

Research on the Application Ideas of Wisdom Education in Traditional Chinese Medicine Colleges under the Background of Education Informatization

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Abstract: The rapid progress of information technology has promoted the development of education informatization, which has become a key way to improve the quality of education and innovate the education system. As an important base for inheriting and developing TCM culture, TCM colleges and universities also need to keep up with the pace of The Times and actively explore the application ideas of wisdom education. Based on the background and significance of education informatization, this paper discusses the application ideas of smart education in traditional Chinese medicine colleges and universities, including the establishment of campus teaching basic status database, the use of smart education to provide digital teaching resources, the implementation of smart teaching practice based on virtual simulation platform, and the optimization of teaching evaluation means based on data analysis. These measures can effectively improve the teaching quality and efficiency of TCM colleges, train TCM talents to meet the needs of The Times, and promote the development and innovation of TCM.

Keywords: Educational informatization; Traditional Chinese medicine colleges and universities; Intelligent education

Fund Project:

Key Project of Guangxi Higher Education Undergraduate Teaching Reform Project

Project Name: Exploration and research on the construction of teaching dynamic monitoring and regulation system in local Higher Chinese medicine universities under the background of a new round of undergraduate education and teaching audit and evaluation
No. : 2021JGZ131

Educational informatization is the basic connotation and remarkable feature of educational modernization. With the rapid development of intelligent technology, it is required to build a new learner-centered education ecology guided by information technology, and promote the renewal of educational ideas and the reform of teaching system. TCM colleges and universities have their own characteristics and advantages in education informatization, such as long-term accumulation of rich TCM teaching resources, time-rich TCM knowledge system, and TCM teaching activities that pay equal attention to theory and practice, but at the same time, they also face some problems. For example, it is difficult to realize the deep integration of information technology and traditional Chinese medicine teaching, such as the lack of integration with the characteristics of traditional Chinese medicine, the lack of development ability of digital education resources, and the lack of teachers and students' ability of information technology application and innovation. Therefore, traditional Chinese medicine colleges should actively explore the path and mode of education informatization suitable for their own characteristics, and promote the deep integration of information technology and traditional Chinese medicine teaching.

1. Significance of educational informatization in TCM colleges and universities

The teaching content of TCM colleges and universities involves a variety of disciplines and majors, such as TCM, TCM, acupuncture, massage, etc., which requires a large number of TCM documents, images, videos and case resources to support. However, in view of the current information construction of TCM colleges and universities, the digitalization degree of these resources

is not high, and the network communication and sharing level is insufficient, which makes it difficult to fully meet the teaching demand. Therefore, it is urgent to establish a comprehensive education information platform integrating teaching, scientific research, management and service, and realize intelligent education by relying on information interconnection and collaborative processing. Its significance is embodied in the following aspects: First, it inherits and innovates TCM knowledge. Through the construction of TCM digital resource database, it collects, collates, saves and opens various materials such as TCM classic literature, famous works, clinical cases and academic papers^[1] to provide rich information support for TCM teaching and scientific research. Meanwhile, it utilizes big data, artificial intelligence and other technologies to mine and analyze TCM data. Discover and verify the laws of TCM, and promote the innovation of TCM theories and methods; The second is to improve the quality of professional teaching. Through the network teaching platform, the interactive communication and real-time evaluation of online TCM courses can be realized, so as to expand the teaching time and space, increase the teaching forms and means to meet the learning needs of different levels and types. At the same time, virtual simulation, remote experiment and other technologies can be used to make up for the shortcomings of practical teaching and improve the practical ability and innovation ability of students. Third, promote the development of TCM research, strengthen the allocation and utilization of scientific research resources, and use cloud computing, Internet of things and other technologies to build a sharing network of TCM research instruments and equipment, promote cross-regional and interdisciplinary research cooperation, and improve the level of scientific research and the conversion rate of results.

2. The application of wisdom education in TCM colleges and universities

2.1 Establish the basic status database of in-school teaching

One of the application ideas of smart education in Chinese medicine colleges is to establish a basic teaching status database, collect and store basic data related to teaching, such as curriculum, curriculum schedule, teachers, course selection, exam results, graduation rate, laboratory conditions, equipment conditions, and so on, to reflect the teaching scale, level, quality and characteristics of Chinese medicine colleges. Provide the foundation for the subsequent data mining and analysis. The database shall adopt unified data standards, formats and collection and update mechanism to ensure the accuracy of data, display the status data visually and clearly by combining graphical reports, and customize the presentation of graphical reports according to the needs of the school, such as the data of each major, grade, class, course opening, course selection, examination, score distribution, etc. And related teaching staff, experimental facilities, teaching materials and so on. Through horizontal and vertical analysis of various data, the data differences between different TCM colleges or different teaching stages in the same college are compared in real time, competitiveness and development trend are assessed, problems and advantages in teaching are found, which can provide reference for school teaching management and teaching work arrangement and auxiliary basis for school leaders to make decisions.

2.2 Use smart education to provide digital teaching resources

On the basis of detailed mining of teaching status data and applying it to information-based teaching practice, the online teaching resource library of traditional Chinese medicine can be further built to collect and sort out various high-quality teaching resources of traditional Chinese medicine, including courses, courseware, cases, test questions, videos, audio, images, etc., through the construction of digital teaching resource library, Integrating traditional Chinese medicine literature, lectures by famous experts, clinical cases, overseas exchanges and other forms of teaching content, to provide teachers and students with a variety of learning resources. Through the construction of intelligent teaching platform, online teaching, interactive evaluation, personalized recommendation and other functions are realized, providing teachers and students with convenient and efficient learning methods. Through the application of big data analysis technology, the teaching process and effect are dynamically monitored and evaluated to provide timely and effective feedback and guidance for teachers and students. Through the construction of an intelligent mentoring platform, the communication channel between senior TCM practitioners and young TCM practitioners can be opened to realize the functions of the experience inheritance of senior TCM practitioners, the knowledge supplement of young TCM practitioners, and two-way interaction, so as to provide high-quality and efficient mentoring relationship for teachers and students. Through the construction of innovative talents training platform, integration of scientific research resources and project information inside and outside the university, to provide teachers and students with diversified scientific research opportunities and support.

2.3 Carry out intelligent teaching practice based on virtual simulation platform

It is an important measure to adapt to the development of education in the information age to carry out intelligent teaching practice in TCM colleges based on virtual simulation, intelligent diagnosis, remote collaboration and other technologies. By building a virtual simulation experiment platform and introducing comprehensive simulation of human, functional simulation of patient, TCM health robot, syndrome simulation system, multidimensional virtual anatomy system, etc., the platform can simulate the basic

theory, diagnosis method, treatment technology and other contents of TCM, so that students can practice in a safe, efficient and flexible environment. According to the real ward layout equipment, instruments, drugs, etc., build a high simulation ward, provide a variety of diagnosis and treatment operation and nursing skills training, simulate real clinical scenes and problems, through computer software or artificial control to achieve intelligent comprehensive simulation of human vital signs changes, voice communication, facial expressions, etc., to meet the teaching needs of different majors. Practice students' clinical thinking, decision-making ability and teamwork ability in immersive experience^[2]. The experimental platform can also establish a remote collaboration network to achieve online communication and interaction between teachers and students, students and students, break the restrictions of time and space, expand teaching resources and channels, and enhance the openness and sharing of teaching.

2.4 Optimize teaching evaluation methods based on data analysis

Based on data mining, visualization analysis, intelligent recommendation and other technologies, intelligent teaching evaluation can be implemented in TCM colleges and universities to promote the improvement of teaching quality and level. This evaluation method can dynamically monitor the teaching process and effect from multiple dimensions and angles, and provide personalized guidance for teachers and students. To optimize teaching evaluation based on data analysis, we can start from the following two aspects: First, information technology is used to collect and analyze students' learning data in TCM theory, experiment, practice and other aspects, such as classroom participation, homework completion, TCM knowledge test results, experimental operation skills evaluation, clinical practice feedback, etc., so as to comprehensively understand students' TCM knowledge level, learning interests and difficulties, and form their growth files. Provide teachers with dynamic, real-time evaluation feedback; Secondly, intelligent teaching is used to form a diversified evaluation of teaching, such as carrying out data-based scale evaluation, such as online TCM knowledge questions and answers, team clinical case analysis, etc., evaluating students' learning performance from the perspective of development, forming longitudinal comparison, stimulating students' endogenous motivation, and realizing an intelligent evaluation system combining human and technology.

Conclusion

Intelligent education is an important content and development direction of educational informatization, which can effectively improve the teaching quality and efficiency of traditional Chinese medicine colleges. On this basis, the author tentatively puts forward some application ideas of wisdom education in TCM colleges and universities, aiming at providing some references and enlightenment for the construction of education informatization and the practice of wisdom education in TCM colleges and universities. In the future, TCM colleges and universities should actively explore the path and mode of wisdom education suitable for their own characteristics, and promote the deep integration of information technology and TCM teaching. Realize the goal of educational modernization.

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