Research on the Influencing Factors of Higher Nursing Education in the Connection of Clinical Practice under Computer-aided Technology

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Abstract. Higher nursing education is an integral part of medical education, which is the type of applied nursing talents based on general education. With the development of computer-aided technology, the society has put forward higher requirements on the comprehensive quality of nursing staff. How to cultivate excellent nursing team which meet clinical needs has been a common concern among nursing schools, hospitals and society. So, it is a top priority to realize the seamless connection between higher nursing education and clinical practice. When the higher education entered the popular stage, the higher vocational nursing education also obtained the vigorous development. Under this computer background, the nursing education mode reform in higher vocational colleges can timely cultivate high-quality talents needed by the society combine with computer-aided technology. Based on the connection of clinical practice, this paper takes higher nursing education as the research object and systematically studies the current reform and development of nursing education. Through theoretical guidance, we reconstruct the mode of higher nursing education.

Keywords: Higher Nursing Education Mode, Clinical Practice Connection, Computer-aided Technology

1. Introduction

Nursing education should focus on holistic nursing teaching, we should improve the Core competence of nurses as the basis of holistic nursing. In December 2003, Chinese Education Department and Public Health Ministry first outlined the core competencies of nurses in China. It is required that nursing education should follow the capability-based principle, which should integrate imparting knowledge, cultivating ability and improving quality through the whole process of school education. This plan requires that while paying attention to nursing students' professional knowledge and skills, they should focus on cultivating communication skills, interpersonal skills, critical thinking ability, teamwork...
ability, comprehensive knowledge ability and emergency response ability. Only in this way can we cultivate nursing talents with comprehensive quality and ability for the society.

2. The factors affecting and basic framework of higher vocational nursing education

2.1. Factors affecting the higher vocational nursing education

Higher nursing education is the pattern of the educational process organization and corresponding strategies. We use the higher nursing education model as a system. The system is composed by the element, it has the specific structure, the nature and the function. The influencing factors of higher nursing education mainly include the following five aspects: cultivation goal, cultivation system, curriculum system, cultivating way and quality evaluation. They are interrelated and interact with each other in the system. The influencing factors of higher nursing education is shown as the table 1.

| Influencing factors   | The content                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------|
| Training goal        | Training direction, business specifications, career scope                                     |
| Training system      | Enrollment target, education mode, teaching management system, student management system    |
| Curriculum system    | Knowledge system, skill system, quality system teaching methods                              |
|                      | (teaching, practice, graphics, probation, practice)                                          |
| Cultivating way      | Classroom teaching, training room training, clinical probation, internship, non-teaching    |
|                      | channels (extracurricular learning, extracurricular recreational and sports activities, social|
|                      | service activities, etc.)                                                                    |
| Quality evaluation   | Examination, evaluation, multiple evaluation                                                |

2.2. The basic framework of higher nursing education model

From the perspective of educational types, we can better grasp the pedagogical characteristics of nursing education personnel training in vocational colleges. The higher nursing education model is an important basis for developing nursing talent training program. Talent training program plays an important guiding role in the construction of teaching system. We must carry on the teaching, the organization and the management according to the humanist educational thought, only then can train the talented person to satisfy the social need. Higher nursing education should meet the basic requirements of practicality and adaptability. So, this paper reconstructs the model of higher nursing personnel training, as shown in figure 1.

3. Research on the reconstruction of higher nursing education model

3.1. Professional higher care teacher team
Qualified professional teachers are the guarantee of professional education. College teachers should not only have abundant knowledge, but also be able to train students' skills. Only in this way can we train our students to use their knowledge and solve practical problems. So, higher nursing education should be guaranteed by the "double-qualified" teachers. Nursing teachers should pay attention to the new trend of clinical nursing practice, so that teaching and clinical close contact. And the Nursing teachers will become a bridge between teaching and clinical. By deeply understanding clinical practice in hospitals, colleges and universities can unify classroom education and clinical nursing practice. Students have an immersive sense of the hospital, and are more suitable for clinical nursing needs. At the same time, nursing teachers should have a deep understanding of the laws and regulations, management system and working mode of nursing practice. Teachers in colleges and universities should join the medical law courses in the classroom, such as: medical accident treatment act, hospital nursing management system, quality control, nursing core system, examination management in nursing grading rules, occupational exposure protection, nursing safety, etc. Through the study of these courses, nursing students can enhance their awareness of risk responsibility. Through optimization and reform, we will establish a nursing education model to meet clinical needs.

3.2. Nursing simulation teaching

Nursing simulation teaching is one of the effective ways to deepen holistic nursing education. Nursing simulation teaching has been fully recognized and widely used in nursing teaching, mainly because it has the following characteristics: risk-free, controllable operation, and diversity of clinical cases. Nursing simulation teaching is the most reliable channel to make a good transition from school study to clinical nursing work. Nursing simulation teaching can enhance higher nursing education in the following aspects.
First, the simulation teaching enhances the initiative of nursing skill training. The simulated teaching places students in the scenario of the simulated ward, and then allows them to carry out various nursing operation training. Students can realize the interaction between simulated patients and students with the help of different diseases simulated patients. In this way, they can have a sense of reality when nursing models. And at the same time, students' learning initiative and enthusiasm will be improved. More importantly, creating a clinical atmosphere through the simulation scene is conducive to the communication between nursing students and patients, so that students can feel the clinical reality.

Second, simulation teaching can promote the development of comprehensive experimental courses. By simulating clinical situations and patients, students can flexibly apply nursing knowledge and skills. Nursing simulation teaching can conduct comprehensive training of nursing skills. At the same time, nursing simulation teaching can effectively cultivate students' comprehensive quality and comprehensive ability, such as clinical Nursing thinking ability, disease observation ability, emergency response ability, teamwork spirit, organizational management ability and so on.

Third, nursing simulation teaching is helpful to solve the practical difficulties in clinical probation. With the implementation of "regulations on the treatment of medical accidents", it is difficult for students to directly carry out nursing skills operation and training on patients, such as venipuncture, changing water seal bottle, catheterization, enema and other operations on patients. Nursing simulation teaching can train nursing skills as close as possible to the real clinical environment though simulating patients, scenes and wards[5].

4. Conclusion

Therefore, higher nursing colleges should adapt to the development of the times and promote the transformation of clinical nursing mode. Through computer-aided technology and nursing simulation teaching, colleges and universities can cultivate practical nurses with high comprehensive quality, new service concept, strong Professional thought and clinical application[6].

References

[1] Xu liang, Liu hui, Zhang weiwei, et al.Cultivation of core competence of nursing students and reform and practice of nursing practice teaching methods. Northwest medical education, 2011,19 (4) : 857-861.

[2] Chen ling. The inspiration of Swedish nursing practice teaching to Chinese nursing teaching. Journal of nurse training, 2011,26 (17) : 1592-1593.

[3] Yang ying. Exploration and practice of nursing teaching strategies[J]. Journal of nursing education, 2012, 17(5):373.

[4] Chen yueqing. Analysis and research on intensive teaching practice for nursing students in higher vocational colleges[J]. Health vocational education, 2014, 22(19):163.

[5] Wang Hongyong. K-Dimension and Hölder Exponent for Bush Type Fractal Functions[J]. Journal of Southwest Jiaotong University. 2006(04).
[6] Application of General Fractal Dimension to Coupling Fault Diagnosis[J]. International Journal of Plant Engineering and Management. 2002(03).