

MISSION OF THE EDUCATIONAL PROGRAM 70910210

MASTER'S PROGRAM IN "SURGERY"

The modern educational system of higher education in Uzbekistan is focused on training competent and competitive specialists in various fields of society. Particular attention is paid to the practical orientation of teaching students and the development of their intellectual potential, taking into account compliance with educational standards.

The mission of the educational program in the specialty 70910212 – "Surgery" is to provide high-quality training of specialists in the field of general surgery with modern clinical knowledge, practical skills and professional competencies necessary for the diagnosis, surgical treatment and rehabilitation of patients, as well as for conducting scientific and educational activities in the healthcare system.

Key aspects of the mission:

Patient-centeredness is the training of surgeons who are able to make informed clinical decisions in the best interests of the patient.

Integration of science and practice – training based on evidence-based medicine and the latest technologies in surgery.

Ethical and legal literacy – the formation of responsibility, compliance with the principles of medical ethics.

The development of scientific thinking is the formation of skills of analysis, criticism, planning and execution of scientific research in surgery.

Readiness for interdisciplinary interaction – teamwork with anesthesiologists, therapists, rehabilitation therapists, etc.

The main goals of general surgery are the formation of a system of professional knowledge, skills and abilities necessary for the performance of diagnostic, therapeutic, preventive and rehabilitation measures in surgical diseases, as well as the development of research competencies and readiness for independent professional and scientific activities in the field of general surgery.

"Surgery" clearly defines its strategic goals, values, educational objectives, focus on research activities and relationships with the health care system and society, as well as connection with the provision of medical care.

The values of surgery are:

1. Priority of the patient's interests (care for the life, health and well-being of the patient is the main guideline, an individual approach to treatment and respect for the patient's personality).
2. Professionalism (high level of theoretical knowledge and practical skills, responsibility, accuracy, discipline, self-control).

3. Ethical responsibility (compliance with the principles of medical ethics and deontology, honesty, respect for the patient's rights, confidentiality).
4. Teamwork (effective interaction with colleagues: anesthesiologists, nurses, therapists and other specialists, the ability to work in a multidisciplinary team).
5. Continuous professional development (readiness for continuous learning and mastering of new technologies, self-analysis and critical thinking).
6. Scientific conscientiousness (striving for objectivity and accuracy in research, inadmissibility of falsification and plagiarism);
7. Humanism (compassion, patience, empathy towards suffering patients, support in difficult, borderline and palliative situations).

The strategy for the development of surgery is aimed at ensuring the sustainable improvement of surgical care through the introduction of innovative technologies, the development of human resources, the improvement of the quality of medical education and the expansion of scientific research in the field of surgery. The achievement of this goal depends both on external factors – common efforts to integrate into European structures, and internal factors – the vision and development of academic structures to achieve European standards and reform of the education system.

The main directions of the strategy for the development of surgery:

1. Clinical Practice Modernization

- introduction of minimally invasive and robotic technologies;
- improving the availability and quality of surgical care;
- development of high-tech medical care (HMC).

2. Development of human resources

- training of highly qualified surgeons through master's degree, residency, postgraduate studies;
- creation of a system of continuing medical education;
- support for young professionals and mentoring.

3. Integration of science and practice

- development of research work in the field of surgery;
- implementation of research results in clinical practice;
- support of publication activity and participation in international conferences.

4. Digitalization and IT technologies

- Implementation of telemedicine and digital platforms in surgical practice
- Using AI and Big Data to Support Clinical Decisions
- Development of simulators and virtual reality for training

5. Ethical and legal development

- increased attention to medical ethics, informed consent, and patient rights;
- improving the legal literacy of surgeons

1.1.2 Andijan State Medical Institute (ASMI) ensures that the public and the health sector are widely informed about the stated mission of the educational program. The mission and vision of the educational program should correspond to the mission and vision of the educational institution.

"Surgery" briefly and clearly describes its strategic goals, values, educational goals, research activities and relationships with the health care system and society, and the relationship with the provision of medical care.

The mission and goals of the surgical educational program are in line with the mission and goals of the educational organization with the overall mission of the Master's Degree Department and are aimed at training highly qualified specialists who are able to work effectively in the clinical, scientific and educational fields.

The vision of surgery is surgery as a high-tech, scientifically based and patient-oriented field of medicine, providing effective and safe care to the population, sustainable development of the professional community and the integration of advanced knowledge, innovations and digital technologies into clinical practice.

The mission and vision of the program were developed within the framework of the strategic plan of the institute and approved at a meeting of the Academic Council, taking into account the recommendations of the Ministry of Health, employers and the professional medical community. They reflect the priorities of sustainable development of the healthcare system of the Republic of Uzbekistan, correspond to the global goals in the field of medical education (SDG 3, WFME Standards), and are focused on the implementation of the principles of evidence-based, personalized and ethically oriented medicine.

The vision of surgery and educational programs is closely related to missions and fully reflects goals and beliefs. Khirurgiya actively supports interaction with all stakeholders, implements a flexible training model in higher and postgraduate programs, and supports the digitalization of all aspects of its activities.

The vision contains a certain scenario for the future, an assessment of the place and role of surgery in society. The mission, vision and values reflect the development and improvement not only in the institute, but also in the national and international higher education system.

To achieve the mission of surgery, it strives to comply with the basic principles:

- university autonomy;

- academic freedom;
- responsibility to society;
- quality assurance;
- management and financial efficiency;
- equality of opportunity and justice;
- Transparency;
- observance of the rights and freedoms of masters of training and teachers of the department;
- independence from ideologies, religions and political doctrines;
- freedom of national and international mobility of masters, teaching staff and researchers;
- partnerships and consultations of social partners in decision-making.

As the mission is the basis for the activities and development of surgery, it is communicated to all stakeholders:

- публикации на официальном сайте института <https://adti.uz> или в социальных сетях <https://www.youtube.com/>, [Telegram: View @adtiuz_rasmiy](#), [Andijon Davlat Tibbiyot Instituti | Facebook](#), [ADTL.UZ | Rasmiy \(@adtiuz\)](#) • Фото и видео в [Instagram](#), [Andijon davlat tibbiyot instituti \(@AndijonDavlat\)/X](#), <https://www.linkedin.com/>
- dissemination through the HEMIS platform to all departments of the institute, teaching staff, students and masters;
- by posting on the information stands of the department;
- inclusion in educational and methodological materials (syllabuses, work programs);
- discussion of the mission at introductory classes, curatorial hours, meetings of departments;
- Presenting the mission of the program during job fairs, open days, and meetings with employers;
- distribution of information booklets and promotional materials (in print and electronic form);
- presentation during international forums, symposia, conferences in which teachers and masters participate;
- sending information to surgeons in partner meetings, etc.

1.1.3 The Andijan State Medical Institute (ASMI) clearly defines and describes the purpose of the postgraduate training program, the values, objectives of training and

research, regarding the provision of medical care and the health care system, social, individual and social needs, health promotion, prevention and treatment of diseases.

An important aspect in the higher education system is integration with science, business and production. These issues are also relevant within the framework of the State Program for the Development of Education and Science of the Republic of Uzbekistan, as well as in the context of the State Health Program for the period 2020-2025. Training in accredited educational programs will provide master's students with the necessary knowledge to provide medical services taking into account the individual characteristics of each patient, meeting the stated goals of the program.

The educational program, in particular, is actively involved in the national development of education. In fact, "Surgery" demonstrates constant development and clear adaptation to changes not only in the educational environment, but also in the integration processes of the scientific, educational and clinical direction of the healthcare system of our country.

The purpose of the educational program "Surgery" is to train highly qualified specialists in the field of medicine in order to provide qualified medical care to the population. The program focuses on taking into account the individual characteristics of patients so that graduates can successfully adapt to the diverse needs and conditions of healthcare and provide effective treatment and care tailored to the unique requirements of each patient. The program is focused on the formation of not only professional competencies, but also scientific thinking, clinical ethics, interdisciplinary approach and social responsibility.

The goals of postgraduate training are determined taking into account:

- priority areas for the development of the health care system of the Republic of Uzbekistan;
- international approaches to the training of surgeons (ESMO, ASCO, WFME, ROSOMED);
- current problems of surgery in the region (cardiovascular surgery, thoracic and abdominal surgery, surgical complications of diabetes mellitus, purulent surgery, liver and kidney transplantation, thyroid diseases, minimally invasive surgery).

The purpose of the educational program of surgery is further clarified by the orientation to the type of professional activity to which the training is directed, taking into account the needs of the labor market and in accordance with the strategy of the Master's program. The program is aimed at preparing future graduates to provide qualified medical care to the population, taking into account the individual characteristics of patients, as indicated in the formulation of the goals of the program.

The values of the program reflect its ideological basis, form the professional identity of students and ensure the quality of training of future surgeons.

The core values of the surgical education program are:

1. Patient-centeredness

- priority of the interests, safety and dignity of the patient.
- empathy, respect and a humanistic approach to providing assistance.

2. Professionalism

- high level of knowledge, skills and clinical thinking.
- responsibility, punctuality, readiness to make decisions in conditions of risk.

3. Ethical responsibility

- compliance with the norms of medical ethics and deontology;
- honesty, integrity and adherence to the principle of "do no harm".

4. Scientific validity

- the basis of medical decisions on the evidence base;
- supporting scientific activity and striving for innovation.

5. Continuous professional development

- readiness for lifelong learning;
- openness to new technologies and methods of treatment.

6. Interdisciplinarity and teamwork

- the ability to interact with colleagues from other medical specialties;
- work as part of a surgical and multidisciplinary team.

7. National Significance and Social Responsibility

- training personnel capable of working effectively in the healthcare system of their country, including in remote and inaccessible regions.

Research: Focuses on research and development, encourages scientific research in various fields of medicine, the development of innovations, and the translation of scientific discoveries into practice to improve the health of patients. Scientific research conducted by masters is aimed at solving real problems of surgical practice: diagnostics, clinical decision-making, surgical interventions, management of the postoperative period, prevention and rehabilitation.

It is emphasized that medical services provided to an individual play an important role in strengthening the public health of the population. This external effect manifests itself as a factor in increasing the productivity of social labor and contributes to the further economic development of the country.

In the light of the priorities of the health development program, "strengthening the health of the population on the basis of ensuring sanitary well-being, preventing risk factors, promoting healthy nutrition and promoting a healthy lifestyle" is highlighted. The educational program meets this goal by preparing graduates for an active role in promoting healthy lifestyles and developing their competence as health advocates.

1.1.4 Andijan State Medical Institute (ASMI) is guided and transforms its mission into a postgraduate training program, quality assurance system, and quality improvement system in accordance with the values and expectations of various stakeholders, including relevant specialists, health organizations and the professional community.

"Surgery" as a whole is focused on providing high-quality education, relying on world scientific trends and principles laid down in the long-term development programs of the world's leading scientific and educational schools. The mission and goal of "Surgery" was formulated in accordance with the state strategy, plans for the development of education and medicine, as well as the strategy of the master's degree and educational program, including modern achievements in republican and world medicine.

The participation of undergraduates and teachers in the formulation of the mission and results of the EP is provided from the earliest stages: teachers develop the EP; participate in monitoring the needs and specifics of the labor market; determine the list of professional standards and qualification requirements in accordance with which the EP is developed; Undergraduates participate in the work of the collegial bodies of the Institute as a full member.

Updating the policy in the field of quality assurance is an integral process of the development of the master's degree, in connection with which the analysis and revision of this document is carried out at the institute on a systematic basis. This factor is related to the dynamically changing needs of stakeholders, namely faculty, students and employers; various regulatory documents of the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan, state program documents, the Charter of the university, the Academic Policy of the Institute, etc.

Every year, the institute with the Department of Education Quality Control conducts an online survey among students and masters about their satisfaction with the implementation of the EP. <https://vote.adti.uz/login.php>

The results of the survey are discussed at a meeting of the Council of the Institute.

The quality assurance process, which is the main concept of the mission, includes annual reviews of the structure and content of the educational program "Surgery", an assessment of their tangible and intangible resources and procedures, as well as an analysis of the effectiveness of

programs with the participation of key stakeholders. The revision of the programs is aimed at updating their content in accordance with the latest scientific achievements, the expectations of masters, the needs of employers and market requirements.

The grounds for the review are the opinions of employers expressed at the meetings of the Department of Surgery, as well as the Committee of Educational Programs, where they are members. Annual meetings for the revision of programs and reviews, as well as the results of the survey of students, masters and the opinions of teachers at methodological meetings of the departments also serve as the basis for adjustments.

Taking into account the changes made, the updated educational program in "Surgery" is provided to the administration of the relevant departments for consideration and feedback within their competence. In the event of systemic inconsistencies, questions may be referred to the Department of Academic Affairs and the Vice-Rector for Academic Activities.

The transformation of surgery includes the following aspects:

1. Competency-based approach: transition from simple knowledge transfer to the formation of professional competencies, clinical thinking, decision-making in conditions of uncertainty, communication with the patient and team, legal and ethical responsibility.
2. Introduction of digital and simulation technologies: the use of simulators, AR/VR, digital simulators for practicing operations and manipulations, telemedicine and remote consultations in clinical scenarios, digital literacy training for surgeons: PACS, electronic medical records, AI systems.
3. Updating the content of the program: inclusion of new sections (minimally invasive and endovideosurgery, robotic surgery, surgery in emergency situations, patient-centered approach and cultural competence), taking into account international standards (WFME, Bologna, ESG, CanMEDS).
4. Internationalization of education: internships, exchanges, participation in international conferences, training in several languages, introduction of English-language modules, preparation for work in a multicultural environment and according to international protocols.
5. Integration of science and practice: emphasis on clinical and applied scientific work of undergraduates, introduction of research modules and thesis work based on clinical data, development of skills in critical analysis of literature and evidence-based medicine.
6. Connection with practical health care: expansion of the base of clinical practices and mentoring, involvement of students in the real work of surgical departments, joint projects with institutions of the Ministry of Health of the Republic of Uzbekistan.

7. Individualization of the trajectory: elective modules (abdominal surgery, vascular, oncosurgery, etc.), the ability to choose a scientific direction and clinical specialization, the development of soft skills — time management, stress resistance, leadership.

1.1.5 Andijan State Medical Institute (ASMI) has a process of periodic review and introduction of changes and additions to the mission of the postgraduate education program in accordance with the modern scientific, socio-economic and cultural development of society.

The mission of surgery reflects the educational strategy in accordance with the State Programs for Reforming Medical Education of the Republic of Uzbekistan. In order to provide conditions for the development of medical science, the system of training, advanced training and retraining of personnel in the field of healthcare, the Development Concept was approved in strategic partnership with leading international universities and medical organizations. The mission of which should be to promote the development of medicine and healthcare through the accelerated practical implementation of breakthrough scientific discoveries, the introduction of innovative technologies for diagnosis and treatment, the training of future leaders in science and practice, the promotion and use of evidence-based, personal and anticipatory medicine to improve health, quality of life and longevity.

The educational program "Surgery" is designed taking into account the social expectations of society for the intellectual, personal, behavioral qualities and skills of a graduate, which determine his readiness for an independent life, productive professional activity in modern market relations in society. In order to provide conditions for the development of medical science, the system of training, advanced training and retraining of doctors, there is a close strategic partnership with leading international universities and medical organizations. The mission of which should be to promote the development of therapy through the accelerated practical implementation of breakthrough scientific discoveries, the introduction of innovative technologies for diagnosis and treatment, the training of future leaders in science and practice, the promotion and use of evidence-based, personal and anticipatory medicine to improve health, quality of life and longevity.

At the postgraduate level, theoretical and practical components are provided aimed at strengthening the clinical training of masters and introducing a patient-oriented approach in order to achieve high results in the educational process. In the course of patient-centered training, the graduate develops the competencies necessary for highly professional clinical practice, the ability to work independently and in a team, to show a willingness for continuous

learning and participation in continuing medical education and professional development throughout life.

Educational programs also include competencies that reflect the mission and values of learning, such as maintaining a high level of competence, information literacy, ethical behavior, personal integrity, honesty, altruism, service to society, compliance with the professional code, fairness, and respect for others.

1.2 Participation in mission statement

1.2.1 Andijan State Medical Institute (ASMI) ensures the participation of stakeholders and formulates the mission based on consultations with a wide range of stakeholders, including alumni, administrative and academic staff, undergraduates, representatives of the public, professional communities, health organizations.

Key stakeholders in OP Surgery are systematically involved in mission development. Revision and renewal of the mission is a complex process in which all stakeholders take part: the administration of the master's program, academic staff, masters, employers, representatives of professional medical organizations.

The Department of General Surgery and Transplantology and the Department of Surgical Diseases periodically initiate the procedure of updating the mission, vision, values, academic goals and principles of the master's program, which directly determine all aspects related to the quality of the educational and research process.

The mission, vision, and goals of surgery are reviewed and updated periodically. For surgery, it is very important that as many stakeholders are involved in the formulation of the mission.

Taking into account the diversity of EPs, at the meetings of the departments, the missions of the EPs, which are indicated in the curricula of the EP, are also considered and updated. Employers, undergraduates and the administration of the master's degree are involved in this process.

Educational programs are constantly updated with prerequisites, being external factors (instructive and regulatory requirements of the national and international levels, priorities of state policy in the field of health care, changes in the needs of employers, graduates and the professional community, labor market requirements in the field of health care, academic mobility of students, trends in the socio-economic development of the country and the region, monitoring of international standards and new requirements of health organizations) and internal factors (demand for EP, motivation of faculty, qualification and level of training of faculty, etc.).

We emphasize that the wide range of stakeholders of the EP includes faculty, master's students, representatives of health and education authorities, professional medical associations, and the public.

The main goal is to identify new requirements of the labor market in the field of health care; the introduction of new elective disciplines for the individualization of master's training to improve the conditions for clinical practice, etc.