

DEVELOPMENT OF THE MEDICAL SYSTEM IN THE REGIONS OF THE ZARAFSHAN OASIS IN 2017–2020 AND THE RESULTS OF INTERNATIONAL COOPERATION

Tuyev Fazliddin Erkinovich

Associate Professor, Bukhara State Pedagogical Institute

<https://orcid.org/0009-0008-9582-2598>

E-mail: fazli1820bek@gmail.com

Abstract: *This article analyzes the medical reforms implemented in the regions of the Zarafshan oasis. In particular, the “Health Train” program, the activities of specialists from the Republican Specialized Centers, visits of foreign specialists, and surgical operations performed on the basis of high technologies are widely covered. Also, the construction and preparatory work carried out to improve the healthcare infrastructure, the process of equipping with medical equipment, and the activities of private clinics opened on the basis of foreign investments are analyzed.*

Keywords: *healthcare, Health Train, Action Strategy, international cooperation, medical investment, angiography, coronarography, heart surgery, KfW, Islamic Development Bank, private clinic.*

In accordance with paragraph 222 of the State Program “On the Implementation of the Strategy of Actions in Five Priority Areas of Development of the Republic of Uzbekistan in 2017-2021 in the Year of Dialogue with the People and Human Interests”, approved by the Resolution of the President of the Republic of Uzbekistan No. PQ-4947 dated February 7, 2017, “Health” trains were organized for the population living in ecologically unfavorable regions of the Republic (Republic of Karakalpakstan, Navoi, Samarkand, Kashkadarya, Surkhandarya regions). On the basis of this program, in order to improve the social situation of the population living in the Zarafshan oasis, medical services were provided to the population in cooperation with the German companies “Friedensdorf International” and “Tovarish-Hilfe fuer kinder” and the US international organizations “Resource and Policy Exchange”, “AmeriCares”, “Toms Shoes”, JSC “Dori-Darmon” and other organizations.

In Bukhara In 2017, there were 40 visits by more than 80 specialists from the republic's specialized centers. In order to implement the "Health Train" program, more than 9,928 patients from the region were examined, more than 6,700 were recommended for outpatient care, and more than 3,000 were recommended for inpatient care. 22 patients were recommended for treatment at the level of republican scientific centers, and



188 patients underwent high-tech surgical procedures. The angiography department began its work in the Bukhara regional multidisciplinary medical center, and in 2017, 2 specialists from the Alexander Nikolaevich Bakulev Scientific and Practical Center for Cardiovascular Surgery of the Russian Federation began their activities. Diagnostic angiography and vascular stenting operations were successfully performed in the center on coronary and other blood vessels. Over a short period of time, more than 200 angiographic manipulations were performed, Coronary angiography was performed on 150 patients, and the patency of the heart arteries was determined. 19 stents were inserted in 18 patients. 100 indications for coronary artery bypass grafting were identified. Also, 10 renal artery angiography was performed. Our specialists also performed complex cardiac surgeries (congenital and acquired heart defects - diss..) in the neighboring Khorezm and Navoi regions of Bukhara.

In 2017, more than 30 specialists from foreign countries (Russia, India, Korea) arrived in Bukhara to provide scientific, practical and methodological assistance. 3 highly qualified specialists who had been working in foreign countries began their activities in Bukhara. In addition, 2 more specialists were involved in the work of urologist Sh. Yagudin (Moscow) and neurosurgeon B. Safarov (St. Petersburg). In 2017, in leading clinics of foreign countries 9 doctors have improved their skills.

In order to improve conditions in medical institutions of the Bukhara region, in 2018, the Islamic Development Bank spent a total of 710 thousand US dollars on construction, reconstruction and repair works, and in 2019, a total of 104.1 billion soums were carried out at 39 facilities. Within the framework of the 2020 investment program, 47.5 billion soums were allocated for construction, reconstruction and overhaul of 17 facilities, and 4.2 billion soums were allocated for the construction of a sanatorium for the elderly, disabled people, and war and labor veterans. Under centralized procurement for equipping medical institutions with medical equipment, in 2020, 2.1 billion soums were allocated to the regional multidisciplinary medical center, and 1.8 million soums were allocated from a loan from the German state bank KfW. equipment worth US dollars, under the "Health-3" project program, district and city medical associations were provided with equipment worth 945.0 million soums.

At the expense of local budget funds, equipment worth 870.0 million soums was delivered to the Bukhara branch of the RShTYoIM, 1.2 billion soums to the regional eye hospital, 120.0 million soums to the regional dermatovenereological dispensary, and 2.9 billion soums to the regional medical diagnostic center. In connection with the coronavirus infection, a portable X-ray machine, IVL, biochemical analyzer, oxygen concentrator, and suction apparatus were delivered to the regional infectious diseases hospital for 850.0 million soums. At the end of 2019, 1,351 specialists exchanged

experience at the Republican Center, 103 at leading clinics and centers of foreign countries, while in 2020, 5 specialists improved their skills abroad, 588 specialists in Tashkent and in mobile cycles (of which 60 improved their skills online). In 2020, in connection with the coronavirus pandemic, video conferences were held at the regional infectious diseases hospital and the regional multidisciplinary medical center with more than 20 countries from Turkey, Russia, France, Israel, China, South Korea, Brazil, and Ukraine.

Radical reform of the healthcare system and improving the quality of medical services are one of the most important and priority areas of state policy. In this regard, in 2017-2020, systematic work was carried out in the Republic to optimize the medical system, bring the quality of medical services to the required level, and at the same time improve the material benefits of medical workers.

In Bukhara, 252 treatment-preventive and auxiliary institutions provided medical services to 1.9 million people (30 of which were inpatient, 186 of which were outpatient-policlinic institutions). As a result of the optimization of the primary health care system in the region, women's clinics, girls' health rooms, 70 ambulances and 202 social pharmacies were established in 70 primary health care centers, and 93 primary health care centers were established. During 2016-2019, a total of 93 "Damas" (of which 30 were financed from the local budget - diss..) and 18 modern reanimobiles of the "Hyundai" and "Toyota" models were delivered to the regional emergency medical system, bringing the number of vehicles to 154 according to the norm. The amount of money spent on medicines per person was 5,800 soums in 2019, and in 2020 it was increased to 6,700 soums (780 soums in 2017). Under the investment program, 60.8 billion soums were allocated for construction, reconstruction and capital repairs at 26 facilities, 14.2 billion soums were allocated for the construction of women's and children's "Muruvvat" homes and a "Sanatorium for the Elderly, Disabled, War and Labor Veterans". In 2019, 5 medical institutions with foreign investment were opened in Bukhara region. In particular, the South Korean "Himchan" clinic for traumatology, orthopedics, neurosurgery, and rehabilitation (7.1 million dollars); In cooperation with South Korea, the regional "Tibtekhnik" LLC established an enterprise specializing in the production of coronary stents, coronary balloons, diagnostic catheters and introducers (5.3 million dollars); "Megapolis Capital" private clinic in cooperation with India provided an ECG device (2.0 thousand dollars); "Zartek Dializ Medservis" private clinic provided 4 hemodialysis devices with the Turkish state (117.0 thousand dollars); "Akmal Stimul" private hospital provided dermatovenerological equipment with the Turkish state (10.0 thousand dollars).

At the end of 2019, 1,351 specialists improved their skills in the Republic, 103 returned from leading clinics and centers in foreign countries. This year, 200 scientists and highly qualified specialists from 19 countries visited and conducted more than 350 seminars, master classes and surgical operations.

Thus, the work carried out in 2017–2020 to improve the quality of medical services and improve the healthcare system in Bukhara region has yielded results as one of the priority areas of state policy. The active participation of specialists from republican and foreign specialized centers, the “Health Train” project, and the introduction of high-tech surgical procedures have increased the ability to provide quality medical care to the population. Private medical institutions opened in cooperation with international organizations such as the Islamic Development Bank, KfW, USAID, as well as South Korea, India, and Turkey have qualitatively updated the infrastructure of regional medicine. Construction, reconstruction, and equipment works carried out on the basis of local and international projects have strengthened the material and technical base of healthcare institutions. At the same time, the quality and efficiency of medical services have further improved by increasing the foreign experience of specialists. This, in turn, has served to increase the level of trust and satisfaction of the population with medical services.

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