

Use of Modern, Advanced Medical Technology in Uzbekistan

Context

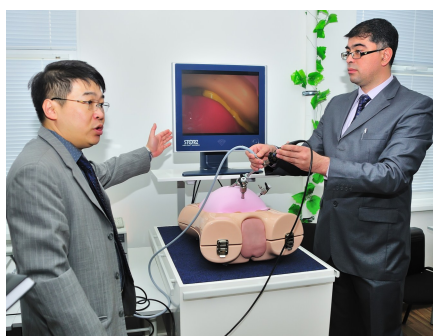
In recent years, Uzbekistan has significantly increased public spending on its health care program. Approximately 59.2 percent of all state spending was directed to financing the social sphere and social protection measures of the population, and according to governmental figures 14.5 percent to the sphere of public health. Substantial amounts of medical equipment have been purchased through donor-funded programs. These procurements included modern high-tech medical equipment for clinical specialty areas such as imaging, laboratory, anesthesia and intensive care medicine, as well as endoscopy and less invasive surgery. However, the current deficit of suitably qualified personnel significantly inhibits the effective and efficient use of modern technology, as well as the quality of procurement management, maintenance and logistics. Consequently, the quality of the health services using advanced diagnostic methods and therapies are insufficient and compromised. Against this background, the need to improve medical services in the use of modern diagnostic and treatment technology is paramount.

Project name	Advanced Training of Doctors and Medical Staff to Work on Modern High-Tech Medical Equipment in Uzbekistan
Financed by	German Federal Ministry for Economic Co-operation and Development (BMZ)
Main partner:	Ministry of Health
Project region	Uzbekistan
Duration	2011-2014

Project Goals

The project “Advanced Training of Doctors and Medical Staff to Work on Modern High-Tech Medical Equipment in Uzbekistan” strives to provide assistance with the training of medical personnel, as well as to improve the quality of management in procurement, logistics and equipment maintenance.

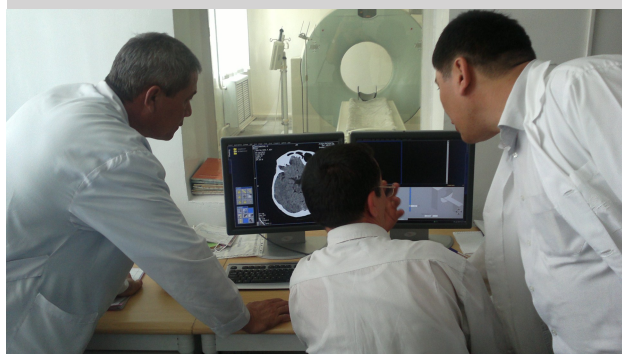
The Technical Cooperation project activities are aimed at improving the efficient and effective use of advanced medical technology in selected clinical areas with a key focus on



The newly established training center is equipped with mannequins and computerised working stations

Trainers are providing skill-based courses on laparoscopy simulators

Photo: © GIZ / Project “Advanced Training of Doctors and Medical Staff to Work on Modern High-Tech Medical Equipment in Uzbekistan”



On-site training on the use of CT angiography in the pilot hospital

imaging systems/computer, magnetic resonance tomography and less invasive surgery (endoscopy). The project provides specialised, technical and organisational advice from international and regional long and short-term experts, facilitation of training courses for partner organisation staff, study tours, and support of partnerships with academic institutions and the private sector.

Project activities

The introduction of less invasive surgical methods in medical facilities provides modern surgical mitigation strategies and reduces post-operative complications. Therefore, training specialists in the use and management of such technology has a clear impact on patient health outcomes. Acknowledging the existing gaps in the professional education of medical staff, a training centre for imaging and laparoscopy techniques was established within the framework of this project in the Republican Scientific Centre of Emergency Care (RSC EMC).

The project has provided support to equip and procure learning materials for the centre such as virtual simulators, training aids, and educational workstations.

Expected impact

The project improves the skills of partner specialists, who, subsequently, assist the government in the transition from normative to needs-based planning. Furthermore, it facilitates partnerships with medical equipment manufacturers and international academic partners. This promotes the involvement of government agencies in collaborative networking and the establishment of private sector cooperation. At healthcare institution level, the project strengthens personal competence and professional accountability. The direct impact of project activity includes the efficient, effective and economical use of medical equipment for selected clinical areas. Furthermore, effective use of medical technology leads to cost-savings through optimal use of equipment, improved diagnosis and treatment resulting in the prevention of undesired interventions and complications in addition to a significant reduction of in-patient hospitalisation stays.

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