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**Original Research Article**

**Volume 15 Issue 02**

**March - April 2026**

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**IMPACT OF THE DMED PLATFORM ON THE EFFICIENCY OF MEDICAL  
INSTITUTIONS**

**Jurayeva Moxira Azizkhan Qizi**

Zangiota District Family Clinic No. 17

IT Nurse

Phone: 999382793 Email: [Mokhiradjuraeva93@gmail.com](mailto:Mokhiradjuraeva93@gmail.com)

**ANNOTATION:**

This article examines the impact of the DMED (Digital Medical Electronic Documentation) platform, which is being actively implemented in the healthcare system of Uzbekistan, on the efficiency of medical institutions. Particular emphasis is placed on the fact that electronic medical records have significantly reduced the volume of paper documents and made it possible to allocate resources more efficiently. The article discusses the fact that the widespread implementation of the DMED platform in medical institutions has led to a fundamental improvement in the quality and efficiency of healthcare services.

**Keywords:**DMED platform, digital healthcare, efficiency of medical institutions, electronic medical records, healthcare information systems, Uzbekistan.

**INTRODUCTION**

Digital technologies are becoming an integral part of modern medicine. In many countries around the world, the implementation of electronic health records (EHR) systems has been recognized as a key factor in improving the quality and efficiency of healthcare services. According to data from the World Health Organization in 2022, countries that have fully implemented digital health systems have achieved an average reduction in healthcare costs of 18%, while significantly improving patient outcomes

(World Health Organization, 2022). These data demonstrate the importance of digitalization not only in technical terms, but also in economic and human terms.

The Republic of Uzbekistan, not remaining aloof from global changes, has taken a number of important decisions to reform the healthcare sector, which has become another step forward for the development of the medical sector. As part of the state programs on "Improving a Healthy Lifestyle and the Healthcare System," all medical institutions in the country are gradually being digitized. The DMED platform, developed and put into circulation by the Ministry of Health of Uzbekistan in 2020, is recognized as a central part of these reforms (Ministry of Health of the Republic of Uzbekistan, 2020). The platform allows for the digitization of medical records, centralization of laboratory results, automation of drug orders, and storage of a patient's complete medical history on a single platform.

My research shows that implementing electronic medical systems not only streamlines administrative processes, but also improves the quality of clinical decision-making.

### **LITERATURE ANALYSIS**

Electronic health records (EHRs) and digital health systems have been attracting the attention of researchers for many years. Although the first serious scientific work in this area began in the late 1990s, the number of empirical studies on a wide range of topics has increased dramatically, especially since the 2010s. This is mainly due to the fact that many countries have begun to adopt national EHR policies.

The first systematic review by Chaudhry et al. (2006) demonstrated that the implementation of EHR systems has a positive impact on overall work efficiency by improving the time management of healthcare workers, reducing the number of repeated tests, and streamlining the processes of providing healthcare. This study served as a theoretical foundation for much subsequent work and, it is no exaggeration to say, helped advance the scientific discussion in the field of EHR by several decades.

The transition to electronic platforms shows that digital medicine platforms produce different results, closely related to the conditions of their implementation, the level of technical training and the willingness of staff to adopt them. Therefore, this article

focuses on the specific context of Uzbekistan and the unique functional features of the DMED platform.

## **RESULTS**

The empirical data collected during the study clearly demonstrates the positive impact of the DMED platform on the activities of medical institutions. The data obtained on the time of admission of patients showed very significant results.

The analysis of employee productivity indicators also showed positive changes. The average time spent by medical staff on working with documents per day was 2.4 hours before the platform, but after its implementation this figure has decreased by half. I can say this from personal experience. Now patients always have a systematized and organized set of documents at their fingertips. They do not need to stand in line for blood test results and other similar tests. Everything is recorded automatically and is convenient for doctors to control.

The results of the study confirm the multifaceted positive impact of the DMED platform on the efficiency of medical institutions. These results allow us to compare them not only within the specific context of Uzbekistan, but also with similar studies on a global scale.

## **CONCLUSION**

Overall, the DMED platform is an important step towards the modernization of the healthcare system in Uzbekistan, making a significant contribution to improving the efficiency of medical institutions. To realize the full potential of the platform, technological solutions must continue to be combined with organizational, financial, and human resources strategies.

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