

# *Research and practice of cultivating the ability of “innovation and entrepreneurship” of undergraduate nursing students in the context of “three comprehensive education”*

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**Keywords:** Three comprehensive education; Innovation ability; Entrepreneurial ability.

**Abstract:** Universities cultivate high-quality nursing innovative and entrepreneurial applied talents for the society, which has positive significance for promoting the development of medical and health care in China. In the teaching of nursing undergraduates, teachers should not only impart professional knowledge and skills, but also strengthen the cultivation and practice of students' “innovation and entrepreneurship” ability, change the traditional teaching mode of “more indoctrination, less inspiration”, emphasize the improvement of students' higher-order learning ability, and promote the development of independent learning attitude, habit and ability. From the perspective of “three comprehensive education”, this paper studies and discusses the “innovation and entrepreneurship” ability training mode for nursing undergraduates, so as to better promote innovation and entrepreneurship education in colleges and universities, improve students' comprehensive quality, and lay the foundation for future clinical work.

Chinese leaders emphasized at the 2016 National Conference on Ideological and Political Work in Colleges and Universities: We should adhere to the establishment of moral education as the central link, the ideological and political work throughout the whole process of education and teaching, to achieve the whole process of education and all-round education, and strive to create a new situation in the development of higher education in China. Carrying out innovation and entrepreneurship education is not only an important component of ideological and political education in colleges and universities, but also the main way to implement moral education, which is of great significance to improve the education level of colleges and universities and promote the quality of employment and entrepreneurship. With the development of modern medicine, people's demand for health is increasing day by day, and they expect a higher health service experience. How to adapt to the needs of social and medical development in the new era, improve and implement the whole staff and all-round work system, fully implement the national standards of nursing education quality, and strive to cultivate high-level and high-quality nursing professionals in line with the national health development strategy has become an urgent problem for nursing education in the new era. Under the background of healthy China, the society pays more and more attention to nursing professionals. Integrating innovation and entrepreneurship education into the whole process of talent cultivation, continuously improving students' innovation consciousness and

entrepreneurial ability, and cultivating high-quality nursing professionals for the society is both a responsibility given by the times and an important initiative to promote the flourishing development of medical and health care.

## **1. Analysis on the background of cultivating the "innovation and entrepreneurship" ability of nursing undergraduates**

In 2021, the number of college graduates in China will reach 9 million, an increase of 350,000 year-on-year, and a new record high<sup>[1]</sup>. Under the severe employment situation, the employment difficulty of medical undergraduates is far more than that of general college students due to the strong professionalism and narrow employment surface of medical graduates, the increase of students who continue to study in graduate schools and doctoral programs for further study year by year, and the gradual improvement of hiring standards in medical and health care institutions. How to improve the employment rate of medical undergraduates and improve the comprehensive quality of students is a question worthy of consideration for medical colleges and universities.

With the deepening of the construction strategies of "Health China", "Education Power" and "New Medical Science", the country pays more attention to the cultivation of "innovation and entrepreneurship" talents. Various government departments are actively promoting "innovation and entrepreneurship", accelerating the implementation of the innovation-driven development strategy, realizing innovation-led entrepreneurship and entrepreneurship-led employment<sup>[2]</sup>. With the expansion of China's elderly population and the liberalization of the three-child policy in some regions, the demand for elderly care, infant care, maternal care and community care is gradually increasing<sup>[3]</sup>. In the process of cultivating nursing professional talents, colleges and universities should carry out in-depth innovation and entrepreneurship education, form a whole-person, whole-process and all-round education pattern, effectively improve students' innovation consciousness and entrepreneurial ability, refine students' comprehensive quality in practice, focus on cultivating newcomers of the times who are dedicated to the health cause, and drive nursing undergraduates to high-quality employment and entrepreneurship.

"Science and technology is the first productive force", and the development of various professional fields in China is inseparable from the development of science and technology, the essence of which depends on high-quality talents with the spirit of dual creativity<sup>[4]</sup>. At present, cultivating a professional talent team with innovative and entrepreneurial spirit in nursing is an important way to help the construction of healthy China, improve the health level of residents, and meet the health needs of society<sup>[5]</sup>. However, at present, the cultivation of science and technology and the spirit of "innovation and entrepreneurship" in undergraduate nursing education in China is still immature, and it is necessary for universities to implement the concept of "three comprehensive education" and effectively cultivate the "innovation and entrepreneurship" ability of undergraduate nursing students.

## **2. Strategies for cultivating the "Innovation and Entrepreneurship" ability of nursing undergraduates in the context of "three comprehensive education"**

With the implementation of the national innovation-driven development strategy, it is an important measure to improve the quality of talent cultivation in colleges and universities, ensure the high level of employment and accelerate the process of education reform by integrating innovation and entrepreneurship education into the whole process of professional talent cultivation, based on cultivating college students' innovation consciousness, improving entrepreneurial ability and practicing entrepreneurship, cultivating high-quality "innovation and entrepreneurship" applied talents and creating a force for "mass entrepreneurship and innovation"<sup>[6]</sup>. In the process of

cultivating the ability of "innovation and entrepreneurship", colleges and universities should create a good atmosphere of innovation and entrepreneurship for students, and make the campus culture, culture and spirit more active, so as to form a situation of "innovation and entrepreneurship", and better promote students' independent and spontaneous development of innovative thinking, active practice and exploration, and promote the cultivation and development of "innovation and entrepreneurship" talents.

### **2.1. Adhere to the whole staff education, and actively play the role of "Innovation and Entrepreneurship" education team**

Carrying out innovation and entrepreneurship education under the concept of full education requires teachers and students to establish the concept of full participation and everyone's responsibility. In order to build a high-quality and high-level educating team, it is necessary to give full play to the function of educating people as counselors, to integrate the concept of cultivating "innovation and entrepreneurship" talents into daily student management, and at the same time, it is necessary to continuously improve their comprehensive quality, innovate teachers' education concept, and carry out innovation and entrepreneurship education by combining thematic class meetings and extracurricular practical activities<sup>[7]</sup>. Secondly, it is also necessary to strengthen and expand the second classroom practical and innovative activities of students, based on the "tutor-counselor-undergraduate" research education microenvironment, to promote scientific research guidance, professional development planning, consulting advice, academic frontier introduction, discipline competition training and other activities; based on the College's entrepreneurial platform, to promote the transformation of scientific and technological patent results, encourage students to start their own business, diversify and expand the path of student entrepreneurship.

In addition, the teachers of nursing courses optimize the personnel training program, revise teaching objectives, integrate curriculum resources and strengthen diversified evaluation, integrate innovation and entrepreneurship education deeply into classroom teaching, fully explore the innovative elements in nursing courses, lead students to conduct oriented learning and project research, guide students to apply for patents and publish papers, and cultivate students' comprehensive abilities of independent learning, innovative thinking and hands-on practice. Finally, from the perspective of school leaders, we can actively create a culture of innovation and entrepreneurship, carry out advanced socialist culture education, deeply promote cultural education, and create a campus culture brand with nursing characteristics, such as the "5.12 Nurses' Day" hooding ceremony, medical and nursing emergency operation simulation competition, and nurses' etiquette competition.

### **2.2. Adhere to the whole process of education, strengthen the innovation and entrepreneurship education of students at all stages of study**

Under the influence of modern education concept and the reform of China's higher nursing education, the service scope of nursing profession has been continuously expanded from clinical to many fields such as community nursing and home nursing, and it is urgent for colleges and universities to cultivate a group of high-quality composite nursing professionals who can meet the needs of people's health and social development for the society. Nursing colleges and universities should adhere to the whole process of education and carry out innovation and entrepreneurship education throughout students' learning careers to achieve better results.

First of all, we should pay close attention to entrance education, innovation and entrepreneurship education and career selection and employment education during the new students' entrance stage,

guide students to actively participate in campus activities and social practice activities, consciously exercise students' comprehensive ability in the activities, establish a sense of mission and responsibility to serve people's health, cultivate students' entrepreneurial concept and stimulate their enthusiasm for practice. Secondly, it is necessary for students to further penetrate innovation and entrepreneurship education into the teaching of professional courses during their study, For example, teachers can develop students' innovative thinking and stimulate entrepreneurial dreams in courses such as pediatric nursing, obstetrics and gynecology nursing, maternal and infant nursing, geriatric nursing<sup>[8]</sup>. At the same time, students are encouraged to actively participate in the "Challenge Cup", "Internet +" competition and college students' innovation and entrepreneurship projects, in order to cultivate and forge students' innovation and practical ability. During their internship in hospitals, students are encouraged to work attentively in clinical work, observe carefully, find problems, think diligently, and look for patentable innovation points to continuously improve the connotation of specialized nursing and innovative nursing thinking. Finally, the "innovation and entrepreneurship" education project for nursing undergraduates is highly systematic and complex, and the burden of "innovation and entrepreneurship" education is still on the shoulders of full-time teachers and the teaching format is relatively single<sup>[9]</sup>.

### **2.3. Adhere to all-round education and expand the ways of innovation and entrepreneurship education for nursing undergraduates**

At present, innovation and entrepreneurship education in colleges and universities is still based on theoretical "duck-fill" teaching, which lacks the cultivation of students' innovative thinking and practical ability, and students passively accept the instillation of teachers' knowledge, which is seriously disconnected from practice and lacks creativity and questioning spirit, which seriously restricts the development of students' innovative and entrepreneurial thinking and brings certain obstacles to the cultivation of "innovation and entrepreneurship" talents in nursing<sup>[10]</sup>. Therefore, nursing colleges should change the traditional stereotypical teaching mode, take online teaching as an opportunity to innovate teaching methods, adopt various teaching methods such as MOOC, flipped classroom, case-based teaching, online and offline hybrid teaching to realize all-round participation in innovation and entrepreneurship education teaching, open innovation and entrepreneurship education courses with nursing professional characteristics and incorporate them into credit management system, which not only enriches innovation and entrepreneurship education teaching methods, but also can effectively improve education and teaching quality<sup>[11-12]</sup>. At the same time, it makes full use of college students' innovation and entrepreneurship parks, innovation and entrepreneurship incubation bases, entrepreneurship training centers and other bases, integrate clinical hospitals, community institutions, nursing homes and other resources, build a social practice platform for "innovation and entrepreneurship" education for nursing students, and apply theoretical knowledge in practice. It can be transformed into practical ability and improve the effectiveness of innovation and entrepreneurship education<sup>[13]</sup>.

In addition, by strengthening the cooperation with affiliated hospitals, students can understand the health needs of patients, the current situation of disease management and the prospect of market development, etc., so that students can be closer to the clinic and deeply experience the clinical atmosphere, which can stimulate clinical thinking and disseminate innovative and entrepreneurial thinking. For example, Tsinghua University School of Medicine and Union Medical College implement the management model of the integration of colleges and universities. The medical school provides the Union Medical College with a strong faculty and a scientific research platform, and the Union Medical College trains high-level clinical practice talents for the Medical Academy to promote teaching and research progress. Secondly, strengthen cooperation with enterprises,

promote the deep integration of industry-university-research, strive for multi-disciplinary and multi-departmental cooperation in educating people, and combine the teaching of nursing courses and social practice activities, build a positive environment for innovation and entrepreneurship education, and explore an innovative and entrepreneurial education model with nursing characteristics<sup>[2]</sup>.

### 3. Summary

This study proposes to put the concept of "three comprehensive education" throughout the training of nursing "innovation and entrepreneurship" talents in colleges and universities, so that students can actively engage in medical innovation and entrepreneurship practice, actively serve the society and lead a healthy life for all people, which is not only important for improving students' comprehensive quality, cultivating their innovation spirit and entrepreneurial ability, promoting nursing professional curriculum reform, but also for nursing undergraduates to enter clinical work positions laying the foundation to promote higher quality employment and entrepreneurship, the shortage of nursing talents will be further improved.

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### References

- [1]Ye Yuting. *How to go from "employable" to "good job"*. *Employment and Security*, 2021(12):11.
- [2]Wang Tian, Liu Jinxiu. *Research on Innovation and Entrepreneurship Education in Medical Universities under the Background of "Internet Medical Health"—Taking Bengbu Medical College as an Example*. *Journal of Jinzhou Medical University*,2019,17(6):54-56.
- [3]Hu Hongwei, Li Yanyu, Zhang Lan. *Estimation and Prediction of Demand of Chinese Elderly Long-term Care Service*. *Chinese Journal of Population Science*,2015(3):79-127.
- [4]Li Yuanyuan. *Strategies for innovation and entrepreneurship education to help the reform and promotion of the talent training model in medical colleges and universities*. *Modern Salt and Chemical Industry*,2021,48(3):136-137.
- [5]Wang Lili. *The Development of the Combination of Medical Care and Nursing under the Background of Health Strategy*. *Lanzhou Academic Journal*,2021(12):118-130.
- [6]Ye Mingquan, Yin Rongzhang, Wang Quanhai, et al. *Innovation and Entrepreneurship Talent Cultivation of Medical Informatics Guided by "Internet + healthcare"*. *Journal of Hefei Normal University*,2017,35(3):63-66.
- [7]Ma Tianyu, Zhang Gaofeng, Xu Wen. *Implementing the "full-staff model" of practical education, cultivating innovation and cultivating innovative and entrepreneurial talents*. *Communist Party Member*, 2017(23):38.
- [8]Li Pan, Huang Zhihong. *Talking about the innovation and entrepreneurship education of nursing students in the era of innovation and entrepreneurship*. *Journal of Xiangnan University (Medical Edition)*, 2017,19(1):61-62.
- [9]Luo Xi, Liu Yuan, Luo Yuxia, et al. *Research on the cultivation path of nursing students' humanistic quality from the perspective of "three comprehensive education"*. *Modern Vocational Education*, 2021(33):72-73.
- [10]Sun Jiaomei. *Research on the application of the "Double Creation" talent training model for electronics majors under the concept of "three comprehensive education"*. *International Public Relations*, 2020(4):71-72.
- [11]Tian Rumping, Song Meng, Yan Yonghong, et al. *Based on the concept of "three comprehensive education" and using "five lessons" to construct a "double innovation" education and teaching model in traditional Chinese medicine colleges and universities*. *Beijing Education*,2019(3):94-96.
- [12]Zhang Li, Xu Ping. *The application progress of synchronous online teaching in the education of nursing students in China*. *Journal of Nurses Training*,2021,36(22):2043-2050.
- [13]Zhang Lu, Yang Qingai, Wang Ruowei. *Probe into of connotation and constituent elements of innovation ability of nursing undergraduates*. *Nursing Research*,2016,30(10):1251-1253.