

## Modern Information Technologies in Medicine

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**Abstract:** The subjects (courses) of "Medical Informatics" are continuous and logical with each other. It has been a long time since the idea that it should be connected. But, Unfortunately, up until now, "Informatics" has been studied continuously since school. It is a pity that the teaching concept has not been developed.

**Keywords:** Biological informatics, Image informatics, Clinical informatics, Health care.

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### **Fundamentals of medical informatics. Information understanding of Types of information.**

The information revolution in medicine took place in the 1940s. The first radiotelephones, the use of signaling devices, in the statistical analysis of medical results computing technologies are used. Today, medical informatics is an integral part of the healthcare system. It rests on 4 foundations:

1. Biological informatics.
2. Image informatics.
3. Clinical informatics.
4. Health care informatics.

Humanity is its development substance power throughout history and absorbing information came. This is the whole of development. One period is the advance of this stage named after the technology. For example: "stone age" – labor stone carving to make weapons the stage of mastering the technology of giving, "the age of book printing" – information the stage of mastering a new method of distribution, "electric age" - a new power. The stage of mastering types is one of them.

50-60 years ago It was said that the "Atomic Age" had begun, but now it is called the "EHM Age". We will start studying the new science "Informatics". of "Informatics Science". The origin of its three components is the algorithm, program and computing tools related to its emergence and development. Exposure of informatics information methods of recording, storage, transmission and processing is a learning science. The new courses are generally for medical students the assumption that education is necessary was not met with enthusiasm. thing, teachers and Students should focus more on small group meetings, lectures. If necessary to reduce time and have more free time solve the expression. The new courses are generally for medical students the assumption that education is necessary was not met with enthusiasm. thing, teachers and Students should focus more on small group meetings, lectures. If necessary to reduce time

and have more free time, the problem and solve the expression. 1984 National by the Association of American Medical Colleges Research medical students and their teachers serious lecture and memory It was criticized for the traditional center. Research medical students and their teachers serious lecture and memory It was criticized for the traditional center. of computer application cations, including physician General Professional Education (GPeP) (1984 American Medicine Association of Colleges), and several subsequent studies and reports, esp defined biomedical science, at panel analysis more, and doctors and other health workers who are new to the clinic

It is better to be prepared for the practice, so that the educational opportunities should be developed. AAMC in our medical schools to the formation of new educational units in biomedical informatics recommendation and further studies and reports in the field of importance and health It was still necessary to emphasize the need for its inclusion in the professional educational environment. This The reason for the strong recommendation is obvious: the practice of copper centum is indispensable for information closely related to management. Previously, the practice was such a short est hospital or medical school libraries, books, journals, and publications addressed through health information resources such as personal collections; files from patient records; consultation with colleagues; office accounting and (all too often less) Memory. These are methods immutable valuable information technology, research and information It offers new ways to sort: biographical online search engines, full-text publications, including; Computers, laptops, tablets and smartphones, personal information and frequently used gestures, Office practice and communication and health records are key to maintain elements of clinical information systems using database software; Information search and consulting systems Organize an office or clinic to help reduce the pressure of remembering in the field integration and compatibility with other aspects and other online information resources There must be a quick, practical management system for tasks It is built on the basis of the general skill of all that helps in response, but its narrow aspects. clinical practice as well as practice is the fastest in the world traditional to address evolving information management needs increasing distrust of methods such a wide for computers with its pervasive and inevitable role, It has an important subject to teach there is a lot to study in schools it became clear to people medical and other health care employees.

This topic is taught what is needed is less clear and which degree, it should be left for postgraduate studies. medical sciences and informatics also gives the inculcation of the concept of health care, education, - We bio-medical information topics in the best healthcare settings and education I believe that I have learned. Newcomers to Biomedical Computing As soon as their health education is completed, the materials are intensively studied it is likely that there will be only limited opportunities for training members Another scientific medical school that continues to reduce the main method that it will be transferred to work for its development, as well as focus on the lecture Format for biomedical informatics education, growth will be known.

Computers as a learning tool and a device for communication, problem solving, and exchange of information between students and teachers is used. At the same time, the basic content of biomedical informatics, perhaps mainly the classroom is taught. To great progress in the development and use of exposures in the words of the accomplished scientist V.M. Glushkov: technically at the beginning of the new century in developed countries, most of the information is stored in EHM memory. A person who did not know how to use this information at the beginning of the 21st century, in the 20th century in the beginning, he looks like a person who does not know how to read and write. From this learning the science of "Informatics" is equal to the second literacy. Computer science, among other sciences, serves to know the world. Every animate and inanimate being in the universe changes in space and time appears in the form of matter and energy. Matter and energy are two worlds important content, its two important components. But existence exists there is another important and necessary meaning of being and knowing it, even if it is information. Knowledge or any information about the existence that surrounds us It is called information. Information people communicate to each other orally, in writing or in other ways information provided (using conditional signals, technical means), as

well as it is a process of giving and receiving them. Exchange of information is not only about people between, but also information between a person and an exposure, between an exposure and an exposure, message (signal) exchange between animals and plants or tissue. 2. Information in knowing the world place in production and science in society. Human creative or labor activity, science and the development of technology and living beings themselves catch, any automatic operation the operation of devices with the exchange of information depends. Nowadays, information is very important. All of human activity processes information in the following areas:

- New information (newspaper, book, air waves, mirror of the world, mutual opinion exchange) takes.
- known in advance in everyday life uses information.
- creates new information (in science, literature, art);

### 3. New technology of information collection, storage and processing EHM

The emergence of mental related to the collection, storage and processing of information made it possible to automate work. Such processes automation of economic-organizational systems, technological processes creating projects for management, scientific research, study - goes into learning and other fields. Thus, it is scientific and technical the main direction of development appeared.

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