

Knowledge Economy and Medical Education

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Abstract—The sustainable development is a strategic choice for Chinese advanced medical education in the era of knowledge economy. However, the sustainable development of medical advanced education has five problems that need to be solved. Only by taking corresponding countermeasures, the medical higher education goals of sustainable development can be realized. The influence of knowledge economy on medical education embodies knowledge economization, economic knowledge and integration of knowledge and economy. Of Advanced medicine education should rapidly keep up with the knowledge economy era by changing the way of thinking, the way of work and the concept of education.

Keywords—*medicine; education; advanced; economy; knowledge economy*

I. INTRODUCTION

In order to realize the sustainable development of human society, the only option is to develop and make use of science and technology. The development of the economy bases on knowledge dissemination and implementation which promote the economy into knowledge economy era. To achieve sustainable development, it is more important to thoroughly change the development of new materials and technology than to control the pollution of the environment. Science and technology can fundamentally solve the limited resources, environmental protection and the problems existing in reasonable development and sustainable utilization of material resources. At the same time, we should improve the quality of the population, optimize the structure of human intelligence and skills, and properly transform the traditional concepts and consciousness [1]. Competition has shifted from the pursuit of resources possession to the pursuit of scientific and technology. This trend has grown obvious with the consciousness enhancement of the sustainable development.

The knowledge economy era is the central task of medical education which is not only teaching knowledge, but also teaching students how to obtain knowledge. What's more, cultivating students' ability of using and creating knowledge, creative problem-solving methods, the spirit of scientific inquiry and flexible strain capacity is also important. The modern world is growing faster and more various. Anyone of us in any profession must have the ability to innovate. Otherwise, we will always be at a disadvantage. The traditional medicine education tends to ignore and even stifle the innovation ability of the students', while the quality education emphasizes on problem solving and the spirit of exploration. It

requires that medical college teachers and students have equal positions, the teacher should have rich knowledge of science, excellent moral leadership and innovative spirit to guide the student, but not as students' controllers.

II. THE IMPACT OF THE KNOWLEDGE ECONOMY

A. The Impact of the Market Economy

Especially the college students must pay college fees, as colleges and universities are introduced into the market economy. It makes college students in the ivory tower under the impact of market economy, strengthens the awareness of the material benefits and changes the past disdain the idea of money.

College students graduate from high school to college, and in each step it requires a certain amount of economic power to support them. In particular, medical students are more overcrowding and the ideal job hospital is full. In order to get a good job, some medical students are willing to pay more attention to find a good job in order to cover that investment at an early date [2].

The weight of money and values, the college students intend to money. There will be individualistic materialism, while dedication and collectivism will be left behind. Therefore, the moral education of higher medical colleges and universities under the conditions of market economy is facing serious challenges. The social morality should be cultivated and applied to interpersonal relations and career.

The characteristics of the medical profession affect the future development of the medical students. The medical profession requirement to students' professional skills is high, so the medical students in the curriculum must be after five years of study to graduate, and then even after three years of standardized training can be qualified on the job. This leads to a lot of medical students can get employment after a long time, making some medical students sick about studying.

Because the time period of medical professional learning is long, many students after graduation want to find a good job. Because the good job positions are limited, it is difficult for a lot of medical students to choose a ideal job. Most medical students want to go to big hospitals in the big cities and few students choose some county hospitals. It also leads to a gradually increasing gap between urban and rural areas in our

country in health level [3]. It will seriously affect the development of medicine and health care.

B. The Change of Modern Medicine

The rapid development of modern medical science has begun to break through the traditional biomedical framework. The new medical framework is biological - psycho-social medicine. This new view of medicine treats people as a whole, fully acknowledging and attaching great importance to the effects of psychological and social factors on human health.

In the course of the prevention and treatment of diseases, besides the biological nature of human beings, it should pay more attention to the spirit, and it is difficult to solve the psychological treatment with the knowledge of biomedical alone [5]. If combined with a doctor's affability, good verbal cues can greatly improve the effectiveness of therapy through psychological and behavioral therapy.

It has further promoted that the new model and demand of medical ethics placed before the medical staff. The task of medical personnel can't merely understand the disease of the patient, but focus on the people's physical and mental health, and strive for the happiness of mankind.

III. HIGH REQUIREMENT OF MODERN MEDICAL EDUCATION

A. The Right Learning Method

In order to cultivate the good medical ethics of medical students in advanced medical colleges, students should be encouraged to start from hard work. We should establish a clear learning motivation for learning attitude. The students should love their major and cultivate a strong thirst for knowledge.

In general, the transition from high school to medical college has changed a lot for every medical student, both in terms of knowledge structure and their role. From the learning culture of basic knowledge, it is medical professional knowledge. Difficulties in learning can directly affect academic performance. We should start from the cultivation of the good professional thought way. They will have a strong motivation to learn. It can overcome the obstacles and lay the foundation for a qualified doctor in the future.

The essence of market economic values is the starting point and end-result of individual interests. Conflicts between different interest groups inevitably manifest as conflicts of interest. When in the market economy condition, the economic main body independent of their own interests becomes a core value, it requires that each economic subject and every social member to use value for production means, in order to realize the exchange value, for the purpose of reflecting on the social consciousness [6]. It is the subjective requirement. And each member of the economic subject becomes people's values. In the condition of market economy, medical personnel are like other economic subjects, which inevitably have a self-centered value tendency.

B. The Spirits of Innovation

Innovation is found to help people obtain the achievement of the new growing point. It is more important to be good at summarizing research results of predecessors on the basis of the research work.

Innovation must have a broad knowledge accumulation. Without the knowledge of knowledge, innovation will have no foundation. In the study, both basic and clinical research involve the intersection and penetration of the branches. Especially in basic research, interdisciplinary cross and infiltration are more important.

The innovation is to break through the previous understanding in the difficulties. Hot spots and cross disciplines will help to find the breakthrough of important scientific value. Scientific inheritance is the prerequisite for scientific discovery and innovation. Among the many factors of innovation, the talent is the fundamental source of innovation. The cultivation of talents must be put in the first place.

C. To Set up a Great Ambition and Goal

However, the generation of values must have a comprehensive objective background, and different objective economic conditions produce different values. Different objective economic backgrounds of medical professionalism also have different. Different individuals with identification of the medical professional spirit also have different understandings [7]. The construction of medical professionalism needs to keep up with the time. With the development of society, the implementation of medical professional spirit in clinical practice is the requirement of social development and the progress of the time.

The main reason is that medical students don't understand the nature of medicine, so it leads the medical students to carry out social practice activities, to make medical students understand the change. To make medical students understand the different patterns of the two modes in the process of practice to conclude what kind of hospital work environment is more suitable for themselves. Through the social practice to help medical students for better choice is to choose which model of achievements in their future.

D. Medical Technical Ethics

The scientific and technological ethics will become more and more prominent. The core problem is that scientific and technological progress should serve all human beings without endangering the human self. To strengthen the research and dissemination of medical science and technology ethics, we should start from many aspects [8].

Ethical research and science and technology activities should be accompanied by a mechanism. To speed up the education and popularization of science and technology ethics, we should make medical staff attach importance to ethical issues and understand ethical knowledge.

In the promotion of ethics knowledge, supporting rules and regulations are established. The news media should play a role in the ethics propaganda. In reporting the achievements of

medical science and technology, it is necessary to let the public know the ethical issues that may exist, especially to inculcate the principles to know [9]. Of course, it should also be found that the concept of ethics has also changed with the development of society.

When the power of technology is likely to have a negative impact on humans, there is a receptive attitude towards certain technologies such as family planning and test-tube babies. For some high-tech products, people tend to be tolerant and only ask for a right to know when they do not know the adverse effects of short-term adverse effects.

E. Improve the Comprehensive Quality of Medical Workers

The comprehensive qualities of medical workers include work and learning. Human quality refers to the basic moral character of the individual. The quality of work refers to the basic work ethic, ability and basic attitude of cooperation with people.

The academic quality refers to the basic cultural literacy, professional knowledge, skills and ability, work attitude and method of learning [10]. Through continuing medical education to cultivate medical innovative talents, has become an important link of the medical science and technology progress and social development. The development of medical science and technology develops from the continuous renewal of medical knowledge. In the process of continuing medicine education, it not only improves the academic level of scientific and technical personnel, but also updates the knowledge and activates the academic atmosphere. In continuing medical education, the experts will be able to learn and understand the development and levels of international research in the field of similar research to medical workers.

In scientific research, the experts preach young workers to help to cultivate scientific spirit to make their academic level continuously improve, broaden the research train of thought and improve the ability of innovation. It makes the medical treatment unit adapt to the development of the time and the market competition to get an impregnable position in the future [11].

IV. CONCLUSION

We should adjust the discipline and professional structure of medical colleges and universities, stimulate the cross-integration of disciplines and majors, form the characteristics and advantages of the discipline and generate new growth and breakthrough points. We should establish the science and technology parks of medical colleges and universities to realize the three functions of the medical institutions in the knowledge economy era to cultivate talents, create achievements and serve the society. We also should actively promote the application of modern education technology, develop modern medical distance education, update teaching content and improve teaching methods.

Medical schools encourage region counterpart support, support regional cooperation and communication between medical colleges to achieve the strategic goal of sustainable development, promote the development of knowledge

economy. The education career should be the guide, focusing on qualified education. Medical education should promote and serve the economic construction and social development of major issues which promote medical education in the new step into the new stage of all-round development, thus to achieve the goal of the whole national economy and social development to lay the solid foundation and create security conditions.

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