

## ISSUING MEDICAL PRESCRIPTIONS TO PATIENTS USING THE E-RECIPE SYSTEM

*Qudratova Sarvinoz Murodillo kizi*

*Assistant of Samarkand State Medical University*

*Mardonova Hadicha Nizomiddin kizi*

*Student of Samarkand State Medical University*

*Xamdamova Muxlisa Toxirjon kizi*

*Student of Samarkand State Medical University*

**Abstract:** E-prescription replaces paper and faxed prescriptions, and the electronic prescription form while filling and producing the medical prescription in an efficient electronic form on the computer, and sending the new prescription or renewal authorization to the pharmacy by e-mail or mail. The E-RECIPE system electronically generates a clear, error-free and understandable prescription for the prescriber directly from the point of care to the pharmacy and is an important element of the quality of human service.

**Key words:** Electronic prescription, paper prescription, prescription, chronic obstructive diseases, medicin.

The E-RECIPE system is a digital platform designed to create, manage and send electronic prescriptions by doctors and other qualified healthcare professionals, and is a modern, safe and effective alternative approach to paper prescriptions. The main function of the E-RECIPE system is that doctors can quickly and accurately create electronic prescriptions by entering patient information, drug names, dosages, routes of administration and other necessary information into the system, and the system has an extensive drug database, which allows doctors to easily find and select drugs, as well as get information about their interactions. The system can automatically check for drug interactions and issue warnings about dangerous combinations. Doctors can send e-prescriptions directly to pharmacies via email, mobile apps or other secure communication channels. Some systems can also send a message to allow the patient to fill the prescription before going to the pharmacy. Doctors and pharmacies will be able to track prescriptions, reorder and view history. The system has security measures in place to protect patient information and prescription information, while the system also allows for the generation of reports on prescribing trends, medication usage and other critical medical information.



Prescription is an electronic or written instruction of a doctor to a specialist with pharmaceutical knowledge on the preparation and (or) administration of medicinal preparations and the method of their use.

An electronic prescription contains the following information:

- ✓ the name of the outpatient facility;
- ✓ prescription number and date of issuance;
- ✓ patient's full name, year and date of birth, age, gender;
- ✓ diagnosis according to international classification of diseases-10;
- ✓ the name of the medicine according to the XPN;
- ✓ drug form, dosage and dosage procedure;
- ✓ doctor's last name, first name, first name and phone number;
- ✓ surname, first name, first name of the doctor responsible for confirming the electronic prescription.

The validity period of the electronic prescription is one month, and the current process mainly covers 5 diseases - hypertension, heart failure, type 2 diabetes, bronchial asthma, and chronic obstructive pulmonary diseases. This system provides an opportunity to continuously provide medicines to patients suffering from chronic diseases. After the doctor makes an accurate diagnosis of the patient, information is entered into the electronic card and an electronic prescription is created.



At that moment, a message arrives on the patient's mobile phone. A patient who has received an electronic prescription applies to a pharmacy that has a contract with the state health insurance fund. This pharmacy provides the patient with medication options.

The advantage of the E-RECIPE system is that it reduces prescription writing time, reduces paperwork and simplifies workflows, reduces errors in handwritten prescriptions, allows drug interactions to be checked, and reduces the risk of prescription loss or misinterpretation. Reduces paper printing and postage costs by making it easier for patients and doctors to manage prescriptions. At the same time, it helps to improve the quality of treatment and ensure the safety of patients.

The E-RECIPE system stores and sends recipes while being accessible at any time. There is an option to download and print the prescription in PDF format or send the prescription to the patient's email or mobile app. If the system is integrated with pharmacies, it is also possible to send the prescription directly to the pharmacy. The system also has the ability to view the history of all prescriptions written for the patient and to re-order a previously written prescription.

### **Conclusions:**

Using the E-RECIPE system, it is possible to create medical prescriptions correctly and safely, which is an important part of the answer to the desire for high efficiency and convenience in health care. In medical practice, it is a necessary step to ease the work of medical staff and provide better care to patients. The seamless integration of modern technologies such as smartphones brings the doctor-patient experience to a new level of convenience.

### **REFERENCES:**

1. Nabiyeva, S. S., Rustamov, A. A., Malikov, M. R., & Ne'matov, N. I. (2020). Concept of medical information. *European Journal of Molecular and Clinical Medicine*, 7(7), 602-609.

2. Malikov, M. R., Rustamov, A. A., & Ne'matov, N. I. (2020). STRATEGIES FOR DEVELOPMENT OF MEDICAL INFORMATION SYSTEMS. *Theoretical & Applied Science*, (9), 388-392.
3. Berdiyevna, A. S., & Olimjonovna, T. F. (2022). INNOVATIVE APPROACHES IN THE EDUCATION SYSTEM TO INCREASE YOUTH PARTICIPATION. *Web of Scientist: International Scientific Research Journal*, 3(3), 674-677.
4. Esirgapovich, K. A. (2022). THE EASIEST RECOMMENDATIONS FOR CREATING A WEBSITE. *Galaxy International Interdisciplinary Research Journal*, 10(2), 758-761.
5. Toxirova, F. O., Malikov, M. R., Abdullayeva, S. B., Ne'matov, N. I., & Rustamov, A. A. (2021). Reflective Approach In Organization Of Pedagogical Processes. *European Journal of Molecular & Clinical Medicine*, 7(03), 2020.
6. Ne'matov, N., & Rustamov, T. (2022). SANATORIYLAR ISHINI AVTOMATLASHTIRISH: BRON XIZMATI VA UNING STRUKTURASI. *Eurasian Journal of Academic Research*, 2(11), 763-766.
7. Ne'matov, N., & Ne'matova, N. (2022). OLIY TA'LIM TIZIMI TALABALARIGA O'ZBEK TILINI O'QITISHDA AXBOROT TEXNOLOGIYALARINING O'RNI. *Академические исследования в современной науке*, 1(19), 37-38.
8. OB Akhmedov, AS Djalilov, NI Nematov, AA Rustamov // *Directions Of Standardization In Medical Informatics // Emergent: Journal of Educational Discoveries and Lifelong Learning (EJEDL)*, 2(2), 1-4 p. 2021
9. Ne'matov, N., & Isroilov, J. (2022). TIBBIY VEB SAYTLAR YARATISH YUTUQ VA KAMCHILIKLARI. *Zamonaviy dunyoda innovatsion tadqiqotlar: Nazariya va amaliyot*, 1(25), 162-164.
10. Ne'matov, NI. (2022). TIBBIY VEB SAYTLAR YARATISH SAMARADORLIGI. *Academic Research in Educational Sciences (ARES)* 3 (2), 118-124
11. Ismatullayevich, N. N. (2023). The role of educational websites in the development of student's higher education systems. *Eurasian Journal of Research, Development and Innovation*, 17, 17-20.
12. Ismatullayevich N. N., Ilxomovna M. Z. *Automation of Sanatorium Work: Reservation Service and its Structure // Miasto Przyszłości. – 2022. – T. 29. – C. 65-67.*
13. Ne'matov, N., & Sobirova, K. (2024). THE ROLE OF WEBSITES IN IMPROVING THE WORK OF MEDICAL INSTITUTIONS. *Modern Science and Research*, 3(2), 530-532.
14. Ismatullayevich, N. N. (2024). Medical Higher Education Institutions in Medicine and Science Lessons from the Use of Information Technology in the Organization of the Laboratory of Multimedia Tools. *American Journal of Biomedicine and Pharmacy*, 1(6), 16-20.
15. Ne'matov, N., & Yarmahammadov, U. (2023). USE OF MULTIMEDIA IN ORGANIZING PRACTICAL LESSONS IN INFORMATION TECHNOLOGY IN INSTITUTIONS OF HIGHER EDUCATION. *Modern Science and Research*, 2(4), 693-697.
16. MALIKOV, M. R., & NE'MATOV, N. I. (2022). Visual structure of health websites: the need to develop a comprehensive design guide. *THEORETICAL & APPLIED SCIENCE Учредители: Теоретическая и прикладная наука*,(3), 805-810.



17. Ismatullayevich, N. N., & Holmirzayevna, M. S. (2025). THE SOCIO-ECONOMIC IMPACT OF IMPLEMENTING MODERN MEDICAL TECHNOLOGIES. SHOKH LIBRARY.
18. Holmirzayevna, M. S., & Behzodovna, A. N. (2025). ANATOMIYA FANINI O'QITISHDA ZAMONAVIY AXBOROT-KOMMUNIKATSIYA TEXNOLOGIYALARINING O'RNI. YANGI O'ZBEKISTON, YANGI TADQIQOTLAR JURNALI, 2(1), 201-205.
19. Nematov, N. I. (2025). The Role of Digital Technologies in Improving the Effectiveness of Medical Institutions. International Journal of Integrative and Modern Medicine, 3(1), 18-20.
20. NEMATOV, N. I., & TURSUNMURODOV, R. R. O. G. L. (2025). TELEMEDICINE: THE IMPORTANCE OF A DISTANCE APPROACH IN MODERN MEDICAL SERVICES. Valeology: International Journal of Medical Anthropology and Bioethics, 3(1), 1-4.