

THE IMPORTANCE OF TECHNOLOGIES IN THE HEALTH SECTOR!

Abdugafur Hotamov

Associate Professor of the Samarkand branch of TAUIT named after Muhammad al-Khorazmi
abdugafurxotamov@gmail.com

Normurodova E'zoza

Master of the Samarkand branch of TUIT named after Muhammad al-Khorazmi
normurodovaezoza011@gmail.com

ANNOTATION

In this article, taking into account the hot and dry climatic conditions of the Central Asian region, huge construction facilities are being built in the desert regions of Kyzylqum, Karakum and mountainous districts. and monitoring the health of builders in constructions is important. In the desert regions, during the summer season, the temperature reaches $\max t = +60^{\circ}\text{C}$, and in the winter season, it reaches $t = -60^{\circ}\text{C}$. Today, in such cases, it is necessary to monitor the builder's health using a remote wireless network.

Keywords: Telemedicine, vaccination, infrastructure, medical aviation, diagnosis, diagnostics.

MAIN PART

In this article, taking into account the hot and dry climatic conditions of the Central Asian region, huge construction objects are being built in the Kyzylqum, Karakum desert areas and mountainous districts. and it is important to control the health of construction workers. In the desert regions, the temperature during the summer season reaches $\max t = +60^{\circ}\text{C}$, and in the winter season it reaches $t = -60^{\circ}\text{C}$. Today, in such cases, it is necessary to monitor the builder's health using a remote wireless network. Although it is not noticeable to us today, many discovery revolutions have taken place in the world. In the near future, we think they will begin to directly affect us as well. We are talking about healthcare and the application of mobile technologies in this field.



1-picture. Diagnosing the patient in 3D format

In recent years, certain works have been carried out to digitize the healthcare system. As part of the activities carried out in this direction, a number of information systems, including "Electronic polyclinic", "TMEK", "Narcological dispensary", "Psychological dispensary", "Patient", "Emlash", "Khatlov", "Birth and death" ", "PTsR-test system" and others have been launched.

It can be seen that the broad development of information and communication technologies, a new direction in the organization and provision of medical care to the population - telemedicine is being created.

Telemedicine allows you to connect in real time with qualified doctors operating in our country and experts from medical institutions of the world, to undergo online examination and receive medical advice. That is, the distance between the patient and the doctor will not be significant.

It is known that due to the geographical size of our republic, it is not possible to immediately send all patients who need diagnosis and treatment to appropriate medical centers at the district or regional level. At the same time, face-to-face consultations (consultations) and hospitalization in specialized centers are not always justified, sometimes it is enough for the attending physician to fully discuss the clinical manifestations of the disease with his colleagues in a specialized institution or with doctors of a regional medical institution.

This approach minimizes, and sometimes eliminates, the need to send a consultant to remote areas using medical aviation.



2-picture Medical history electronic viewer

As a result of the establishment of online consultation in the telemedicine system, conditions are created for online communication with mature doctors and professors. This saves both the time of the patient and the specialist-doctors, and at the same time, money.

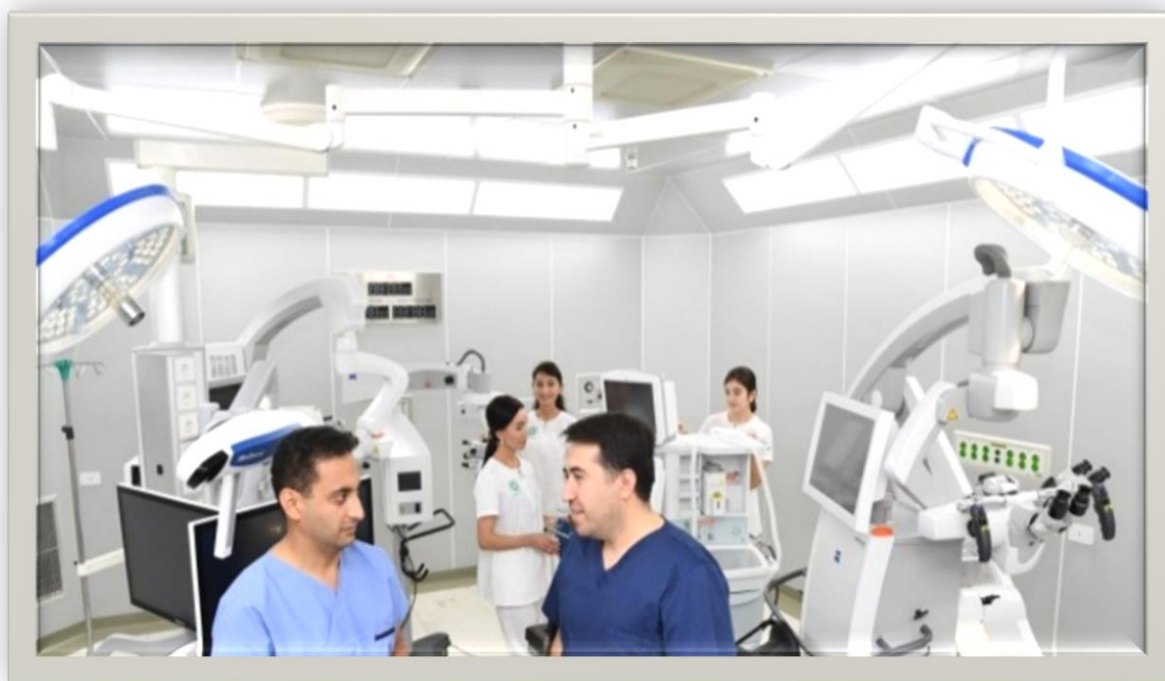
In Uzbekistan, there is a need for more active reforms in the healthcare system, in particular, in the development of primary medical care, the emergency medical care system and the network of regional diagnostic centers. In all these areas, telemedicine technologies should have a significant impact on the quality and availability of health care for the population, regardless of time, place and social status.

Today, in most developing countries, the ratio of communication between doctors and patients is much lower than the requirements set by the World Health Organization.

The main problems common to many developing countries are:

- lack of medical facilities, infrastructure and specialists in remote districts and regions;
- additional transportation costs for patients requiring diagnosis or treatment. Many deaths are due to delays in diagnosis or transport;
- lack of diagnostic centers. Until now, most local doctors refer to a specialist in person;
- internal resources, i.e., in many developing countries, there are unstable power sources, communication networks and Internet connections outside the cities, which makes it difficult to transmit data for the purposes of telemedicine consultation and treatment

Currently, Uzbekistan and other developing countries need to access these medical services and advice through an effective system that helps improve the health of their citizens. Telemedicine is the most appropriate platform to meet the real needs of these countries.



3-picture. The development of technologies in the field of health care

Telemedicine Coverage:

- electronic patient record;
- advanced specialty diagnostics;
- medical history;
- medical consultation (online / offline);
- medical reports and electronic prescriptions;
- management of pathology, radiology and pharmaceutical services through its own enterprise or suppliers;
- instructions for the next stage of treatment.

Advantages of Telemedicine:

- diagnostic and medical consultation for patients from the regions;
- low-cost, regular examination for early diagnosis of diseases;
- consultation with a doctor in real time with audio, video, statistics and patient information;
- compliance with international telemedicine standards, including confidentiality and medico-legal regulations;
- national health improvement index;
- timely submission of patient information;
- automatic creation of biometric electronic patient records;
- treat more patients more efficiently at any time.

The proposed telemedicine technology as one of the healthcare sectors needs to be viewed from a long-term and broad perspective, as its benefits and applications cannot be immediately realized, implemented, or proved to be economically viable. The further development of telemedicine should lead to the expansion of the range of tasks performed by telemedicine technology in accordance with the government's health policy.

We believe that the development of telemedicine systems and telemedicine technologies should be prioritized and supported by the state.

Conclusion

In conclusion, it should be noted that the concept of "Telemedicine technologies" should be clarified, the types of medical care that can be used using these technologies, and the list of permitted types of telemedicine activities (council, consultation, remote medical monitoring of the patient's health), development of telecommunication infrastructure, and in this direction it is necessary to improve the qualification of our doctors.

As a result of the establishment of the telemedicine service, people in the regions will have the opportunity to directly use qualified and high-quality medical services.

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