Research on Reform Ideas of Basic Medical Teaching in Higher Vocational Colleges Based on Modern Information Technology

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ABSTRACT. With the development of China's market economy, the reform of personnel system and the change of social demand, the health vocational education in higher vocational colleges must actively adapt to the market demand. Curriculum directly reflects the teaching level of the school and directly affects the quality of personnel training. Information technology is widely used in all aspects of teaching reform. All kinds of application methods run through the teaching practice, application and vocational skills training. Higher vocational education should shoulder the important task of training medical practical talents needed by the grassroots. Through in-depth investigation and research, we make a conclusion that the teaching system should be reformed, while basic medicine needs more attention. The traditional manual management mode has not kept pace with the development of the information age. Based on the application of information technology in the teaching reform in higher vocational colleges, this paper analyzes the problems existing in the application of information technology in basic medicine in higher vocational colleges, and puts forward corresponding improvement ideas.

KEYWORDS: Teaching reform, Modern information technology, Basic medicine, Personnel training

1. Introduction

Curriculum construction and reform is the core to improve the quality of education and teaching, the foundation and key of professional construction, and an important method and way to improve the quality of education and teaching. Curriculum construction directly reflects the teaching level of the school and directly affects the quality of personnel training. Information technology is widely used in all aspects of teaching reform. All kinds of application methods run through the teaching practice, application and vocational skills training [1]. Curriculum setting largely determines the level of students' knowledge, skill structure and comprehensive quality. Whether the knowledge and skill structure can meet the needs of the society will directly affect the employment, working ability, knowledge innovation and continuous development of students after graduation [2]. Higher vocational education should shoulder the important task of training medical practical talents needed by the grassroots. Through in-depth investigation and research, we make a conclusion that the teaching system should be reformed, while basic medicine needs more attention [3]. Modern information technology is a combination of a series of software and hardware technologies such as digital information storage, transmission and interactive communication, with computer technology as the core [4]. The fundamental task of vocational colleges is to train application-oriented professionals who are skilled and can adapt to the needs of society. Therefore, basic medicine plays an important role in medical vocational education.

With the development of China's market economy, the reform of the personnel system, changes in social needs and other factors, health vocational education in vocational colleges must actively adapt to market needs. And curriculum reform is an effective way to meet the requirement mentioned above [5]. One of the key goals of the new medical reform plan is to provide everyone with basic medical security, and grassroots and community health care is an important way to achieve this goal. The development and popularization of information technology has provided new impetus for the teaching reform in higher vocational colleges. The application of information technology has enriched teaching methods, improved the efficiency and quality of teaching management, and shortened the gap between higher vocational colleges and key universities [6]. The course structure is composed of course setting, course hours and course content. As the workload of continuing medical education management continues to increase, it is becoming more complicated and diversified [7]. The traditional manual management model can no longer keep up with the needs of the information age. How to carry out basic medical reforms and cultivate innovative medical talents with practical operational skills has become an important issue in medical vocational education. Based on the application of information technology in the teaching reform of higher vocational colleges, this article analyzes the problems of information technology in the application of basic medicine in vocational colleges, and proposes corresponding

improvement ideas.

2. The Relationship between Information Technology and Teaching Reform in Higher Vocational Colleges

Information technology refers to the use of electronic computers and modern means of communication to obtain, transmit, store, process, display and distribute information. At present, the content of basic medicine is not closely related to clinical practice, and the teaching method is single, which results in low enthusiasm of students in experiments. All kinds of school notices and recruitment and employment information can also be transmitted and publicized through the campus network, which improves the efficiency of teaching management, enhances the effectiveness of teaching management, and improves the influence and reputation of the school. The essence of teaching reform in higher vocational colleges is the reform of educational means. The use of information technology will stimulate the innovation and change of teaching means [8]. We should make appropriate improvements to the experiments, change some confirmatory experiments into exploratory experiments, and allow students to make appropriate changes to the methods and steps of some experiments on the premise of clarifying the principles, so as to cultivate students' creative thinking. Information technology has become an important auxiliary teaching method in the teaching of higher vocational colleges with its fast and efficient information management. At present, the setting up of comprehensive experiments is one of the assessment objectives in the teaching assessment of ordinary colleges and universities. Some comprehensive experiments should be set up as much as possible to strengthen the cultivation of students' abilities. At present, there are not many teachers in higher vocational medical specialty who can really undertake the teaching of combined courses. Even if they can barely afford it, the teaching effect is not ideal.

Information technology emphasizes the application of network and computer. In school teaching management, it is managed through information management systems, such as office automation system, educational administration system, financial management system, enrollment and employment management system, etc. The current education system and teaching mode in our country are difficult to meet the strong demand of information ability training and creative ability training for talents needed in the information society. In teaching evaluation, higher vocational colleges carry out publicity through the school website and display various evaluation and inspection materials through the website. The application of information technology provides cross-time zone detection and query method for evaluation and inspection and improves the efficiency. The application of information technology in medical education and research is also a reality that medical educators must face [9]. Modern medical education requires not only compound talents with profound knowledge, mastery of modern information technology and strong practical working ability, but also practical talents who are good at collecting, analyzing, processing, disseminating and serving various information and other specific management work. The arrangement of basic medicine for some courses in colleges and universities is unreasonable. It is necessary to take students as the center and realize the teaching mode of self-training for students.

3. The Role of Information Technology in Teaching Reform

3.1 The Learning Efficiency of Theoretical Knowledge is Improved

The comprehensive quality of medical professionals is directly related to people's health and even human life. The evaluation and examination of teachers' teaching effect can be applied through information technology, which can accurately and quickly analyze the homework submitted by students, analyze and sort out the existing problems, and timely feedback the results through information technology means such as network. Students' learning of knowledge starts from feeling, and rises to thinking level through perception and memory, and finally realizes mastery. Correct expression and analysis of experimental results, careful observation of experimental phenomena, analysis and judgment, logical reasoning, etc. An experimental discussion class can be set up to bring up and discuss the mistakes, questions and abnormal phenomena observed in the usual experiments. In higher vocational education, through the display of multimedia courseware, videos, pictures and other information technology, and through the use of computer networks and other means, the knowledge content to be taught will be displayed in front of students through careful selection, design and technical processing to carry out visualization teaching. The changes in the way information is transmitted and retrieved have only changed the speed and source of information retrieval. However, the rapid increase in information has actually increased the difficulty of medical education in processing information and requires more scientific and technical information.

3.2 The Training Effect of Basic Skills is Improved

In practical skill teaching, according to the skill requirements of the corresponding specialty, multimedia courseware, computer network and other means can be used for simulation, simulation experiment and practice.

Medical higher vocational education should embody the practicality of training objectives, the professionalism of specialty setting, the pertinence of teaching contents and the practicality of teaching process. Students' practical skills are trained and improved with the help of information technology. This kind of skill training cannot be achieved by traditional teaching methods [10]. In order to achieve a seamless combination of teaching strategies based on information technology and traditional teaching, teachers need the support of schools in terms of system, supervision, management and reward [11]. The setting of basic medical courses should not only consider the systematicness, integrity and step-by-step nature of knowledge, but also should not excessively pursue systematicness and integrity. The purpose of teaching is not only to teach students the existing knowledge and skills, but also to establish learning methods for students through the learning process of knowledge, that is, autonomous learning. Students acquire various kinds of knowledge and information by using various information technology methods, which not only cultivate students' ability to use various information equipment, but also cultivate students' ability to search, process, generate and use information, as well as their immunity, self-study ability and application ability of knowledge.

4. Conclusion

The training of teachers' information technology application is mainly to let teachers set up a correct view of information technology application and pay attention to the combination of teaching content design and information technology teaching methods. Modern information technology with computer technology as its core is driving technological innovation in medical education. From a professional point of view, reasonable arrangement of the teaching content of the integrated basic medicine course is beneficial to the students' follow-up courses and to the improvement of the quality of professional personnel training. According to the requirements of higher vocational education training objectives, reforming basic medical basic medicine and establishing a certain system of professional key ability training mode are effective ways to train practical medical talents. The changes in the transmission and retrieval methods of information have only changed the speed and source of information retrieval, while the rapid increase of information has actually increased the difficulty of medical education in processing information, requiring more scientific and technical features. For the majority of teachers, it is not a question of whether to choose but how to face it, and we should correctly understand the role of information technology in medical education. Teachers must give a reasonable orientation to information technology when applying it, and must correctly handle the primary and secondary relationship between teachers' teaching and the use of information technology.

References

[1] Pan Rongbin, Chen Qiao, Liu Shengchang. Analysis of the advantages of virtual simulation platform in basic medical experiment teaching in TCM colleges. Asia-Pacific Traditional Medicine, no. 24, pp. 150-151, 2015.

[2] Zhang Guoping, Du Guofen, Zhu Zheng. The application of information technology in hospital logistics and material security. Medical Information, no. 22, pp. 14-15, 2015.

[3] Wang Xinghong, Xu Shi. Modern Information Technology Boosts Functional Experiments. China Continuing Medical Education, no. 1, pp. 23-24, 2015.

[4] Shan Lidong, Tao Jin, Jiang Xinghong. Evaluation of implementing flipped classroom teaching in basic medical courses. Chinese Journal of Medical Education, no. 1, pp. 129-133, 2018.

[5] Song Xianmei, Qian Lili, Wang Xueyin. Application of the teaching mode of information technology and curriculum integration in immunology teaching. Journal of Henan Medical College, no. 1, pp. 108-109,2015.

[6] Wu Zhihui, Cloud computing-based medical virtual experiment teaching MO class platform construction. China Higher Medical Education, no. 12, pp. 61-62, 2016.

[7] Xia Jinchan, Zhang Xiaoli, Hao Wanqing. Discussion on the role of network resources in optimizing teaching mode. Guangming Traditional Chinese Medicine, no. 1, pp. 140-141, 2017.

[8] Wei Fei, Cao Xuelin. Research on the teaching quality management model of higher medical schools based on network information technology. Journal of Binzhou Medical College, no. 3, pp. 206-207, 2016.

[9] Zhao Junqiang. Research on the key issues of the integration of information technology and middle school geography teaching. Reference for middle school geography teaching, no. 2, pp. 23-24, 2015.

[10] Yang Yi. Using mixed teaching to improve the teaching effect of basic computer courses. China Information Technology Education, no. 18, pp. 97-98, 2017.

[11] Dai Jingyao, Zhao Ya, Shen Yan. Thoughts on several issues in the construction of digital medical textbooks for higher education in China. Medical Education Research and Practice, no. 5, pp. 665-668, 2016.