

To the Accreditation Council
of the Eurasian Center for
Accreditation and Quality Assurance
in Education and Health Care
June 20, 2024

REPORT
OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF
THE EVALUATION OF THE EDUCATIONAL PROGRAM
7R01103 "PULMONOLOGY FOR ADULTS, CHILDREN"
OF THE RSE ON THE REM "NATIONAL SCIENTIFIC CENTER OF
PHTHISIOPULMONOLOGY OF THE REPUBLIC OF KAZAKHSTAN"
FOR COMPLIANCE WITH THE STANDARDS FOR ACCREDITATION
OF POSTGRADUATE EDUCATION PROGRAMMES (RESIDENCY
SPECIALTY) OF MEDICAL EDUCATIONAL ORGANIZATIONS

Period of external expert evaluation: June 11 - June 13, 2024

Almaty, 2024

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LIST OF SYMBOLS AND ABBREVIATIONS

| Abbreviation | Designation |
|-------------------------|---|
| EEC | External expert commission |
| ECAQA | Eurasian Centre for Accreditation and Quality Assurance in Education and Health Care |
| RSE on REM "NSCP RK" | Republican State Enterprise on the Right of Economic Management "National Scientific Centre of Phthisiopulmonology of the Republic of Kazakhstan" |
| MOH RK | Ministry of Health of the Republic of Kazakhstan |
| PHC | Primary Health Care |
| NJSC "KazNMU" | Non-profit Joint-Stock Company "Kazakh National Medical University" |
| NEI "KRMU" | Non-state Educational Institution "Kazakh-Russian Medical University" |
| ASIAME | Almaty State Institute of Advanced Medical Education |
| SCES | State Compulsory Educational Standard |
| MDR TB | Multidrug-resistant tuberculosis |
| GP | General practitioner |
| EMA | Educational and Methodological Association |
| FSC | Final state certification |
| WHO | World Health Organization |
| PE | Postgraduate education |
| CPE | Continuous professional education |
| EP | Educational program |
| Academic staff | Academic staff |
| LSI | Laws and Statutory Instruments |
| TC | Typical curriculum |
| IWS | Independent work of the student |
| IWST | Independent student work with a teacher |
| EMCD | Educational and methodological complex of disciplines |
| HEI | Higher educational institution |
| UPHE | Unified portal of higher education |
| GF PIG | Global Fund grant project implementation group |
| NCTP | National Centre for Tuberculosis Problems |
| JSC | Joint-stock company |
| PA | Public association |
| NGO | Non-governmental organizations |
| NCPH | National Centre for Public Health |
| NPC SEEM | Scientific and Practical Centre for Sanitary-Epidemiological Expertise and Monitoring |
| TBL | Team based learning (team learning method) |
| CBL | Case based learning (learning based on a clinical case) |
| BCG | Bacillus Calmette-Guerin |
| HIV | Human immunodeficiency virus |
| PICO | PICO (patient or population, intervention, comparison, outcomes) |
| KPI | key performance indicators |
| OSCE | Objective structured clinical examination |
| AIS | Automated information system |

| | |
|-----------------------|--|
| CCES MSHE RK | Committee for Control of Education and Science of the Ministry of Science and Higher Education of the Republic of Kazakhstan |
| STP | Scientific and technical project |
| GPA | Grade point average |
| RBP | Republican budget program |
| ECTS | ECTS (European Credit Transfer and Accumulation System) |
| DET | Distance educational technologies |
| MRI | Magnetic resonance imaging |
| CT | Computer tomography |
| U/S | Ultrasound examination |
| ECG | Electrocardiography |
| FG | Flurography |
| CPR | Cardiopulmonary resuscitation |
| ICT | Information and communication technologies |
| NRTP | National registry of tuberculosis patients |
| SOP | Standard operating procedures |
| MEDIA | Mass media |
| USA | United States of America |
| XUAR PRC | Xinjiang Uyghur Autonomous Region of the People's Republic of China |
| EMC | Educational and Methodological Council |
| AC | Academic Council |
| SCO | Shanghai Cooperation Organization |
| Research Institute | Research Institute |

1. Composition of the External Expert Commission

In accordance with the ECAQA Order No. 22 dated May 30, 2024, the External Expert Commission (hereinafter referred to as the EEC) was formed to conduct an external evaluation of the educational program of residency in the specialty 7R01103 " Pulmonology for adults, children" during the period from June 11-13, 2024, in the following composition:

| № | Status in the EEC | Full name | Academic degree/title, position, place of work/place of study, year, specialty |
|----------|--------------------------|--|---|
| 1 | Chairman | IMASHEVA BAGDAT SAKENOVNA | Doctor of Biological Sciences, Professor, Head of the Science and Education Department of the National Centre for Children's Rehabilitation of the Ministry of Health of the Republic of Kazakhstan, Member of the EMA in the direction of: "Healthcare", Scientific Editor of the Journal "Central Asian Bulletin of Medical Rehabilitation" |
| 2 | Foreign Expert | RYZHKIN SERGEY ALEKSANDROVIC H | Corresponding Member of the Academy of Sciences of the Republic of Tatarstan, Doctor of Medical Sciences, Head of the Department of Radiology, Radiotherapy, Radiation Hygiene and Radiation Safety named after Academicians A.S. Pavlov and F.G. Krotkov of the Russian Medical Academy of Continuous Professional Education (Moscow, Russian Federation), Scientific Secretary of the Division of Biological and Medical Sciences of the Academy of Sciences of the Republic of Tatarstan, Accredited Expert of the Federal Education and Science Supervision Service |
| 3 | National Academic Expert | KURMANOVA ALMAGUL MEDEUBAYEV NA | Doctor of Medical Sciences, Professor, Professor of the Department of Clinical Disciplines NJSC "Al-Farabi Kazakh National University" |
| 4 | National Academic Expert | RAMAZANOV A SHOLPAN KHAMZAEVN A | Candidate of Medical Sciences, Associate Professor of the Department of Children's Diseases named after N.A. Barlybaeva of the NJSC "Kazakh National Medical University named after S.D. Asfendiyarov" |
| 5 | National Academic Expert | BUGAKOV ANATOLY ALEKSEEVIC H | Candidate of Medical Sciences, Associate Professor, Head of the Department of Phthysiology of the NJSC "Astana Medical University" |
| 6 | National Academic Expert | IZTLEUOV YERBOLAT MARATOVIC H | Candidate of Medical Sciences, Head of the Department of Radiology of the NJSC "West-Kazakhstan Medical University named after M. Ospanov", member of the Local Ethics Commission on Research Work, internal auditor of the quality management service |
| 7 | Expert-Employer | UTESHEVA GULMIRA SAYINBAEVNA | Head of the Department of Science and Professional Development of the RSE on the REM "National Centre for Public Health |

| | | | |
|---|-----------------|--|--|
| | | | Development" of the Ministry of Health of the Republic of Kazakhstan |
| 8 | Expert-listener | TERTYUBAEVA ZHAZIRA ORUMBEOVN A | Director of the Department of Postgraduate Education and Regional Development of the LLP "International Institute of Postgraduate Education" |

The EEC report contains a description of the results and the conclusion of the external evaluation of the residency educational program in the specialty 7R01103 " Pulmonology for adults, children" for compliance with the Accreditation Standards of postgraduate education programs (residency specialty) of medical educational organizations and conclusions (hereinafter referred to as the Accreditation Standards), EEC recommendations for further improvement of approaches and conditions for the implementation of the above-mentioned educational program and recommendations for the ECAQA Accreditation Council for Accreditation.

2. General part of the final report

2.1 Presentation of the residency educational program in the specialty 7R01103 "Pulmonology for adults, children"

| | |
|--|---|
| Name of the organization, legal form of ownership, BIN | National Scientific Centre of Phthisiopulmonology of the Republic of Kazakhstan, Republican State Enterprise on the Right of Economic Management, 020340004264 |
| Managing body | Supervisory Board |
| Full name of the first director | Adenov Malik Moldabekovich |
| Date of establishment | 1932 |
| Location and contact details | 050100, Almaty, Bekkhozhin St., 5 |
| State license for educational activities in residency (date, number) | License for educational activities KZ02LAA00009671, issued by the Committee for Control of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan on July 4, 2017 |
| Information on branches, subsidiaries (if any) | no |
| Year of commencement of the accredited educational program (EP) | Planned from 2024 |
| Duration of study | 2 |
| Total number of graduates since the beginning of the EP | - |
| Number of residents in the EP since the beginning of the current academic year | - |
| Full-time teachers/part-time workers involved in the implementation of the EP | Total number of teachers - 8, including full-time - 8, part-time - no. Sedateness, % - 50% Categorization, % - 100% |
| Website Instagram Facebook with active pages | https://www.nncf.kz https://www.instagram.com/nncf_mz_rk/ https://www.facebook.com/nncf.kz |

The National Scientific Centre of Phthisiopulmonology of the Republic of Kazakhstan (NSCP) is the oldest republican research institution coordinating the phthisiopulmonology service of the country. It was founded in 1932. Over the course of 90 years, a low-power institute has turned into the largest research, organizational, methodological and medical-consultative centre for the fight against tuberculosis. Scientific research was devoted to issues of epidemiology, clinical picture, treatment of tuberculosis in adults and children, which were carried out through complex expeditions to various regions of the republic. In the 2000s, the Scientific Centre for Tuberculosis Problems was engaged in the prevention of occupational diseases, strengthening infection control measures, in connection with which the latest automated supply and exhaust ventilation system was reconstructed, a gateway system was introduced; On the basis of the centre, a faculty for advanced training for phthisiologists and primary health care (PHC) staff was created, the centre becomes a clinical base for the departments of phthisiopulmonology of the Kazakh National Medical University named after S.D. Asfendiyarov and the phthisiology course of the KRMU, ASIAMS. In 2017, the Scientific Centre for Tuberculosis Problems was renamed the "National Scientific Centre for Phthisiopulmonology of the Republic of Kazakhstan" (NSCP). A monitoring and evaluation group was organized at the centre, which carries out annual monitoring of the activities of anti-tuberculosis organizations, the PHC network and departments in all regions.

Currently, the Scientific Centre has 350 beds (150 beds for therapeutic (pulmonary and extrapulmonary tuberculosis), 40 for phthisiopediatrics, 130 for the surgical treatment of tuberculosis, 30 for differential diagnostics), there is an admission and consultation department, anesthesiology and resuscitation departments, departments of radiation, functional and instrumental diagnostics. The centre has modern diagnostic and treatment equipment, introduces minimally invasive methods of tuberculosis treatment into practical healthcare, uses modern diagnostic methods (sequencing, quantiferon test). The staff is represented by 2 professors, 2 doctors of medical sciences, 15 candidates of medical sciences, 1 PhD, 33 masters. The journal "Phthisiopulmonology" is included in the list of journals recommended by the CCES of the MSHE RK.

NSCP RK cooperates with the Global Fund to Fight Tuberculosis, AIDS and Malaria (The GlobalFund), StopTB Partnership, ISTC, KNCV-TB-Plus, Generium, Centre for Global Health and Central Asia Studies at Columbia University, Xinjiang Medical University of PRC; National Centre for Tuberculosis and Lung Diseases (Georgia), Republican Specialized Scientific and Practical Medical Centre for Phthisiology and Pulmonology of the Ministry of Health of the Republic of Uzbekistan, Republican Centre for the Protection of the Population from Tuberculosis of the Ministry of Health and Social Protection of the Population of the Republic of Tajikistan. The Centre implements the following research projects:

1. Evaluation of newly approved drugs in combination regimens for the treatment of multidrug-resistant tuberculosis and fluoroquinolone-resistant tuberculosis (Q) (EndTB Project) (2020-2024);
2. Measuring the rate of isoniazid monoresistance of Mycobacterium tuberculosis in Kazakhstan (Columbia University Project) (2021-2023);
3. Use of BPaLM/BPaL regimens in the treatment of drug-resistant tuberculosis in pilot regions (Global Fund project jointly with KNCV) (2023-2025);
4. Evaluation of the efficacy and safety of modified injection-free short-course treatment regimens in an operational study among patients with RR/MDR-TB in Kazakhstan (a joint Global Fund project with "Partners for Health") (2023- 2025);
5. The impact of the COVID-19 pandemic on tuberculosis epidemiology and response measures in Kazakhstan (a joint Global Fund project with the Kazakhstan Association of Phthisiopulmonologists) (2024-2026);
6. Studying the features of the epidemiology, detection, diagnosis and treatment of tuberculosis in children in Kazakhstan (a joint Global Fund project with the Kazakhstan Association of Phthisiopulmonologists) (2024-2026);
7. Analysis of the efficacy of new DR-TB treatment regimens in the Republic of Kazakhstan (a

joint Global Fund project with the Kazakhstan Association of Phthiopulmonologists) (2024-2026);

8. Expanding global knowledge of tuberculosis by establishing the Kazakhstan TB Portal (International Scientific and Technical Center) (2023);

9. Study of the effectiveness of the standard dilution of the use of recombinant tuberculosis allergen (Diaskintest) in the diagnosis of tuberculosis infection in adolescents (JSC Generium) (2019-2023).

As part of the implementation of the Comprehensive Plan of the National Research Centre for Tuberculosis, the incidence of tuberculosis over the past 10 years has decreased by 2.3 times (from 105.3 in 2009 to 35.7 per 100 thousand population in 2020), the mortality rate has decreased by 6 times (to 1.9 per 100 thousand population). For the early detection of tuberculosis at the level of anti-tuberculosis organizations, as well as in the primary health care network, modern diagnostic methods have been introduced that make it possible to detect the presence of tuberculosis within 2 hours. Kazakhstan is one of the few countries that has provided free access to adequate treatment for patients with multidrug-resistant tuberculosis: in 99.6% of cases with the World Health Organization (WHO) standard - 85%. Innovative approaches to the treatment of tuberculosis are being introduced using new drugs, including short-term tuberculosis treatment regimens with new and repurposed drugs, which are highly effective and make it possible to achieve a complete cure for tuberculosis. The effectiveness of treatment of patients with tuberculosis in the country is one of the highest in the world - in 2020, among newly diagnosed patients with susceptible tuberculosis, it was 87.5% (WHO standard - 85%), and multidrug-resistant tuberculosis (MDR TB) - 82.5% (WHO standard - 75%).

The NSCP has developed 35 informal education programs, 15 advanced training courses, 4 certification courses, 3 residency educational programs.

The requirements for the level of training of residency graduates in the specialty 7R01103 "Pulmonology for adults, children" are formulated in the educational program in accordance with: State Compulsory Educational Standard of the Republic of Kazakhstan for residency in the specialty "Pulmonology for adults, children", approved by the order of the Minister of Health of the Republic of Kazakhstan dated July 4, 2022 No RK MOH-63; Order of the Ministry of Health of the Republic of Kazakhstan "On approval of the Rules for training medical personnel in internship and the Rules for training medical personnel in residency" dated September 18, 2018 No RK MOH-16.

Residency training in the specialty 7R01103 "Pulmonology for adults, children" is carried out full-time, the term of study is 2 years. According to the State Compulsory Educational Standard, the educational program for training residents is designed for 140 credits - major disciplines: compulsory component - 132 credits, elective component - 4 credits, midterm certification - 2 credits, end-of-course assessment - 2 credits.

2.2 Information on previous accreditation

Until now, accreditation of the educational program 7R01103 "Pulmonology for adults, children" has not been carried out.

2.3 Brief description of the results of the analysis of the self-assessment report of the educational residency program in the specialty 7R01103 "Pulmonology for adults, children" for compliance with the Accreditation Standards of postgraduate education programs (residency specialty) of medical educational organizations and conclusions on the completeness

The self-assessment report of the educational residency program in the specialty 7R01103 "Pulmonology for adults, children" (hereinafter referred to as the report) is presented on 132 pages of the main text, 9 annexes on the relevant standards, electronic versions of documents located at the Google Drive link <https://www.nncf.kz>

The report is characterized by the completeness of answers to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for conducting self-assessment of the educational program provided to the educational organization by the accreditation centre - ECAQA. The report is accompanied by a cover letter signed by Director Adenov Malik Moldabekovich, who confirms the accuracy of the quantitative information and data

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 program - Ryskulov Galymzhan Pernebekovich, Acting Deputy Director.

The self-assessment of the educational program 7R01103 "Pulmonology for adults, children" was carried out on the basis of Order No. 90-o dated March 6, 2024 "On the establishment of a commission for institutional and specialized accreditation and approval of responsible persons."

All standards provide principles for training residents in the specialty 7R01103 "Pulmonology for adults, children" taking into account the planning of admission of students in 2024, examples of the implementation of the objectives of the educational program, national and international events, methodological support, confirming compliance with the requirements of accreditation standards. The description in the self-assessment report is quite complete and updated in terms of the number of teachers, administration, information on selection and admission, training results, knowledge and skills assessment results, material and technical base of the university and clinical sites, contractual obligations with partners (universities, associations, bases), financial information, development and improvement plans

The report is submitted to the ECAQA in its final form, with data adjustments based on the above recommendations, the wording for each standard is clear and understandable and is described in accordance with the criteria of the standards, tables and figures contain references in the text and are numbered sequentially.

3. Description of the external expert evaluation

The external expert work within the framework of the evaluation of the educational program 7R01103 "Pulmonology for adults, children" was organized in accordance with the Guidelines for the external evaluation of educational organizations and educational programs of the ECAQA / Dates of the visit to the organization: June 11-13, 2024. The sequence of the visit over 3 days is presented in detail in Annex 3 to this report.

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

- interviews with management and administrative staff - 19 people;
- interviews with students and graduates of advanced training programs - 3;
- studying the website <https://www.nncf.kz>
- interviewing heads of structural divisions - 11, teachers / mentors - 31;
- surveying teachers - ;
- observing the training of students: attending practical classes for students
- *Topic: Laboratory methods for detecting TB. Invasive diagnostic methods used in phthisiology. Teacher: Chingisova Lyailya Tursynbekovna.*
- *Topic: Early detection, diagnosis and prevention of tuberculosis in the primary health care network. Teacher: Sidorenko Olga Albertovna;*
- review of resources in the context of fulfilling accreditation standards: 1 practice / clinical training base was visited; Scientific Centre for Pediatrics and Pediatric Surgery, where training is conducted on 3 educational programs with the participation of full-time teachers / part-time workers.
- studying 52 educational and methodological documents both before the visit to the organization and during the visit to the departments (the list of documents reviewed is in **Annex 2**).

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

Table 1 - Information on the number and category of participants in meetings, interviews, and

conversations with members of the EEC

| № | Position | Quantity |
|---|--|----------|
| 1 | NSCP management - Director, Head of Clinical Activities, Chief Researcher, Acting Deputy Director for Economic Affairs, Deputy Chairman of the LEC | 4 |
| 2 | Head of the National Training Centre | 1 |
| 3 | Resident teachers | 31 |
| 4 | Employees of support services - HR department | 2 |
| 5 | Graduates | 5 |
| 6 | Students | 16 |
| 7 | Employers of residency graduates | 19 |

On the last day of the visit to the organization, a meeting of the EEC members was held to discuss the results of the external evaluation. A final discussion was held on the results of the external evaluation of the educational program, the study of documents, the results of the interview, conversations, and questionnaires. The EEC members started drafting the final EEC report. The results of the external evaluation were summarized. The experts individually filled out the "Quality Profile and Criteria for External Evaluation of the Educational Program 7R01103 "Pulmonology for adults, children" for compliance with the ECAQA Accreditation Standards. The recommendations for improving the educational program were discussed and the chairperson, Imasheva Bagdat Sakenovna, held a final open vote on the recommendations for the ECAQA Accreditation Council for the accreditation period of 5 years.

Comfortable conditions were created for the work of the EEC; access to all necessary information and material resources was organized. The Commission notes the high level of corporate culture of the NSCP, the high degree of openness of the team in providing information to the EEC members.

No survey of residents was conducted.

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

4. Analysis of compliance with accreditation standards based on the results of an external evaluation of the educational program of residency in the specialty 7R01103 "Pulmonology for adults, children"

Standard 1: MISSION AND FINAL OUTCOMES

1.1 Mission statement

In the implementation of the program activities, namely, based on the results of an interview with the first head of the organization, members of the advisory body (Academic Council), in an interview with students and teachers, compliance with the criteria of **standard 1** was established. All participants in the educational process know the mission of the educational program, took part in the formation of proposals for formulating the mission, while the mission was brought to the attention of potential residents through the website <https://www.nncf.kz/korporativnoe-upravlenie>, posted on information boards of the NSCP RK, in social networks, and brought to the attention of teachers and employees of the organization at joint meetings. The strategic plan of the organization for 2022-2026 was reviewed, including such areas as *Improving the quality and availability of medical services, improving the efficiency of the National Scientific Centre of Phthisiopulmonology, Development of human resources*, which confirms the fulfilment of the accreditation standard and demonstrates the goals, objectives and prospects of the organization. The development and approval of the mission of the educational program of the NSCP RK takes place in 2 stages - at the level of the educational and methodological council and the Academic Council. From interviews with students it was established

that teachers inform about the mission, work plans of the educational organization, say where to get the necessary information about the educational program, teachers, training bases.

During the visit to the departments of the educational organization, experts noted the strengths of the educational organization in relation to the accredited educational program:

1. NSCP is the leading republican institution coordinating the entire anti-tuberculosis service of the Republic with the introduction of world achievements and new technologies to combat tuberculosis.

2. Demand for residency graduates, high commitment and continuity of students to this Centre.

3. Highly qualified staff of teachers and mentors implementing residency programs.

4. The research centre has international collaborations that allow for the effective implementation of global achievements and new technologies in the fight against tuberculosis in practical medicine.

The NSCP has departments that are directly related to the educational program 7R01103 "Pulmonology for adults, children" - the department of differential diagnostics, the range of nosologies is represented by non-specific lung diseases in adults - pneumonia, tumours, Besnier-Beck sarcoidosis, lymphadenopathy, bronchiectasis pulmonary disease, pulmonary dissemination of unknown etiology, mycobacteriosis, idiopathic fibrosing alveolitis, tuberculosis of questionable activity, chronic bronchitis, interstitial lung disease. The main areas of graduate competence include patient care, communications and collaborations, safety and quality, public health, research, training and development. Residents will develop specialized skills due to the fact that NSCP is a leading specialized institution providing specialized and highly specialized care in the phthisiopulmonology profile.

The results of the documentation study demonstrate that the mission of the organization and the mission of the educational program 7R01103 "Pulmonology for adults, children", and the educational process is built in accordance with the State Compulsory Educational Standard and current Laws and Statutory Instruments (LSI) in postgraduate education and healthcare.

1.2 Professionalism and professional autonomy

Based on the needs, new educational programs are developed in priority areas of healthcare, master classes are held with the invitation of foreign specialists; NSCP employees participate in conferences, undergo training abroad. The resident doctor undergoes safety training, has access to patients, they are involved in the treatment and diagnostic process on a daily basis, supervise patients in the hospital, manage patients, and carry out diagnostic and therapeutic manipulations.

A meeting with the head of the organization was held to verify **standard 1**. It should be noted that the Director sets the task of training highly professional personnel, has a clear understanding of strategic goals, assesses the needs of healthcare, and works to motivate teachers and students.

1.3 Final learning outcomes

NSCP informs the public about the established final learning outcomes, ensures continuity between the final learning outcomes of the basic medical education programs, internship and educational program 7R01103 "Pulmonology for adults, children". The learning outcomes of the educational program are presented in the passport of educational programs of NSCP and posted on the website [RUS_Pulmonology.pdf \(nncf.kz\)](#). The list of final outcomes (the most common diseases and conditions subject to diagnosis and treatment; practical skills, manipulations, procedures) is reflected in the educational program 7R01103 "Pulmonology for adults, children".

The Academic Policy of the NSCP also stipulates joint meetings with residents of all years of study in the relevant specialty on educational, disciplinary and other work issues. During training at the NSCP, in addition to specialized competencies, a resident physician is instilled with the concept of "professional ethics". Each student entering the NSCP signs an agreement, one of the points of which is the obligation to follow the disciplinary requirements of the "Code of Business Ethics" of the NSCP [Code of Business Ethics - National Scientific Center of Phthisiopulmonology of the Republic of Kazakhstan - Ministry of Health of the Republic of Kazakhstan \(nncf.kz\)](#). The NSCP student has rights and obligations, including compliance with the academic honesty of the student.

The NSCP also guarantees continuity between the final outcomes of residency training and [ECAQA_ Eurasian Center for Accreditation and Quality Assurance in Education and Healthcare](#) 10

subsequent continuous professional development programs. To this end, the NSCP applies a quality assurance system for training based on determining the innovative potential of the educational program and the real value of the knowledge contained at the moment. The latest scientific and practical achievements are reflected in the educational program by inviting experts from leading medical organizations to conduct various seminars and master classes.

1.4 Participation in formulating the mission and final outcomes

The NSCP formulates the mission and determines the final learning outcomes of the program, taking into account proposals from other stakeholders. The final outcomes are communicated to stakeholders by publishing on the NSCP RK website (<https://www.nncf.kz/rezident>).

While developing the mission and final outcomes for postgraduate educational programs, the NSCP RK involves key and other stakeholders by considering the issue of approving the programs at a meeting of the Academic Council of the NSCP RK, which includes representatives of the administration, NSCP RK employees, as well as representatives of the Association of Phthysiopulmonologists, employees of universities - employees of KazNMU, specialized specialists in pulmonology, radiology and bacteriology.

Review and approval of the mission and final outcomes of educational programs at a meeting of the Academic Council of the NSCP RK (additional education courses are reviewed and approved at a meeting of the EMA of Health).

NSCP demonstrates a desire to meet state requirements in the field of medical education reform, international accreditation standards.

Conclusions of the EEC on the criteria. Comply out of 14 standards (including 9 basic, 5 improvement standards): fully - 14, partially - 0, do not comply - 0.

Standard 2: EDUCATIONAL PROGRAMME

2.1 Framework parameters of the postgraduate medical education program

In order to ensure the systematic acquisition of knowledge, NSCP plans to use a model of a competency-oriented approach to training residents, including basic and specialized competencies.

The developed educational programs undergo internal and external examination for compliance with LSI, are approved by the Academic Council, and are posted in the Register of educational programs.

NSCP RK has a State License for educational activities in the direction of "Residency" on July 4, 2017 (<https://www.nncf.kz/informaciya-o-centre>). In 2019, it received a certificate of institutional accreditation for compliance with the standards of additional education (<https://www.nncf.kz/informaciya-o-centre>).

In-depth study of disciplines by residents is achieved through the choice of elective disciplines, academic mobility in other universities of the Republic of Kazakhstan, participation in domestic and international conferences.

To implement the educational program in the specialty 7R01103 "Pulmonology for adults, children", the organization's documents contain educational and methodological complexes, which define the goal, take into account the integration of practical and theoretical components, and independent work. Compliance with the State Compulsory Educational Standard and standard requirements has been established. The organization ensures compliance with ethical aspects in the implementation of the educational program, since the experts studied the code of honour of 06/18/2020 approval and during the interview, residents responded that they were informed about the content of this document.

Analysis of educational activities showed that the scientific basis and all scientific achievements in the relevant disciplines are taken into account, additions are made to the bibliography of the EMCD and syllabuses, and teachers use them in the classroom.

The procedure for informing residents about their rights and responsibilities is reflected in the Personnel Policy.

This indicates compliance with standard 2 in terms of adapting training to the needs of residents.

2.2 Scientific method

The educational program 7R01103 "Pulmonology for adults, children" provides for teaching methods, both theoretical teaching methods: lectures, seminars, practical classes, presentations; and interactive theoretical teaching methods: case-based learning (CBL), team-based learning (TBL); role-playing games, the "brainstorming" method, the group discussion method, the small group teaching method, presentations.

Students of the educational program of residency in the specialty "Pulmonology for adults, children" will be involved in the implementation of scientific and technical projects carried out on the basis of the NSCP RK. Events on participation in conferences, conducting scientific research are included in the resident's portfolio in order to stimulate the use by residents in their clinical activities of scientific data that they have obtained as a result of research or literature study, participation in scientific conferences.

At the same time, to implement the scientific component, it is necessary to improve the conditions for placing the scientific library, replenish it with educational and scientific literature on the accredited educational program (BS2.2.2).

2.3 Structure, content and duration of the residency program

The educational program of the residency "Pulmonology for adults, children" consists of a cycle of core disciplines of the mandatory component in the amount of 134 credits, an elective component in the amount of 4 credits and a final certification in the amount of 2 credits. The core disciplines of the mandatory component are regulated by the order of the Ministry of Health of the Republic of Kazakhstan "On approval of standard curricula for medical and pharmaceutical specialties".

The structure of the disciplines consists of 10% classroom work (theoretical part), 75% independent work of the resident under the guidance of a clinical mentor (practical part), and 15% independent work. Within the framework of the educational program of the residency in the specialty "Pulmonology for adults, children", at least 12 credits of clinical practice are provided.

The content of the disciplines of the educational program consists of topics aimed at studying the methods of diagnosis, treatment of tuberculosis, compliance with infectious safety of the patient, studying regulatory and legal acts in the field of pulmonology, ethical issues of treatment of diseases of the respiratory system. The teaching methods used in the process of training residents such as PBL, CBL, inter-professional training, training at the patient's bedside contribute to the formation of such skills as decision-making, communication skills, responsibility for one's own health.

In the formation of the topics of the disciplines of the educational program, modern achievements of science in diagnostics, treatment of diseases of the respiratory system, the concept of development of the phthisiopulmonology service of the Republic of Kazakhstan, updated clinical protocols and LSI governing activities in phthisiopulmonology were used.

The safety and autonomy of the patient is supposed to be realized through monitoring of mentors over the practical activities of residents, conducting briefings of students and teachers on infectious safety, on compliance with safety precautions, obtaining informed consent of the patient for medical manipulations by residency students.

The organization has its own clinical base with 350 beds, including 30 beds under the accredited program, contracts have been concluded with medical organizations - the Scientific Centre for Paediatrics and Paediatric Surgery, the Central City Clinical Hospital of Almaty, city polyclinics No. 1, 6; The city polyclinics and the scientific centre have a pulmonologist on staff, who are planned to be involved in teaching residents of the NSCP RK and to ensure access to patients.

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

While forming the content of the educational program, the learning outcomes were taken into account, such as the ability to diagnose and effectively treat respiratory diseases, ensure patient safety, communicate with colleagues, patients and their relatives, study and apply in practice regulatory legal acts in the field of pulmonology, conduct scientific research and speak at meetings

and conferences.

The management of the educational process, reflected in the self-assessment report (**Standard 2**), is assigned to the National Training Centre of the NSCP RK, which was established in 2007, consists of a director, deputy director, manager and methodologist. Planning and implementation of the educational process is carried out by the director and deputy director of the training centre. Conclusion of contracts, organization of training of students is carried out by the manager of the centre. The development of educational and methodological documentation and supervision of the development of the educational program, educational and methodological documentation, the process of evaluating the educational program, the introduction of innovation in the educational process is assigned to the centre's methodologist.

The experts got acquainted with the work of the departments, including the phthiopediatric profile.

The training of residents in the specialty 7R01103 "Pulmonology for adults, children" is aimed at meeting the needs of practical health care, since there is a shortage of pulmonologists. In the future, as the incidence of tuberculosis decreases, the NSCP will shift the priority of providing medical care towards non-specific lung diseases - pulmonology profile.

In the structure of morbidity of the population of the Republic of Kazakhstan, respiratory diseases account for 50%, in connection with which, opportunities are provided for training not only phthiologists residents, but also pulmonologists residents. Residents of the specialty 7R01103 "Pulmonology for adults, children" can supervise patients with diseases such as pneumonia, bronchitis, bronchiectasis, chronic obstructive pulmonary disease.

While interviewing faculty during training, 100% of the questions are analysed, 70% are problem-based learning, 90% are situational tasks.

Conclusions of the EEC on the criteria. Comply with 22 standards (including 19 basic, 3 improvement standards): fully - 22, partially - 1, do not comply - 0.

1) To provide for proper representation of residents in advisory bodies (2.4.4).

Standard 3: RESIDENT ASSESSMENT

3.1 Assessment methods

The policy for assessing the knowledge and skills of residency students is carried out in accordance with the Academic Policy of the NSCP RK and is reflected in the syllabus of disciplines of the residency educational program.

The policy and procedure for assessing learning outcomes within the EP is carried out using criteria developed in accordance with the goals and objectives set for the implementation of the EP and the qualifications awarded within the framework of the current point-rating system for assessing knowledge and monitoring the educational process in accordance with directive, regulatory and internal documents. The policy and methods for assessing residents are reviewed and approved at a meeting of the Academic Council of the NSCP.

Assessment of knowledge and skills of students includes current, midterm and end-of-course assessment. Current monitoring of academic performance on a topic/section of an academic discipline is posted in the electronic journal by the Teacher after each lesson and communicated to the student. Midterm assessment of the student's academic performance is carried out upon completion of a block/part of the discipline program. The end-of-course assessment of the discipline is carried out upon completion of the discipline in order to determine the level of knowledge and skills in the completed discipline. The results of the students' academic achievements are planned to be entered into the Platonus program (as they are acquired). The system of appealing the assessment results is reflected in the Order on the establishment of the appeal commission, the Academic Policy. Thus, to verify the data of standard 3, the experts asked the head of the Training Centre Kaidaulov Mukhtar Kenzhebekovich questions about additional sets of methods and assessment formats. In order to ensure the objectivity and transparency of the knowledge and skills assessment process, checklists have been developed for the skills being formed by residents. Every six months, an interim

assessment will be held to assess the development of skills in the completed disciplines. During the interim assessment, a student is allowed to retake the exam in an academic discipline (module) no more than twice. Retaking is allowed if residents receive less than 50 points or at the request of a resident in order to improve the grade. Upon completion of the entire duration of training, a Final Assessment will be conducted.

The reliability and validity of test tasks before using them with students is checked by the method of expert assessments among teachers of the NSCP RK.

Provide mechanisms for studying and documenting the reliability, validity and fairness of assessment methods (BS 3.1.4). The reliability and validity of assessment methods should be reflected in the reviews of internal and external experts.

3.2 Relationship between assessment and training

One of the assessment methods used in the NSCP RK is the assessment of the formation of a portfolio by residents. The formation of a portfolio contributes to the achievement of not only academic knowledge and skills, but also forms skills in health education work, the development of educational and methodological documentation, participation in scientific projects and conferences, writing theses and articles, and participation in seminars and trainings.

The integration of resident training at the NSCP RK is ensured by a developed database of clinical cases in pulmonology, teachers from practical health care, provision of the educational program with clinical bases with access to patients, the presence of various residency specialties to ensure inter-professional training.

During a visit to the organization, the management was asked the question: "Will external examiners be involved in order to improve the fairness, quality and transparency of the assessment process?" And the answer was yes.

The interviewed employers also pointed out the personnel shortage of pulmonologists, especially during the COVID pandemic; the availability of an opportunity to discuss educational content, as recommendations, employers noted the need to provide for a state order for training in residency, to introduce a certification course for general practitioners.

Conclusions of the EEC on the criteria correspond to 9 standards (including 6 basic, 3 improvement standards): fully - 8, partially - 1, do not correspond - 0.

Recommendations for improvement:

- 1) It is necessary to refine the checklists for conducting current, midterm and end-of-course assessment in the disciplines of the program (3.1.4).
- 2) To develop and apply mechanisms for studying and documenting the reliability, validity and fairness of assessment methods (3.1.4).

Standard 4: RESIDENTS

4.1 Admission Policy and Selection

At the level of the NSCP RK, the Academic Policy defines the policy for the admission of residents. Admission of residency students to the NSCP RK is carried out through the placement of a state educational order, as well as tuition fees from the students' own funds and other sources on a competitive basis based on the results of entrance examinations, in accordance with the admission plan determined by the authorized body in the field of healthcare.

Applicants to residency in the specialty "Pulmonology for adults, children" take a combined exam, which includes 3 sections assessed on a 100-point assessment scale, where 20% is the sum of the GPA for the period of study in the internship + GPA for the period of study in the bachelor's degree; for graduates of previous years who do not have a GPA in the transcript, the average score of the grades in the diploma supplement is calculated with recalculation on a 4-point system. 30% is the result of computer testing on the end-of-course assessment of the outgoing year; 50% is an oral exam on the educational program. The requirement for applicants to gain a passing score is at least 75 points.

The examination questions of the entrance exam in the specialty "Pulmonology for adults, children" include questions on the diagnosis, treatment and prevention of respiratory diseases. The examination tickets for each applicant include 3 questions, including 2 questions on biomedical science and 1 question on pulmonology.

Requirements for the number of residents accepted in order to ensure the quality of education and the capabilities of the NSCP RK. While analysing the capabilities of the NSCP RK, the provision of teachers, mentors, provision of a clinical base with access to patients, the area of auditoriums for conducting classes, provision of textbooks and literature, etc. are taken into account. The accredited organization has not developed documentation indicating the inclusion of residents in the process of developing a policy for the admission and selection of residents.

Thus, the experts validated the data according to **standard 4**. In general, all criteria are met, at the same time, some comments were identified. It is necessary to provide for the inclusion of residents in the process of developing a policy for the admission and selection of residents.

4.2 Number of residents.

For the 2024-2025 academic year, the maximum number of residents accepted in the specialty "Pulmonology for adults, children" has been established - at least 1 qualified teacher per 15 residents. The number of residents in the specialty 7R01103 "Pulmonology for adults, children" is regulated by the State Order of the Ministry of Health of the Republic of Kazakhstan, taking into account the material and technical resources of the NSCP and clinical bases, the provision of educational, educational and methodological, scientific literature.

NSCP RK is the coordinating organization of the Republic of Kazakhstan in the field of phthiopulmonology and has sufficient information on the needs of the regions for pulmonologists. The Centre also effectively interacts with the authorized body in the field of healthcare and local executive health authorities. This allows for a balanced plan for the recruitment of residents in accordance with the needs of cities and villages for practicing pulmonologists.

Taking into account the needs for medical personnel, the NSCP sends a request for the need for scientific and pedagogical personnel and clinical specialties of the residency to the Department of Scientific and Human Resources of the Ministry of Health of the Republic of Kazakhstan. In accordance with the request, the DSHR allocates a State order for the training of medical personnel in residency.

According to the regulations on residency, the number of residents in each specialty per teacher is 3:1. The policy for recruiting residents provides for the implementation of the rights of residents in accordance with gender, ethnic, religious and social characteristics (regulated by the Constitution of the Republic of Kazakhstan, the Laws of the Republic of Kazakhstan on education, on religious activity, on languages).

There were no residents in the specialty 7R01103 "Pulmonology for adults, children".

4.3 Support and counseling of residents

According to the Academic Policy, residents will be provided with counselling of residency students by mentors and employees of the Training Centre. The activities of mentors are coordinated by the Training Centre. Qualified teachers with extensive experience in teaching and clinical work are appointed as mentors.

It is planned to provide social benefits to socially vulnerable categories of residents with good academic performance. The amount and decisions on payments are made at a meeting of the Economic Council of the NSCP RK.

To date, the NSCP RK has developed a Regulation on support and incentives for residents, which defines the types of social, material, academic, and advisory assistance. It is planned to develop a program for social support for residency students after the admission and recruitment of residency students in 2024 (to form a program for the next year, it is necessary to determine the need for individual types of assistance for planning financial resources).

As part of the professional orientation work, the Training Centre plans to:

1) conduct professional information for residents on the state of the labour market in the region, organize seminars, trainings, and meetings with representatives of various professions;

- 2) provide professional advice taking into account individual desires, psychological characteristics of the resident, and the real situation on the labour market;
- 3) determine the availability of vacancies and the need for personnel for the profession chosen by the resident for his further employment using the electronic labour exchange;
- 4) organize job fairs for the employment of residents;
- 6) monitor the movement and career growth of graduates of the NSCP RK.

4.4 Representation of residents

According to the Academic Policy of the NSCP, residents, together with the faculty of the institute, have the opportunity to participate in the formulation of the mission and final learning outcomes, during direct discussion and approval of work programs, at the level of developing an individual work curriculum and elective disciplines. For this purpose, the NSCP has implemented surveys that include questions on the schedule, teaching and assessment methods, training conditions in clinics, provision of methodological and information and communication materials, and relationships with teachers. Based on the results of the survey of residents, plans for corrective measures were developed, a proposal was made on the need to provide greater independence and require greater activity during duty and in everyday activities at the clinical site.

The NSCP has mechanisms to encourage residents to participate in the public and scientific life of the NSCP or outside it; they are encouraged when reviewing portfolio materials in the form of awards, participation in national and international conferences, master classes and trainings, publication of joint scientific papers, participation in scientific research conducted at the department.

4.5 Working conditions

Residents are annually granted a vacation between academic years lasting at least 6 weeks, after the final state certification lasting at least 4 weeks with the retention of the scholarship. Combining study with work (no more than 0.5 rate) in areas of activity close to his future specialty in his free time with the consent of the curator, head of the department and the residency sector. In the presence of a specialist certificate, residents of the 2nd and 3rd years of study are allowed to carry out independent medical activities in public and private medical institutions, outside of school time.

Conclusions of the EEC on the criteria. Compliant out of 20 standards: fully - 19, partially - 1, do not comply - 0

Recommendations for improvement:

- 1) To provide for the inclusion of residents in the process of developing admission policies (4.1.6).
- 2) To ensure adequate representation of residents in advisory bodies (4.4)

Standard 5: ACADEMIC STAFF

5.1 Admission and selection policy

The NSCP RK has developed, approved and implemented a personnel policy ([link: https://drive.google.com/file/d/1kPckKZMxt2nkZMwt5QazP2jnpHvDvLvg/view?usp=drive_link](https://drive.google.com/file/d/1kPckKZMxt2nkZMwt5QazP2jnpHvDvLvg/view?usp=drive_link)) for the recruitment, hiring and motivation of teachers and clinical mentors, aimed at ensuring the required number of teachers in the relevant area of training.

The need for teachers is determined on the basis of the implemented educational programs and regulatory legal acts governing activities under postgraduate education programs and CPD. The minimum number of teachers for the implementation of residency educational programs is determined: 1 teacher with a degree and 1 teacher with the highest category per 1 group.

Teachers are hired in accordance with the requirements of the Decree of the Government of the Republic of Kazakhstan dated 17.02.2012 No. 230 "On approval of the Rules for competitive replacement of positions of professors, teaching staff and research workers of higher educational institutions", the order of the Minister of Education and Science of the Republic of Kazakhstan dated July 13, 2009 No. 338 "On approval of standard qualification characteristics of positions of teaching staff and persons equivalent to them". Based on the "Regulations on the curator of residents", the

curator must have an academic degree of doctor, candidate of medical sciences, PhD or the highest or first category qualification, actively engaged in scientific and practical activities.

In order to increase the motivation of teachers, the Training Centre has developed and approved the Program for the Development of Teachers and the Regulation on the system of key performance indicators of the Academic staff. Incentives for teachers to implement postgraduate education will be provided in accordance with the regulations on paid services (teachers are paid at least 20% of their income), regulations on KPI (it is planned to provide for payments to teachers who have achieved high results in KPI activities), regulations on stimulating scientific results.

In order to ensure sufficient time for teaching, the Training Centre will annually calculate the average teaching load of Teachers and mentors in accordance with the Regulation on the teaching load of teachers of the NSCP RK.

5.2 Obligations and development of teachers

In order to ensure sufficient time for teaching, the Training Centre will annually calculate the average teaching load of Teachers and mentors in accordance with the Regulation on the teaching load of teachers of the NSCP RK.

According to the regulation, the average annual workload of residency teachers who are full-time employees on 1 rate is set at 1664 hours, of which 40% of the time is allocated to the teaching load - 680 hours (classroom classes, IWST, IWS), 20% methodological work - 328 hours, 20% research work - 328 hours, 20% educational work - 328 hours. In order to verify the data of standard 5, at a meeting with the head of the HR department and during interviews with teachers, experts received an opinion on approaches to the development of pedagogical competence of teachers, motivation to work with residents, and mentoring. Thus, the NSCP has a policy for the professional development of the department staff - Advanced training in the relevant specialty in the amount of 120 hours, in pedagogy in the amount of 120 hours, Development of language competencies (study of English)

Experts have found that teachers stimulate the need for additional training and independent work with literature, medical documentation. The NSCP has an employment contract, a system of moral motivation in accordance with the Labour Code of the Republic of Kazakhstan, payment of incentive bonuses to personnel, incentives for teaching staff for special personal merits and achievements, and additional types of incentives are also used: gratitude, valuable gifts, awarding of a certificate of honour; nomination for titles, medals and badges of the Ministry of Health and the Ministry of Education and Science of the Republic of Kazakhstan.

At the same time, it is recommended to develop a program for the development of professional and pedagogical competencies of mentors.

Conclusions of the EEC on the criteria. Compliant with 8 standards (including 7 basic, 1 improvement Standard): fully - 7, partially - 1, do not comply – 0.

Recommendations for improvement:

1) To develop a program for the development of professional and pedagogical competencies of teachers and mentors (5.2.2).

Standard 6: EDUCATIONAL RESOURCES

6.1 Material and technical support and equipment

The material and technical base of the NSCP RK includes lecture halls, classrooms, a library, information technology, clinical bases (differential diagnostics department, radiation, instrumental, functional diagnostics department), Almaty City Polyclinic No. 6, Almaty City Polyclinic No. 1, Scientific Centre of Paediatrics and Paediatric Surgery).

The total number of classrooms has increased by 60% since 2019 and currently amounts to 201 m², the small and large conference rooms are equipped with stationary multimedia projectors, and the classrooms are designed for 8 to 30 seats.

The safety of the students, residents and teachers present during the practical training is ensured by safety and biosafety briefings, mandatory medical examination. All participants in the educational

process are informed about the existing instructions and rules for observing safety precautions before the start of the lesson with the signature of each student in the corresponding journal. To ensure the infection safety of students, all classrooms and auditoriums are located in a clean zone.

For the continuous improvement of the material and technical base, the necessary funds are allocated from the budget, which are spent on: major and current repairs, technical equipment of educational, scientific and information activities, the purchase of furniture and educational equipment; ongoing work is underway to improve IT technologies and infrastructure (new computers, printers, scanners are purchased). Uninterrupted operation of the Internet is ensured, a local computer system and a video broadcasting system in conference rooms (telemedicine) have been created. It is planned to purchase mannequins and simulators, install the latest medical equipment and technologies (MRI, CT) when moving to the new Centre. At the same time, it is necessary to develop simulation educational resources. *For this purpose, provide access to international sources and equipment, subscriptions to electronic educational resources (BS6.1.1).*

6.2 Clinical bases

The NSCP RK is the leading Republican centre for phthisiopulmonology and strives to become a flagship in the transfer of innovative technologies to medical organizations of the country. The clinical base and material and technical base of the NSCP RK contribute to the effective implementation of the educational residency program in the specialty "Pulmonology for adults, children". The structure of the NSCP RK includes the Department of Differential Diagnostics and Treatment of Patients without Bacteriological Isolation No. 4, the Department of Radiation, Instrumental, and Functional Diagnostics. All teachers of the NSCP RK are provided with access to patients of the pulmonology (Department of Differential Diagnostics), radiology (Department of Radiation Diagnostics) profile. The clinical departments of the NSCP RK have access to bacteriological and PCR diagnostic methods (G-Xpert/Ultra; HAIN-Bioneer test), culture methods (BACTEC Mgit-960, sowing on the Lowenstein-Jensen medium), sequencing, devices for bronchoscopy and gastroscopy, FG and X-ray machines, CT, ultrasound, ECG.

The opportunity to provide specialized and highly specialized medical care to the population by the Institute's employees allows resident doctors to participate in clinical, consultative and methodological assistance to specialists from the regions, to participate in interdisciplinary consultations and master classes.

A review of resources showed that they generally correspond to the goals and objectives of educational activities, and the employees of the educational organization ensure collegial and ethical relationships with medical personnel, the management of the clinical base to achieve the final results of residents. During the visit to the clinic, the experts examined the resources, their compliance with the training programs, and accessibility for teachers and residents, how modern this equipment is and how it meets the needs of students and practical healthcare. The experts received evidence of compliance with standard 6, as well as validation of the data from the self-assessment report.

At the same time, training in the Simulation Centre should be included as an integrated part of the educational program 7R01103 "Pulmonology for adults, children" (BS 6.2.2).

In order to validate the implementation of the self-assessment report data and obtain evidence of the quality of the programs, interviews were conducted with students. The experts asked questions about satisfaction with training, satisfaction with teaching methods and qualifications of teachers, and the availability of resources of international databases of professional literature. In general, students are satisfied with the training, assessment methods, and purposefully entered this organization, as they believe that the educational organization has good resources, image, and international connections.

The students demonstrated their commitment to the organization of education, were active in answering questions from external experts, demonstrated their opinions on the organization of training, assessment of their skills, advisory support, the opportunity to participate in research and development, and financing.

6.3 Information technology

The library's reference and bibliographic apparatus consists of alphabetical, systematic, and

subject catalogues. The library's collection contains 158 textbooks.

NSCP RK has agreements on mutual cooperation in the field of library and information services: NJSC "KazNMU named after S.D. Asfendiyarov" (agreement number 228 - P dated August 3, 2023); NEI "Kazakhstan-Russian Medical University"; NJSC "Republican Scientific and Technical Library" (agreement No. 33 dated February 23, 2022).

NSCP RK has free electronic access to the unified bibliographic and abstract database Scopus (<https://www.scopus.com/home.uri>) and the full-text database (<https://www.sciencedirect.com/>).

In order to ensure high-quality work of residents in obtaining the necessary scientific data and literature sources, a computer room with Internet access has been opened at NSCP RK. The computer room has 5 working computers for residents, from where they can access international databases.

Today, the centre has telemedicine equipment, the Moodle e-learning system, e-books, educational videos, and the Platonus automated information system with the ability to test residents.

6.4 Clinical teams

The NSCP RK plans to launch residency programs in three specialties: "Phthiology for adults, children", "Pulmonology for adults, children", and "Radiology". This allows the NSCP RK management to create inter-professional teams during the training process with the participation of residents of different but interrelated specialties. The creation of inter-professional teams should help residents develop skills in solving professional problems, communication, and analytical skills. It is planned to train residents through their participation in consultations, a centralized medical advisory commission, which will help residents develop expert skills in solving complex situations in phthiopulmonology.

6.5 Medical scientific research and achievements

As part of the disciplines of the compulsory component, the residency student conducts scientific research, based on the results of which he publishes an article in scientific journals. The student's work, the research conducted according to scientific methodology, are checked and assessed by the Training Centre during the session. In the elective component, residents are offered a discipline to develop skills in evidence-based medicine.

From 2019 to 2023, the Centre carried out 6 scientific and technical programs and projects, operational research, which were financed from the Global Fund, the END TB project. The Academic staff involved in the implementation of the residency program in the specialty "Pulmonology for adults, children" published 57 articles, including in publications indexed in the Web of Science and / or Scopus systems, 4 security documents.

6.6 Expertise in the field of education

After the launch of the residency, it is planned to develop scientific and technical projects in the field of improving educational activities in the specialty "Pulmonology for adults, children". In order to increase the motivation of teachers to engage in scientific research, the NSCP RK has developed a Regulation to stimulate employees who publish scientific articles in journals recommended by the CCES of the MSHE RK and international peer-reviewed journals. It is planned to introduce KPI indicators for teachers, where one of the indicators is participation in scientific and technical progress.

As a result of the work carried out on expertise in the field of education, the NSCP has introduced relevant innovations in the educational process, which allow for the development of broader and more specialized competencies.

6.7 Training in other institutions

According to the policy, before the start of the academic mobility procedure, the National Training Centre will determine to what extent the disciplines offered by the host university for study correlate with the curriculum for a similar period of study. If the program is compliant, the Training Centre forms a committee and holds a competition for the academic exchange of the residency student. The main criteria for the competitive selection are: completion of one academic semester at the NSCP RK, GPA above the established score, and good proficiency in the relevant foreign language (a certificate of passing a foreign language test is preferable).

To date, the NSCP RK has agreements with 10 organizations in the field of science and

education (5 foreign and 5 domestic).

Conclusions of the EEC on the criteria. Compliant out of 18 standards (including 11 basic, 7 improvement standards): fully - 16, partially - 2, do not comply - 0

Recommendations for improvement:

- 1) To provide residents with access to the latest literature, subscriptions to electronic resources, international sources and equipment for theoretical training and mastering practical skills. To provide a safe environment for self-education (6.1.1).
- 2) To implement the program 7R01101 " Phthisiology for adults, children", it is necessary to provide access to laboratory and instrumental diagnostics of patients, improve the material and technical base, include training using simulations as an integrated part of the educational program (6.2.2).
- 3) To create the necessary conditions for placing a scientific library, regularly replenish the library with modern educational and scientific literature on phthisiology based on an analysis of needs, feedback from teachers and residents (6.3).

Standard 7: EVALUATION OF THE EDUCATIONAL PROGRAMME

7.1 Monitoring and evaluation mechanisms

In order to implement the policy on evaluating the educational program, the head of the training centre creates a commission for assessing the quality of the educational program. The assessment includes the following criteria: compliance of the passport, structure, content of the educational program and teaching methods with the requirements of LSI, determination of learning outcomes, availability of modular training principles, availability of a university component and an optional component, compliance with the balance of components (classroom classes, IWST, IWS). The achievability of learning outcomes and their description in the form of knowledge, skills and abilities, teaching methods and assessment policy, adequacy of human resources, adequacy of material and technical resources, availability of international cooperation, participation of stakeholders in the development of educational programs are also taken into account.

The results of the quality assessment of educational programs are reported by the chairman of the assessment commission at the level of the Educational and Methodological Council and the Academic Council of the NSCP RK. The decisions taken are formalized in the minutes of the Academic Council and measures are taken to improve the educational programs. The final outcomes of monitoring the implementation of the educational program of residency in specialty 7R01103 "Pulmonology for adults, children" will be: compliance of the educational program with the qualification characteristics of levels 7.1.C-7.2 B within the industry qualification framework; employment, compliance of the material and technical base, content of educational and methodological support for achieving the final results.

7.2 Feedback from teachers and residents

The NSCP has developed a feedback collection policy. Thus, it provides for the collection of feedback on the quality of the educational program - assessment of student satisfaction (organization of the learning process, teacher qualifications, satisfaction with the theoretical part and practical part of the programs and overall satisfaction), recommendations and suggestions for improving the programs.

Motivating teachers and residents to participate in the activities to evaluate the educational program is carried out through various mechanisms:

- the resident's portfolio includes an event on participation in the work of the commission on evaluating the quality of programs. This helps to stimulate residents to contribute to the improvement of the educational program; the list of KPI events includes an event on the participation of teachers in the work of the commission on assessing the quality of programs, which will facilitate the participation of NSCP RK teachers in evaluating the educational program.

7.3 Results of residents and graduates

During the training of residents in the specialty "Pulmonology for adults, children", the educational achievements of residents will be constantly monitored. For this purpose, the automated information system "Platonus" has been implemented and it is planned to create a full-time position for an office registrar specialist. Residents' grades received during training will be posted weekly in an electronic journal. The completion of the journals will be monitored by an office registrar specialist.

Evaluation of the mastery of clinical skills of residents will be monitored by clinical mentors and teachers. Upon completion of clinical practice, residents submit practice diaries to the training centre, signed by a mentor and a teacher, which will be the basis for evaluating the quality of training of residents for the training centre.

7.4 Involvement of stakeholders

Evaluation of the educational program at the NSCP RK is carried out by a specially created commission, which includes teachers, residents and administrative staff.

Clinical mentors and employers are involved in the evaluation of individual courses and practices of residents.

The training centre provides access to the results of the evaluation of educational programs to the certification, accreditation, pre-licensing control commissions, authorized bodies for the evaluation of the quality management system in the educational process.

The interview with employers was conducted online and included questions such as: knowledge of the university mission, participation in the development of the mission and proposals for the strategic plan.

7.5 Procedure for approval of educational programs

The educational program of the residency is approved at the level of the Academic Council of the NSCP of the Republic of Kazakhstan. The educational program of the residency in the specialty "Pulmonology for adults, children" was approved by the Protocol of the Academic Council No. 4 dated December 13, 2023.

After consideration at the meeting of the Academic Council, the educational program of the residency is included in the register of educational programs of the Ministry of Health of the Republic of Kazakhstan.

While developing the educational program, the Training Centre evaluates the quality and compliance of the material and technical base, clinical base, equipment and other educational programs using an assessment sheet.

In accordance with the standard, it is necessary to provide for the approval of training in the simulation centre.

Conclusions of the EEC on the criteria. Compliant with 10 standards (including 7 basic, 3 improvement standards): fully - 9, partially - 1, do not comply - 0

Recommendations for improvement, identified during the external visit:

- 1) To integrate training in the simulation centre into the educational program (7.5.1).

Standard 8: MANAGEMENT AND ADMINISTRATION

8.1 Management

Implementation of the educational program of residency in the specialty "Pulmonology for adults, children" is carried out in accordance with the LSI governing educational activities

According to the requirements, students who have successfully completed training in the residency programs, the NSCP RK issues a certificate of completion of residency with an appendix indicating the completed disciplines, practices and grades for midterm and end-of-course assessment.

In postgraduate education, a log of attendance and a transcript of training will be kept in the Platonus information system. A statement is generated for each discipline. Documentation of the residency student's practice is carried out through a practice diary, which is signed by both the residency student and the mentor.

In order to ensure proper management, planning and organization of the training process for students, the NSCP RK developed and approved at a meeting of the Academic Council of the NSCP RK the Policy of Internal Quality Assurance in the field of education. It is planned to implement the Internal Quality Assurance Policy after the launch of the residency. To date, in order to ensure the quality of the educational program, the educational program "Pulmonology for adults, children" has been developed taking into account the opinions of stakeholders; an evaluation of the material, technical, personnel and other capabilities of the centre for the launch of the residency has been carried out; fundamental internal documents for the implementation and monitoring of the educational program have been developed; educational and methodological documentation for the implementation of the educational program has been developed; the purchase of additional textbooks in the specialty "Pulmonology for adults, children" is planned; agreements have been concluded with the clinical bases of the NSCP RK.

For the purposes of effective management, the educational process is divided into processes and sub-processes with the definition of those responsible for each process. The educational process is managed by the Training Centre, which closely interacts with the faculty, the state procurement department of the NSCP RK, the accounting and reporting department, the HR department, the office registrar, the library, and clinical bases in the process of organizing training.

8.2 Academic leadership

The National Scientific Centre of Phthisiopulmonology of the Republic of Kazakhstan of the Ministry of Health of the Republic of Kazakhstan is a leader in coordinating the phthisiopulmonology service of the Republic of Kazakhstan and providing highly specialized care.

Fundamental issues of quality in the educational program for the specialty are submitted for discussion to the Academic Council, which is a tool for ensuring the transparency of the management system and decisions made on the educational program.

The compliance of the faculty with the goals and objectives of the educational programs is analysed based on the results of reporting activities, certification of the Academic staff annually. The results of academic activities, the effectiveness of modern forms of management of the educational process, prospects for further improvement of management and enhancement of the quality of education are considered and discussed in the final reports of the First Head and key structural divisions at the Academic Council.

8.3 Budget for training and distribution of resources

In the NSCP RK, the definition of the main priorities for spending funds is approved by the Supervisory Board. The annual implementation of the financial and economic activity plan based on the results of the financial year is submitted for consideration to the Supervisory Board meeting.

In order to implement contractual obligations with Customers, the Training Centre directly interacts with the accounting and reporting department and jointly ensures the timely issuance of certificates of completion of work and an invoice under the contract. The Planning and Economic Analysis Department annually collects applications for the purchase of goods that support the implementation of the educational program. At the end of each year, the Library forms an application for the purchase of educational and methodological literature for the purchase of the necessary literature for the implementation of educational programs.

8.4 Administration and Management

The academic leader for educational activities is the head of the Training Centre. The staff of the Training Centre consists of the head of the training centre, deputy head, methodologist and manager.

To implement the EP, qualified faculty members are involved who meet the requirements of the Law of the Republic of Kazakhstan "On Education", the State Compulsory Standard of Residency Programs, and the Academic Policy. The strategic plan defines the main indicators of achievement in additional and informal education. A structural unit responsible for planning, implementation and monitoring of educational programs has been created. At the same time, it is necessary to develop a quality management system, including regular internal and external reviews and audits.

8.5 Requirements and regulations

While planning, developing and implementing educational programs for residency, the NSCP RK follows the recommendations and requirements of: the Code on Public Health and the Healthcare System; the Labour Code of the Republic of Kazakhstan; the Law of the Republic of Kazakhstan "On Education"; the State Compulsory Educational Standard of 2022, the Technical Regulations, qualification requirements; the Academic Policy of the NSCP RK and other internal regulations governing educational activities.

Conclusions of the EEC on the criteria. Compliant out of 11 standards: fully - 10, partially - 1, do not comply – 0

Recommendations for improvement, identified during the external visit:

- 1) To develop, approve and implement a quality management system, including regular internal and external reviews and audits (8.4.2)

Standard 9: CONTINUOUS RENEWAL

The procedure for updating the organizational structure is carried out on the basis of an analysis of the current and modern needs of practical healthcare and science, changes in LSI, professional standards, recommendations of students, teachers and representatives of practical healthcare in order to improve the quality of the educational process and in 2023, such changes were made as expanding the structure of the Training Centre and including the positions of an office registrar specialist to account for the assessment of knowledge and skills of students, the chief specialist of the simulation centre to ensure control and implementation of the work of residents with mannequins and simulators; by the end of 2024, it is planned to equip the training centre with simulation equipment.

Updates are made in the memo of the head of the Training Centre and are accompanied by the development of a draft staffing schedule for the new infectious disease research centre. An application for the necessary material and technical equipment is formed and transferred to the planning and economic analysis department for inclusion in the economic plan and procurement.

The educational organization annually allocates resources for continuous improvement in the amount of 19,947.18 tenge. For example, in 2022-2023, the expansion of the classroom fund increased by 60%; the Moodle distance learning system, AIS «Platonus», anti-plagiarism was purchased.

For the targeted improvement of the educational process, sociological research is carried out, including benchmarking, high provision of universities with access to international databases, modular training organizations, the use of an interdisciplinary approach in the learning process, the use of simulation technologies in the learning process have been revealed. During such an analysis, it is planned to equip the training centre with simulation equipment.

Conclusions of the EEC on the criteria. Comply with 2 standards (including 1 basic, 1 Standard of improvement): fully - 2, partially - 0, do not comply - 0.

CONCLUSION: During the external evaluation of the educational program, it was established that out of **114 standards** (including 82 basic standards and 32 improvement standards), 106 accreditation standards demonstrate full compliance, including 76 basic standards and 30 improvement standards. 8 improvement standards were partially fulfilled. No non-compliance with the standards was found. Considering that the primary accreditation of the educational program in the specialty 7R01103 "Pulmonology for adults, children" is being carried out and the admission of residents is planned for 2024, in compliance with the requirements of the Law on Education of the Republic of Kazakhstan, the educational organization initiated specialized (program) accreditation without a contingent of residents. Therefore, the tasks of the external expert commission included evaluating the readiness of the NSCP to accept residents, studying the existing principles and approaches to training residents, quality assurance mechanisms and management of the residency educational program using the example of other educational programs. Nevertheless, the EEC

specifically examined the organization of training in the specialty 7R01103 "Pulmonology for adults, children", including documentation, Academic staff, educational resources and other important issues related to compliance with accreditation standards.

The EEC concluded that, along with the achievements in training residents, including the expected results of training in the accredited educational program 7R01103 "Pulmonology for adults, children", there are a number of comments that NSCP should eliminate within the 1-2 quarters of 2024.

5. Recommendations for improving the educational program 7R01103 "Pulmonology for adults, children" of JSC "NSCP":

1. To provide for due representation of residents in advisory bodies (2.4.4).
2. It is necessary to refine the checklists for conducting current, midterm and end-of-course assessments for the program disciplines (3.1.4).
3. To develop and implement mechanisms for studying and documenting the reliability, validity and fairness of assessment methods (3.1.4).
4. To provide for the inclusion of residents in the process of developing admissions policies (4.1.6)
5. To ensure adequate representation of residents in advisory bodies (4.4)
6. To develop a program for developing the professional and pedagogical competencies of teachers and mentors (5.2.2).
7. To provide residents with access to the latest literature, subscriptions to electronic resources, international sources and equipment for theoretical training and mastering practical skills. To provide a safe environment for self-education (6.1.1).
8. To implement the program 7R01101 "Phthiology for adults, children", it is necessary to provide access to laboratory and instrumental diagnostics of patients, improve the material and technical base, include training using simulations as an integrated part of the educational program (6.2.2).
9. To create the necessary conditions for placing a scientific library, regularly replenish the library with modern educational and scientific literature on phthiology based on the analysis of needs, feedback from teachers and residents (6.3).
10. To integrate training in the simulation centre into the educational program (7.5.1).
11. To develop, approve and implement a quality management system, including regular internal and external reviews and audits (8.4.2)
12. For ease of navigation on the official website, generate a Q-code for receiving assessments and services; modernize the site for visually impaired students (Standard 9).

6. Recommendation to the ECAQA Accreditation Council

The members of the EEC established the compliance of the educational program 7R01103 "Pulmonology for adults, children" of the NSCP with the Accreditation Standards and came to a unanimous opinion to recommend that the ECAQA Accreditation Council to accredit this program for a period of 5 years.

| | | |
|---------------------|--------------------------------------|---|
| Chairman of the EEC | IMASHEVA BAGDAT SAKENOVNA |  |
| Foreign expert | RYZHKIN SERGEY ALEKSANDROVICH |  |
| Academic expert | KURMANOVA ALMAGUL MEDEUBAYEVNA |  |
| Academic expert | RAMAZANOVA SHOLPAN KHAMZAEVNA |  |
| Academic expert | BUGAKOV ANATOLY ALEKSEEVICH |  |
| Academic expert | IZTLEUOV YERBOLAT MARATOVICH |  |
| Expert employer | UTESHEVA GULMIRA SAYYNBAEVNA |  |
| Expert student | TERTYUBAEVA ZHAZIRA ORUMBEOVNA |  |

Профиль качества и критерии внешней оценки образовательной программы
7R01103 «Пульмонология взрослая, детская» ННЦФ (обобщение)

| Стандарт | Критерии оценки | Количество стандартов | БС*/СУ | Оценка | | |
|----------|----------------------------------|-----------------------|--------|-------------------------|------------------------|------------------|
| | | | | Полностью соответствует | Частично соответствует | Не соответствует |
| 1. | МИССИЯ И КОНЕЧНЫЕ РЕЗУЛЬТАТЫ | 14 | 9/5 | 9/5 | | |
| 2. | ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА | 22 | 19/3 | 18/3 | 1/0 | |
| 3. | ОЦЕНКА РЕЗИДЕНТОВ | 9 | 6/3 | 5/3 | 1/0 | |
| 4. | РЕЗИДЕНТЫ | 20 | 14/6 | 14/5 | 0/1 | |
| 5. | АКАДЕМИЧЕСКИЙ ШТАТ/ПРЕПОДАВАТЕЛИ | 8 | 7/1 | 6/1 | 1/0 | |
| 6. | ОБРАЗОВАТЕЛЬНЫЕ РЕСУРСЫ | 18 | 11/7 | 9/7 | 2/0 | |
| 7. | ОЦЕНКА ОБРАЗОВАТЕЛЬНОЙ ПРОГРАММЫ | 10 | 7/3 | 6/3 | 1/0 | |
| 8. | УПРАВЛЕНИЕ И АДМИНИСТРИРОВАНИЕ | 11 | 8/3 | 8/2 | 0/1 | |
| 9. | НЕПРЕРЫВНОЕ УЛУЧШЕНИЕ | 2 | 1/1 | 1/1 | - | |
| | | 114 | 82/32 | 76/30 | 6/2 | |
| | | | | 106 | 8 | |

Список документов, изученных членами ВЭК в рамках проведения внешней оценки образовательной программы 7R01103 «Пульмонология взрослая, детская» ННЦФ

| № | Наименование документа | Примечание |
|----|--|--|
| 1 | Лицензия на образовательную деятельность «Здравоохранения» | Дата выдачи 06.04.2015 г. |
| 2 | Рецензия на образовательную программу послевузовского образования | Резидентура Фтизиатрия взрослая, детская 140 кредитов |
| 3 | Рецензия на syllabus | Повышение квалификации Туберкулез детского возраста 60 ч |
| 4 | Рецензия на контрольно-измерительные средства (КИС) | Повышение квалификации Бактериологическая диагностика туберкулеза 60 ч |
| 5 | Рецензия на контрольно-измерительные средства (КИС) | Повышение квалификации Лабораторная диагностика туберкулеза в ПМСП 60 ч |
| 6 | Акт внедрения | Повышение квалификации Раннее выявление, диагностика и профилактика туберкулеза в сети ПМСП - 120 ч / 4 кредита |
| 7 | Дополнительное соглашение к Трудовому договору Жапаркулова М.А. | Оказание услуг по НИР |
| 8 | Копия - Меморандум о сотрудничестве «Новосибирский научно-исследовательский институт туберкулеза» МЗ РФ | Срок договора 3 года Заклучен 2018 году |
| 9 | Копия – Соглашение о сотрудничестве Центр грудной хирургии СУАР КНР | Срок договора с 2020 года по 2022г. |
| 10 | Копия – Меморандум о соглашении Таджикистан | Срок договора не указан Подписан в 2021 году |
| 11 | Копия – Меморандум о научно-техническом и образовательном сотрудничестве Национальный центр Туберкулеза и заболеваний легких Республики Грузии | Подписан в 2021 году |
| 12 | Копия – Соглашение о научно-техническом и образовательном сотрудничестве АО «Генериум» | Подписан 2019 года |
| 13 | Копия – Меморандум о научно-техническом и образовательном сотрудничестве Республиканский центр по защите населения от туберкулеза МЗИСЗ Республики Таджикистан | Подписан 2019 года |
| 14 | Копия – Меморандум о взаимопонимании и сотрудничестве Центр изучения Глобального здоровья в Центральной Азии | Подписан 2018 года |
| 15 | Положение об информационной политике | 03.05.2021 г. |
| 16 | Кодекс чести и академической честности резидента | 10.05.2024 г. |
| 17 | Договор о совместной деятельности АО «Научный центр педиатрии и детской хирургии» | 27.06.2022 г. |
| 18 | Договор о совместной деятельности «Городская поликлиника №1» г. Алматы | 04.08.2023 г. |
| 19 | Договор о совместной деятельности ГКП на ПХВ «Центральная городская клиническая больница» г. Алматы | 13.06.2022 |

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|----|---|-------------------------------|
| 20 | Соглашение о сотрудничестве – РГП на ПХВ «Казахский научно-исследовательский институт онкологии и радиологии» | 30.04.2024 г. |
| 21 | Договор о совместной деятельности «Городская поликлиника № 6» г. Алматы | 10.05.2024 г. |
| 22 | Положение о наблюдательном совете | |
| 23 | Кодекс корпоративного управления для медицинских организаций в форме ННЦФ РК с наблюдательным советом | 31.12.2019 г. |
| 24 | Положение о службе внутреннего аудита | 2021 г. |
| 25 | Журнал «ФТИЗИОПУЛЬМОНОЛОГИЯ» | № 01/2023 |
| 26 | Положение о научном стимулировании сотрудников | 2023г. |
| 27 | Журнал ознакомления слушателей с правилами инфекционной безопасности | За 2023 год |
| 28 | Договор №287-С о предоставлении услуг ФО «Plagiat.pl» | 24.10.2023г. |
| 29 | Журнал ознакомления слушателей с правилами техники безопасности | За 2023 год |
| 30 | Выписка из протокола Ученого совета №2 от 10.05.2024г. | Утверждение миссии |
| 31 | Личные дела ППС: Серикбаева К.С., Кастыкпаева Л.В., Бисмилда В.Л. | |
| 32 | Трехсторонний договор оказания услуг № 165-G от 03.06.2024г. ОО «Цифра» | |
| 33 | Кодекс корпоративного управления | 31.12.2019г. |
| 34 | Положение об информационной политике | 03.05.2021г. |
| 35 | Прейскурант цен на платные образовательные услуги | На 2024г. |
| 36 | Приказ о утверждении прейскуранта цен на 2024г. | |
| 37 | Дополнительное соглашение № 2 к ТД от 03.02.2022г. Жапаркуловой М.А. | Согласие на преподавание |
| 38 | Журнал выдачи свидетельств за 2019 г. | Электронная версия |
| 39 | Рецензия на образовательную программу послевузовского образования | Резидентура Радиология, 140 ч |
| 40 | Кодекс чести ППС | 10.02.2024 г. |
| 41 | Положение об Ученом совете | 02.01.2022 г. |
| 42 | План работы Ученого совета | 2024 г. |
| 43 | Положение учебно-методического совета | 2022-2025 |
| 44 | Положение о поддержке и стимулировании резидентов | 2024-2028 |
| 45 | Положение о совете резидентов | 2024-2027 |
| 46 | Положение о порядке подачи документов для получения акта внедрения инновационных технологий в образовательный процесс | 2024-2027 |
| 47 | Анкета слушателей | |
| 48 | Перечень технологического оборудования | |
| 49 | Академическая политика | 2023-2026 |
| 50 | Образовательная программа резидентуры по специальности «Фтизиатрия взрослая, детская» | 2023-2025 |
| 51 | Приказ «О создании Локальной комиссии по биоэтике» | №4-п от 05.01.2021 г. |
| 52 | Годовой план работы Локальной комиссии по биоэтике | На 2024 год. |