

# Management of advanced medical technology in Uzbekistan

## Background

Pre- and in-service education and professional development of medical personnel in accordance with international standards, as well as using and enhancing skills to operate modern medical technologies are important elements to improve the quality of medical services in Uzbekistan. To assist the Uzbek Government in achieving these goals, GIZ together with the Ministry of Health (MoH) of the Republic of Uzbekistan is implementing the project titled "Management of advanced medical technologies in Uzbekistan".

## The main objectives of the project

Improving the quality of medical and technical services in using and managing advanced medical technologies in Uzbekistan by:

1. improving basic medical education to properly handle medical technologies in accordance with international standards;
2. systematization of training and advanced training of medical personnel;
3. management and maintenance of medical equipment; and
4. strengthening the capacity of medical personnel in pandemic preparedness and disease related measures.

The project is being implemented in close cooperation with the project's key partners: the MoH and its Republican Sanitary and epidemiological welfare and public health service (SanipedService), as well as the Center for Development of Professional Qualifications of Medical Personnel, the Tashkent Medical Academy (TMA), and the

Project name	Management of advanced medical technology in Uzbekistan
Commissioned by	German Federal Ministry for Economic Cooperation and Development (BMZ)
Project region	Tashkent, Samarkand, Andijan, Namangan and Fergana regions of the Republic of Uzbekistan, and the Republic of Karakalpakstan
Partner	Ministry of Health of the Republic of Uzbekistan
Duration	April/2019 – March/2024

Republican Training and Production Center for Servicing Medical Equipment (RTPCME).

In the course of the project, educational and training programmes will be updated in accordance with international standards in the field of endo-surgery, endo-gynecology, pediatric surgery, neonatology, endourology, emergency medical care and diagnostic imaging.

The project will also support the management of medical technology through capacity building and assistance in the development of the strategy of medical technology management.

## Pilot regions

The GIZ "Management of advanced medical technologies in Uzbekistan" project operates in Tashkent, Samarkand, Andijan, Namangan and Ferghana regions of the Republic of Uzbekistan, and the Republic of Karakalpakstan.



**Picture 1:** Laparoscopic surgery as part of a master class for laparoscopic surgeons. Andijan, September 11, 2019

**Picture 2:** Simulation centre of the Tashkent Medical Academy, March 2020



**Picture 1:** conference „The role of nurses in the health sector: successes, tasks and perspectives“. Plenary session. Tashkent, November 2019.

**Picture 2:** Study tour to Berlin for experts of the Uzbek national hospital for emergency medicine. December 2019.

## Training and professional development of medical personnel

To achieve the project goal to improve the quality of medical and technical services in using and managing advanced medical technologies the project will be based on a training needs assessment support the revision of medical training programmes and protocols, taking into account international quality standards; advising a national pool of experts on mentoring and monitoring the educational process.

Thanks to joint efforts and an open constructive dialogue with rectors and leading specialists of medical institutions, national and international experts, the operational plan was approved by the MoH on 14<sup>th</sup> of May 2021, and an amendment to the agreement on the implementation of the project for 2021–2023 was signed. The plan includes the revision of training programmes and protocols, conducting workshops, seminars, monitoring events and study tours with the participation of leading national and international experts, as well as implementation of COVID–19 related competencies.

## Health Technology Management

Within the framework of the project, activities will be implemented to support the MoH in the development of guidelines for managing the life cycle of high-tech equipment.

Assisting in the development of a medical technology management strategy, the project will conduct consultative and training events for the RTPCME aimed at personnel’s capacity building, such as the implementation of quality standards and the revision of training programs for further training of technical personnel.

## Increase COVID-19-related competencies

The project will support the enhancement of the quality of laboratory testing and strengthen the capacity of medical personnel in respiratory support, diagnostic imaging, and COVID–19 related measures by applying international practices and standards. A train the trainer course on waste management in laboratories, specific trainings in infection prevention control and an epidemiological modelling training for public health professionals are implemented together with the German Robert Koch Institute (RKI).

In addition, the Charité Berlin supports the establishment of the national hub-and-spoke telemedical network in Tashkent and four regional branches of the Republican Research Centre for Emergency Medicine; a feasibility study for implementation of wastewater surveillance system for COVID–19 in Tashkent is conducted with the Technical University Munich.

## Expected results

1. Revised medical training programmes including the use of advanced medical technologies in accordance with international quality standards.
2. Updated standards for training medical personnel on how to operate advanced medical technologies.
3. Guidelines developed to support health technology management.
4. Improved quality of laboratory testing and increased capacity of medical personnel in COVID–19 preventive measures.

The expected results of the project are in line with the main goal of the Government of Uzbekistan in relation to public health: improving the universal coverage of quality health services and ensure equal access to health services for all.

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