Application and Influence of Computer Technology in Medical Teaching

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Abstract. The progress of medicine can lead the development of human civilization to a great extent. There is no doubt that the progress of medicine will provide a more happy life for human beings. Nowadays, the number of doctors and nurses in our country is in short supply [1]. As our country is making every effort to develop medical cause, the task of training medical students is very important. The reform of traditional medical education has become the main topic in the medical field. The emergence of computer technology provides the dawn for the future of medical education. With the progress of computer technology, great changes have taken place in the field of medical teaching. This paper briefly introduces the theoretical knowledge of computer teaching. On this basis, this paper introduces the application and influence of computer technology in the field of medical teaching.

Keywords: Computer, Medicine, Education, Application, Influence

1. Introduction

Advances in medicine can prolong human life. The development of our social sciences cannot do without the progress of medicine. The improvement of our living standards is still inseparable from the development of medicine [2]. Without medical progress, our life safety can not be effectively guaranteed. With the rapid progress of society, the development of medicine is also speeding up the pace. The cultivation of medical students has become the primary goal of medical schools. Experts have found that the field of traditional medical teaching is progressing slowly. The reform of medical teaching can improve the efficiency of medical students' talent training. There is no doubt that this is a very obvious social phenomenon.

With the progress of computer technology, it improves the technical content of education. There is no doubt that computer technology provides more support for modern teaching technology. It has changed the traditional teaching concept (see Fig 1). Researchers have found these advantages. In order to meet the large demand of medical students in society, the application of computer technology in the field of medical teaching has been gradually developed. On this basis, experts believe that the impact of computer on the field of medical teaching is also very far-reaching. This paper mainly analyzes the theoretical research of computer technology in the field of teaching. This paper also puts forward the application of computer technology in medical teaching. This paper also puts forward its profound influence on the field of teaching.
2. Theoretical analysis of network teaching using computer technology

2.1. Research on computer based pedagogy
In fact, the educational means of network is first put forward by foreign scholars. They think the Internet can link people's thoughts. They believe that the Internet is a way of expressing human thought. MOOC technology is a virtual teaching website established by foreign technicians in the network. At present, MOOC has been introduced into China. In addition, other forms of network teaching means are also being developed.

2.2. Computer teaching is an innovative learning mode
We are always guiding students to improve their innovative thinking. There is no doubt that this is a very correct idea. Generally speaking, the form of computer network teaching is an innovative form of traditional teaching with good feasibility. It breaks the limitation of time and space in traditional teaching. In the early stage of computer teaching, it has been a lot of students' attention. This innovative learning method can effectively enrich students' minds.

2.3. Change of teaching concept in computer network teaching
Generally speaking, many students are tired of the traditional teaching mode. According to a large number of statistical studies of scholars, they found that students do not like rigid learning methods. In the traditional classroom learning, they can not cultivate their own interest. Therefore, the change of teaching concept of computer network teaching is inevitable. It aims to improve students' autonomous learning ability. Help students find a more suitable way of learning.

2.4. Current situation of medical specialty teaching by computer
In fact, the traditional medical teaching form is relatively boring. Many college students think that the number of medical courses is a lot [3]. And the knowledge structure of traditional medicine is very complex. Rigid classroom learning has been unable to meet the needs of students. After the introduction of computer teaching, great changes have taken place in many medical schools. Students can understand some important and difficult knowledge more easily.

3. The application of computer technology in medical teaching

3.1. Learning of theoretical knowledge by using multimedia technology
According to the above description, we know that many classroom learning environment is boring. Multimedia technology can use the unique combination of video and audio technology to make courseware full of visual charm (see Table 1). The psychology of college students is relatively naive.
Their hearts are pure. The courseware with visual charm can guide them to focus on learning medical knowledge. This can help them understand medical knowledge more easily.

3.2. Study of the course of solution planning with 3D software
The study of anatomy is abstract. It is very different from traditional science. The study of the human body needs a more realistic model. However, the cost of a physical model is very high. Teachers can use the 3D software of computer to make a virtual human body model. Students can understand the organization and structure of human body through virtual three-dimensional model. Students' learning will become more intuitive with visual characteristics.

3.3. Using drug database to learn drug knowledge
There are many kinds of medical books. There are also a lot of books. Students of traditional Chinese medicine think that the content of pharmacology is very complicated. Pharmacology books are also very heavy. In order to facilitate their recitation after class, teachers can make a complete drug database by computer. Drug data can be made into a complete electronic courseware. Students can query or recite the common knowledge of various drugs through mobile phones or computers.

3.4. Surgical operation learning using virtual simulation technology
The technical basis of virtual simulation technology is human-computer interaction. It pays more attention to the perfect fit of human action and computer. As we all know, surgical beginners can not successfully complete surgery. Schools can use virtual simulation technology to develop a virtual surgical system. The students can complete the operation through the virtual human-computer interaction. This can greatly enrich the surgical knowledge of students.

| Medical teaching project | Advanced technique               | Feature                     |
|--------------------------|----------------------------------|-----------------------------|
| Theoretical learning     | Multimedia video                 | Easy to understand          |
| Surgical operation       | Virtual Reality Technology        | Human-computer interaction  |
| Pharmacology             | Electronic database              | Easy to store               |
| Anatomy                  | 3D software design               | Intuitive visual experience |

4. The main strategies of the application of computer technology in the field of medical teaching

4.1. The school should strengthen the construction of computer system
In order to realize the establishment of computer teaching system, schools must strengthen the output performance of computer system [4]. Generally speaking, computer system includes software system and hardware system. The premise of updating the software system is that the computer hardware has excellent performance. The hardware system includes the core processor, graphics card and main memory capacity of the computer. Strengthening the construction of computer system is also the premise of improving the application of computer teaching.

4.2. The management of relevant medical courses should be improved
The steps of traditional medical teaching reform are complicated. After the completion of the computer system update, the relevant medical professional curriculum standards should be changed. Try to use computer technology to complete some theoretical medical courses. Some computer software operation courses can be carried out properly. In addition, teachers can also conduct some practical experiments for students through the medical teaching system of computer.

4.3. Strengthen the teaching staff of information management
In order to effectively complete the traditional medical teaching reform, the school should also strengthen the internal faculty. Although a lot of computer technology can effectively help students
learn, some senior teachers are still not good at computer system operation. Many teachers don't even know how to open the computer teaching software. Therefore, more computer talents can be introduced into schools. Schools can also provide computer training courses for some teachers.

4.4. Local government departments should attach importance to the development of information-based medical teaching

Generally speaking, many schools do not have enough financial support. They cannot buy advanced computer equipment to complete the reform of medical teaching. Our country has been emphasizing the importance of training medical students. However, some national government policies have been ignored. The government's neglect leads to the lack of sufficient funds for medical colleges and universities. This leads to a lot of schools can not update their computer equipment in time.

5. Analysis of the influence of the application of computer technology in the field of medical teaching

5.1. It enhances the efficiency of medical teaching

Generally speaking, the knowledge structure of traditional medical teaching is complex. A lot of knowledge system can not be well understood by students. Moreover, university teachers rarely listen to students' questions patiently. Using computer technology can improve the efficiency of medical teaching. It can help students master the theoretical knowledge of medicine more easily. It uses intuitive visual experience to improve students' understanding ability.

5.2. It can effectively cultivate students' ability of information-based medical data analysis

At present, many hospitals use information processing system. Medical information system includes medical examination, disease diagnosis and related physical examination items. After the patient completes the medical examination, the doctor can carefully observe the relevant test report through the computer. The application of this system in schools can effectively cultivate students' adaptability to information-based medical data processing. It can effectively improve students' analytical ability.

5.3. It can effectively improve the stability of computer technology in medical teaching

Many teachers think that it is difficult for students to learn more useful knowledge with the medical teaching supported by computer technology [5]. In fact, this idea proves that people do not want to believe in the stability of computer technology in medical teaching. Through the experiment of computer teaching in medical school, people can directly see the efficiency of students' learning knowledge. This can effectively improve the teaching stability of computer technology. It can stabilize people's restless heart.

5.4. It can effectively broaden students' horizons

In fact, the types of medical teaching resources in the network are very rich. There is a big difference between the content of these resources and the knowledge in books. It may be difficult for students to learn some extra-curricular knowledge through books. However, network teaching can help students master a lot of practical experience. According to their predecessors, many students can also resonate. Therefore, computer technology can effectively broaden the vision of medical students.

6. The main problems of the application of computer technology in the field of medical teaching

6.1. Medical curriculum pays too much attention to theoretical study

In the framework of medical knowledge, theoretical learning and practical learning are complementary. However, many medical courses now pay more attention to theoretical learning. Students' cultural achievements have become an intuitive display of their performance in school. This is very unsatisfactory. We have to add more practical courses. This can help students to review their
theoretical knowledge.

6.2. The lack of novelty of courseware
Generally speaking, students don't like rigid courseware content. This will make them more bored. The making of medical courseware needs some innovative strategies. Many schools plagiarize the relevant courseware content in the network. This leads to the novelty of courseware. It will also greatly damage the enthusiasm of students. Therefore, the school should guide teachers to make more excellent and high-quality teaching courseware.

6.3. Lack of emotional communication between teachers and students
Emotional communication between students and teachers can effectively protect students' physical and mental health [6]. In the traditional classroom of medical education, teachers can communicate with students in the form of blackboard writing. However, many school teachers in the process of class is simply reading ppt content. Their teaching seems to be accomplishing a difficult task. This also greatly reduces the emotional communication between teachers and students.

7. Conclusion
The training strategy of medical students in China is not complete. The application of computer technology in medical teaching is an inevitable stage of medical education reform. We must grasp this stage. The school must train more excellent medical students for the society.

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