

Modern Information Technologies in Medical Diagnosis and Treatment Position

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Abstract: This article provides an opportunity to use information technologies in medicine, to determine how healthy or unhealthy human organs are, to determine exactly where the disease occurs, and to consider measures against them through medical information and modern technologies.

Keywords: Diagnostic tools, modern information technology (IT), bedside study, communication systems, online treatment.

Information processes exist in all areas of medicine and healthcare. In general, the clarity of the field and the effectiveness of its management depend on their orderliness. In this case, it is an exaggeration to say that the use of information technologies in medicine, through medical information and modern technologies, it is possible to determine how healthy or unhealthy human organs are, to determine exactly where the disease occurs, and to consider measures against them. Advances in medicine in recent decades are significantly related to advances in information technology. Modern information technology (IT) has made it possible to collect data faster, more reliably and comprehensively. These technologies have started to generate a lot of irrelevant data, which represents a real growing gap and a limiting factor between medical knowledge on the one hand and the ability of doctors to monitor growth on the other.

Moreover, in our environment, the term technology is usually reserved for its technical component. Education is the process of learning, teaching or acquiring skills or changing behavior through various exercises. Traditionally, medical education refers to the verbal, hands-on transfer of knowledge and skills from teachers to students and health care workers.

For clinical sciences, principles such as "bedside study" using medical literature are of particular importance.

In the use of information technology in medicine, it is necessary for medical staff to be able to use information technology in order to provide clinical support, and it is done through the ability to use information technology by first examining the organs to be examined.

Today, information technology is considered one of the effective ways to diagnose a disease in the human body. There are several important applications that can be implemented through these methods.

The disadvantage of these training methods is that medical personnel often do not have enough time. In addition, they are not very favorable for the horizontal and vertical integration of medical personnel, the low level of qualification and the fact that education does not correspond to the real social environment.

In this article, the authors describe the use of modern IT in medical education - their advantages and disadvantages compared to traditional teaching methods.

Advantages of medical technologies in healthcare:

1. Electronic health records of patients in hospitals:
2. Communication systems in healthcare hospitals:
3. Technology of improving healthcare in hospitals:

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4. Reducing medical errors:
5. Wearable Technology

Disadvantages of medical technologies in healthcare:

1. Automatic machine processing:
2. Showing the wrong result of the patient's condition:
3. Increase in the cost of treatment for patients:
4. Lack of information about patients:
5. Online treatment of patients through technology:
6. Damage to the cells and organs of the patient's body:

Diagnostic tools:

Ultrasound is a safe and non-invasive window into the workings of the body, providing clinicians with live images of a patient's internal organs. To take these images, trained technicians manipulate ultrasound wands and probes to direct sound waves into the body. These waves are bounced back to create high-resolution images of the patient's heart, lungs, and other deep organs.

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