



## APPLICATION OF COMPUTER TECHNOLOGY IN MEDICINE IN THE PROCESS OF DIGITIZATION

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**Annotation.** The role of computer technology in medicine, as in other areas is incomparable. The use of computer technology in medicine has led to the improvement of digitization by a number of people to relieve fists. Improvements in performance and quality can be achieved. The quality of medical care, the general standard of living of the population, the level of development of the entire country and, in particular, each of its territorial entities depends on how effectively doctors, leaders, governing bodies use this information. Therefore, there is a need to use a large amount of information, and at the same time growing, in solving diagnostic, therapeutic, preventive and therapeutic problems. Statistical, management and other tasks, which today determine the creation of Information Systems in medical organizations.

**Keywords:** IT, computer, resuscitation, pandemic, diagnostics.

**Introduction.** It is no secret that computer technology has penetrated almost all aspects of modern society: politics, defense, entertainment, education and much more. Medicine is no exception. Now it's no secret, but 60 years ago it all seemed like a science fiction. Today we will talk about these very diverse areas, the past, present and future of the cooperation of Medicine and computer technology. We will find out what revolutionary discoveries have been made, what shortcomings and risks this cooperation brings, and finally, what future of Medicine awaits us. Currently, computers are common in many areas of Medicine. Starting from the entry into the computerized doctor's command-a computerized system of Doctor's prescriptions, ending with robotic interns who help surgeons during operations. Computers also play an important role in the work of clinics in general, help in the planning and execution of various administrative tasks, monitoring finances, conducting inventory, etc.

Our honored President Shavkat Mirziyoyev said that improving the quality of education is the only correct way of new Uzbekistan's development. “We need to continue the reforms we started in this area, go to educational institutions, communicate more with teachers and coaches, and jointly solve the issues they have put in order to improve quality. We will include in the state program next year all the issues raised by our people with clear solutions. We need to continue the reforms we started in this area, go to educational institutions, communicate more with teachers and coaches, and jointly solve the issues they have put in order to improve quality. We will include in the state program next year all the issues raised by our people with clear solutions. In these processes, I ask the deputy and senators, representatives of the neighborhood, intellectuals, young people, entrepreneurs and the general public to be active, to make new proposals and initiatives,” said the head of state[1]. The future of each society is determined by the extent to which the educational system is developed, which is an integral part of it and a vital



necessity. Today, the reform and improvement of the continuous education system of our country, which is on the path of independent development, raising to a new level of quality, introducing advanced pedagogical and information technologies into it, and improving educational efficiency, has risen to the level of Public Policy. With the adoption of the law “on education” and the “national program of training” in the Republic of Uzbekistan, the foundation for modern training of personnel was created through the system of continuing education. In the process of the development of innovative pedagogical technologies and their introduction into the educational process, as well as the rapid exchange and improvement of information technologies, each pedagogical teacher requires the development of his professional training, pedagogical skills. Among the issues in the focus of our president and government was the issue of informatization of the educational process, and a number of laws and resolutions were adopted to resolve this issue. The basis of these laws and decisions is the widespread introduction of new information and communication and pedagogical technologies into the educational process, electronic textbooks and multimedia tools, the training of highly qualified, informational culture specialists who are well versed in modern information and communication technologies and effectively use them in their professional activities.

Application of computer technology in medicine. The Internet also played an important role. Thanks to him, a new direction in medical diagnostics appeared - teleradiology (in other words, the transmission of images and medical information through the World Wide Web). This innovation made it possible to analyze patient data and decide on treatment while away from it, thereby saving valuable time. Application of computer technology in medicine. The Internet also played an important role. Thanks to him, a new direction in medical diagnostics appeared - teleradiology (in other words, the transmission of images and medical information through the World Wide Web). This innovation made it possible to analyze patient data and decide on treatment while away from it, thereby saving valuable time. Doctors were also able to quickly consult with colleagues from all over the world. A large database of medical knowledge stored on the internet is also available to patients, giving them the opportunity to familiarize themselves with their diseases, identify symptoms, know the necessary information about the doctor or clinic, medicines, etc. There is a lot of controversy over the patient's use of the Internet. The fact is that it is very dangerous for him to trust the patient himself to make a diagnosis and prescribe treatment. On the other hand, if the patient combines the use of information on the Internet with a visit to a real doctor, this can increase the quality of his treatment.[2]. Another article in 1967 addressed the following visions of the future – “every man, woman, or child can electronically record all of their medical information into a vast memory system in Washington”. If, for example, a person has a heart attack and he is in another city. The article will answer: “the appointed doctor should only call Washington, after a few seconds all the information of this patient will be in front of him”. Here, more than half a century later, we will witness how such systems have become a reality and become widespread in various medical institutions around the world.

From the late 1970s to the early 1980s, many support programs were developed around Fileman. Later, the US Department of Veterans Affairs began using Fileman as an official medical program. In 1981, in Florida, Mickey Singer founded a software company called Personalized Programming Inc, and he founded Medical Manager Inc. It became one of many companies that would continue to be founded. It provided clinics and private practice physicians with software so popular that by 1997 over 24,000 clinics and over 110,000 physicians had used it. However, the next thing was just a fall. Medical Manager Inc instead. The Open Public License (GPL) has



appeared, which provides its users with the initial code of the software and gives them the opportunity to perform the necessary setup. One of the main problems of Medicine in all periods was the yatrogenic complications of the patient's condition, that is, those that involuntarily arise from the actions of honey. staff. For example, prescribing the wrong medication or prescribing the medication in too much or too little. Electronic medical records together with clinical decision support systems provide automated investigations to prevent such errors[3].

- Another advantage mentioned in this article is access to the database from anywhere in the world. This allows you to better coordinate the work of various specialists, consider Anamnesis and reduce the time of decision-making. And time, as we know, is a very important factor in the struggle for the life and health of the patient.
- Previously, the patient came to the doctor, he assigned him certain tests analyzes, the patient went to the laboratory, passed the appointment, passed the tests, and the results were again written on paper and had to be transferred to the doctor. This is a long process during which errors and confusion are rare. Previously, the patient came to the doctor, he assigned him certain tests analyzes, the patient went to the laboratory, passed the appointment, passed the tests, and the results were again written on paper and had to be transferred to the doctor. This is a long process during which errors and confusion are rare. Let's start with the classics - a doctor's handwriting can be unreadable, incorrect tests can be carried out, results can be lost or confused.
- This unfortunate medical handwriting brings many problems to the process of writing medicines. The pharmacist can misread the name or dosage of the drug, and this, as you understand, can lead to dire consequences. The Electronic Prescription System eliminates the possibility of such a "misunderstanding".
- Comfort is also important for patients, as they do not have to call all the clinics they visit to collect the necessary medical history. All this is stored in one patient folder.
- Electronic patient records can (and should) be backed up, etc. create backup copies. With paper notes, this is very difficult, and in reality no one has done it. Comfort is also important for patients, as they do not have to call all the clinics they visit to collect the necessary medical history. All this is stored in one patient folder.
- Electronic patient records can (and should) be backed up, etc. create backup copies. With paper notes, this is very difficult, and in reality no one has done it. For example, after Hurricane Katrina, thousands of patients lost their history and their recovery took many months.
- A large database of patients, their symptoms and diseases, methods of treatment and the recovery process - all this will help to study certain diseases, improve the methods of dealing with them.
- There is no need to spend money on the office (this is a trifle, but on a global scale the amounts will be large), a reduction in the number of employees, a reduction in time costs and, accordingly, an increase in labor. efficiency. The fact is that each clinic has its own database, which does not work with the database of other clinics. Since it is not useful to facilitate the transfer of the patient to competitors, you will understand.
- The big problem is always the confidentiality of the data. How to make sure that only the right information falls into the hands of only the right people?

Accordingly, this story needs to be entered into the database, and this is a lot of manual work that requires not only time, but also financial costs. Many clinics are not ready for this[4]. 1960-patient-computer perhaps one of the earliest ways to use computers to support physicians was through a computerized patient interview system. The reason for the creation of such a system was due to the fact that the doctor often asks incorrect questions or forgets to give the correct one when talking to the patient. Thus, history will not be complete and treatment will be ineffective. Accordingly, the formalized request will be much more effective.-patient-computer perhaps one



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Depersonalization Dr. Gail Thompson, who has been involved since the 60s, says that computerization leads us to forget that there is patient care. Doctors, relying more on diagrams and graphs on the computer monitor, forgot how to determine the patient's condition by students. Connecticut physician Stephen Angelo fully agrees. He told how one day a patient observation system was "lying down" in the hospital. Doctors gangib not knowing what to do qolishdi.Ba some doctors say that although electronic systems help to reduce the number of errors, they do not completely eliminate them. This is because a person controls this electronic system as a source of error.This cannot be denied, but the problem still remains not in the system, but in the human factor. To solve this difficulty, it is necessary to pay more attention to the upbringing of honey. staffactors gangib not knowing what to do qolishdi.Ba some doctors say that although electronic systems help to reduce the number of errors, they do not completely eliminate them. This is because a person controls this electronic system as a source of error.This cannot be denied, but the problem still remains not in the system, but in the human factor. To solve this difficulty, it is necessary to pay more attention to the upbringing of honey. staff. If employees do not know how to use the system, then, of course, all its advantages lose their meaning. As long as there is at least one person in the industry, there will be mistakes. Internet misinformation On the network, you can find many articles about various diseases, drugs, etc. Many of us have used this kind of content for self-diagnosis and even self-treatment. Of course, information is power, but only when it is correct. Many medical data on the World Wide Web contain errors. And this can lead to the fact that the patient begins the wrong treatment or simply ignores a potentially dangerous disease. This problem can only be solved by the standards of data reliability and the introduction of methods for its verification and control of publications.



**Conclusion.** The world does not stand still. Computer technology goes deeper and deeper into other areas of our life, bringing many new things, good or bad, sometimes it is difficult to say. But progress cannot be stopped only by fear of something new. This also applies to medicine. Many diseases become incurable if some brave do not decide to treat them differently than before. The main thing to remember is that a person creates technology, a person improves it, and only he can be responsible for it. Today, many clinics are moving to remote storage and processing of data. We also offer solutions for this type of client using the latest NVMe drivers, which allows you to “instantly” process queries in large databases. The main thing to remember is that a person creates technology, a person improves it, and only he can be responsible for it. Today, many clinics are moving to remote storage and processing of data. We also offer solutions for this type of client using the latest NVMe drivers, which allows you to “instantly” process queries in large databases. Data centers that include equipment meet the required levels of certification in the field of data security. The geographical distribution and isolation of modules, even in the same location, allows for the most fault-tolerant systems for this type of customer.

## **LIST OF LITERATURE**

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