Application and Practice of Nursing Resource Database in Basic Nursing Teaching

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Abstract: As an important subject in medicine, nursing plays an important role in promoting the development of medicine and is also an important guarantee for the health of our people. Nursing science is separated from medicine and exists as an independent discipline. Obviously, the importance of nursing science in medicine is self-evident. The author mainly analyzes the application of nursing resource library in basic nursing teaching in detail from three aspects of nursing theory teaching, practice teaching and skill examination, and finds out the problems existing in the application process of nursing resource library in this analysis process, so as to put forward the corresponding countermeasures to solve the problems.

1. Introduction

The nursing resource database is mainly to collect information cases of various medical subjects and organize them into a rich information resource database so as to meet the needs of different medical subjects for medical knowledge. The application of nursing resource database in nursing teaching can meet the needs of nursing knowledge of nursing students of different grades.

2. The Application of Nursing Resource Database in Basic Nursing Teaching

Nursing resource database has an important influence on basic nursing teaching. This paper takes medical nursing as an example to analyze the construction content of teaching resource database for core courses of medical nursing.

Table 1 List of Contents for Construction of Teaching Resource Bank for Core Courses of Internal Medicine Nursing

1. Teaching documents	Name	1.1 criterion for curriculum	1.2 Integral design	1.3 Unit design	1.4 Evaluation method	1.5 Other
	Number	1(Yes)	1(Yes)	1(Yes)	1(Yes)	
2. Text resources	Name	2.1 Learning situation card library	2.2 Electronic teaching plan database	2.3 Case base	2.4 document database	2.5 Digital textbook or learning guide
	Number	1(Yes)	1(Yes)	10(Yes 16)	15(Yes)	1(Learning guidance)
3. Picture resources	Name	3.1 Teaching chart	3.2 Equipment chart	3.3 Scene pictures	3.4 Teaching conditions	3.5
	Number	20(Yes)	10(Yes)	10(Yes)	5(No)	
4.Animation resources	Name	4.1 2Danimation	4.2 3Danimation	4.3 Simulation operation	4.4	4.5
	Number	5(Yes)	2(Yes)	(Yes)		
5. Video resources	Name	5.1 Teaching video(<15MIN/ individual)	5.2 Auxiliary video(<15MIN/ individual)	5.3 Operation (production) site video	5.4	5.5
	Number	>3(have 6)	>2(have 6)	>2(have)		
6. Teaching	Name	6.1 Teaching courseware	6.2 Teaching and learning	6.3	6.4	6.5

courseware			courseware			
	Number	1 set(Yes)	(NO)			
7.Simulation resources	Name	7.1	7.2	7.3	7.4	7.5
	Number					
8.Item bank resources	Name	8.1Item bank	8.2 Examination paper library	8.3 Testing system	8.4 Tutoring system	8.5
	Number	1000(Yes)	10set(Yes)	Unify	Unify	
9. Network course	Name	9.1 Three screen online course	9.2	9.3	9.4	9.5
	Number	1 Set				

Data Source: According to relevant scholars' research results

2.1 The Application of Theoretical Teaching

Nursing resource base is mainly based on case resources, which includes a variety of medical case resources. The establishment of case resource base can bring rich case resources for the smooth development of medical nursing work. For newly-appointed nurses, they can learn from previous experience and effectively avoid unnecessary mistakes. In the basic nursing teaching, the establishment of the resource pool is also a great innovation, which provides very favorable teaching resources for the development of nursing teaching work [1]. The student-centered teaching mode is the reform direction strongly advocated by the education industry in our country at present. Therefore, nursing teaching is no exception. Under the traditional nursing teaching mode, teachers mainly speak all the time in class and blindly instill theoretical knowledge into students. Now the nursing teaching mode gradually changes to asking questions by students in small groups. Many medical experts advocate the application of nursing resource bank to nursing theory teaching. For each different nursing module, the required case resources are selected from the resource bank and applied to the explanation of theory class, so that students can more clearly and deeply understand the basic and profound theoretical knowledge of nursing and enhance their professional knowledge ability of nursing through the cases in the resource bank.

2.2 The Application in Practical Teaching

Nursing practice teaching pays more attention to students' practical operation ability. For example, nurses must master the basic skill of injection. In nursing practice teaching, teachers will require students to carry out real injection skill operation and repeat this practical operation activity. Thus, in the practical teaching of nursing, situational simulation is a frequently used teaching method. Situational simulation attaches great importance to the authenticity of nursing work scenes. In the practice of some nursing modules, some teachers will advocate that students role-play nurses and patients to simulate the real scenes in clinical medicine, so that students can experience the different psychological activities of nurses and patients through role-playing, so that students can have a deeper and comprehensive understanding of the psychological activities of patients, which is conducive to students' mastering nursing skills and improving their nursing practical operation ability. The nursing resource library is effectively applied to nursing practice teaching, which enables students to deal with and solve practical nursing operation problems more calmly through case study in the resource library. It can not only improve students' adaptability to solve problems, but also make the quality of nursing practice teaching realize a qualitative leap.

2.3 The Application of Skills Assessment

Nursing skills assessment is mainly to test students' mastery of professional nursing skills, to see if students can skillfully use nursing skills in actual nursing work, and to include nursing resource pool in skills assessment can improve the rigor and accuracy of skills assessment, and prevent some students from getting away with it and fishing in troubled waters. Many reputable nursing experts in the medical nursing field have proposed to establish a nursing skills assessment resource

pool, establish corresponding resource pools for different nursing skills, and apply them to the actual assessment process [2]. At the same time, according to different disease types, the corresponding real-life assessment mechanism is designed, and a comprehensive and systematic skill assessment resource bank is established to provide a variety of assessment methods for skill assessment. The establishment of the nursing resource pool has changed the traditional skills assessment methods, which is a significant innovation to the nursing skills assessment methods, increases the diversity of the nursing skills assessment methods, enables the skills assessment methods to be flexible and flexible, and is also of great help to ensure the integrity of the nursing skills assessment system.

3. The Analysis of the Problems Existing in the Application of Nursing Resource Database

3.1 Nursing Resources Material is Too Single

From the point of view of China's nursing industry at the present stage, although nursing resource banks have been established in many different kinds of medical subjects, such as surgery, dermatology, pediatrics, etc., each subject has its own resource bank, and the independent existence of resource banks among different subjects does not have too much correlation, which makes the materials in the nursing resource bank of different subjects relatively single and limited to one subject, for example, the nursing resource bank of pediatrics does not involve case resources related to surgery, and the surgical resource bank does not involve case resources of internal medicine, etc. As a result, the main resource pool has great limitations and lacks comprehensiveness. Moreover, the collection of case information in the resource bank of each subject is relatively concentrated. Because the medical knowledge involved in nursing specialty is relatively extensive, the resource bank material is too single, which will make the learning needs of students for nursing specialty knowledge not fully met, and to a large extent will seriously hinder the all-round development of nursing students.

3.2 The Nursing Resource Pool Evaluation System is Not Perfect

At present, the materials and case compilation sets in China's nursing resource database are too personalized and there is no complete standard compilation format. Due to the lack of standardized compilation format, the compilation format of cases in the resource pool is various, which makes the compilation of data in the nursing resource pool appear chaotic, thus making teachers need to spend more time looking for the data they need from the resource pool when using the nursing resource pool for teaching, and is also not conducive to learning how to effectively use the nursing resource pool for systematic learning. In addition, the overall evaluation system for the construction of the nursing resource pool is relatively lacking. Up to now, only the quality of the data in the resource pool has been evaluated. However, there is no relevant evaluation for other aspects of the construction of the nursing resource pool, such as the practical value, teaching value, literary value, etc. of the materials in the resource pool, which lack of evaluation system is very unfavorable to the subsequent construction and development of the nursing resource pool.

3.3 Lack of Information Construction of Nursing Resource Database

Information construction is the main trend in the development of the new era. However, most of our country's nursing resource libraries still use traditional paper as the carrier of resource library construction. Compared with the paper carrier, the computer internet is more convenient and fast, and paper records need to consume a lot of manpower, material resources, time costs, etc., when looking for the information they need, the process is more complicated. As the carrier of nursing resource database, computer internet can effectively save time and cost, and can also store a large amount of data information. In addition, paper materials are easy to be lost and damaged, and the use of paper texts is very detrimental to environmental protection and resource conservation. The lack of information construction of nursing resource database makes students unable to use advanced science and technology for learning, and paper as the carrier of resource database

construction cannot update the information content in time, thus making students unable to contact with advanced teaching content and learning is relatively backward and outdated nursing theoretical knowledge. The low level of use of network information is a major problem in the construction of nursing resource database in China, which needs to be improved urgently.

In the nursing resource database, cases are the main resource content, and the table ear mainly reflects the distribution of some cases of nursing professional resources.

Table 2 Distribution of Some Cases in Nursing Professional Resource Database

Subject	Case distribution
Medical Nursing	1 lung infection, 1 chronic obstructive pulmonary disease, 1 liver cirrhosis, upper gastrointestinal tract outlet 1 in blood, 1 in pancreatitis, 1 in hypertension, 1 in myocardial infarction, 1 in coronary heart disease, 1 diabetes, 1 leukemia, 1 thrombocytopenic purpura
Surgical nursing	1 thyroid disease, 1 abdominal injury disease, 2 biliary diseases, 1 breast cancer, 1 esophageal cancer, 1 appendicitis, 1 benign prostatitis, 1 duodenal ulcer 1 gastric cancer, 1 gastric perforation, 2 fractures and 1 bladder stone
Obstetrics and Gynecology Nursing	One normal delivery, one ectopic pregnancy, two hysteromyomas, one cervical cancer, two placenta previa, one premature rupture of membranes and one prolapse of uterus
pediatric nursing	One Kawasaki disease and one nephrotic syndrome

Data Source: Network Collection

4. The Nursing Resource Library Application Process Problems and Countermeasures

4.1 To Enhance the Comprehensive Nature of the Nursing Resource Pool

Nursing major is a discipline with high preciseness and accuracy. Because nursing is related to people's health, nursing major students are required to have high professional quality. The mastery of students' basic theoretical knowledge and practical operation ability are both of high standards and requirements. Students are required to be very proficient in nursing professional knowledge and at the same time can also use nursing professional skills skillfully [3]. Therefore, when collecting the data cases of the nursing resource bank, we should not be too single. We should select comprehensive resources. The nursing resource bank among various subjects should establish a certain correlation so as to integrate the theoretical knowledge among different subjects and make the nursing resource bank more comprehensive and specific. During nursing teaching, students can fully feel the richness and comprehensiveness of the nursing resource database, and can find any cases of nursing materials in the nursing resource database regardless of their needs. Therefore, enhancing the comprehensiveness of the nursing resource pool is not only beneficial to helping students learn nursing professional knowledge, but also can effectively improve the teaching effect of nursing.

4.2 Improve the Evaluation System of Nursing Resource Pool

In order to update the information in the nursing resource database in a timely and effective manner, the evaluation system of the nursing resource database must be improved so that the deficiencies and problems existing in the construction of the nursing resource database can be reflected in a timely manner. As for the evaluation system of nursing resource database, it should not only be limited to the evaluation of the quality of material cases, but also involve all aspects of the resource database, such as the practical value, teaching value, literary value, etc. In order to ensure the high quality of the nursing resource database, we must strictly control the materials and contents in the resource database. In addition, regarding the compilation format of the data in the nursing resource database, a complete and standardized standard format must be set up to unify the compilation format of the data and increase the orderliness of the data in the nursing resource database. For example, the data can be compiled according to the background, theme and specific plot of the data to ensure the preciseness and accuracy of the compilation of the data, and a little interest can also be appropriately added to stimulate the enthusiasm of students in learning nursing.

In addition, the compiled materials should also specifically indicate the applicable subject and syllabus of the materials so as to facilitate teachers and students to distinguish.

4.3 To Strengthen the Construction of Information Resources Database

Information technology is widely used in various fields. The nursing resource pool should also conform to the development and progress of the times and apply modern information technology to the construction of nursing resource pool [4]. The application of electronic information can share nursing knowledge around the world. For places where medical technology is not so developed and advanced, it can be learned through network information technology. The electronic information construction of nursing resource database mainly uses the Internet as the carrier of resource database construction, and realizes the construction of nursing resource database through information technologies such as big data and cloud computing. The use of computers to build a sharing platform for nursing resources enables nursing resources around the world to break the limitations of practice and space. In addition, the computer technology is used to set up the functions that people can read step by step when searching for nursing materials, thus enabling the nursing resource department to realize intelligent and automatic management. The application of electronic information technology enables the nursing resource database to be better applied in the basic nursing teaching and give full play to the functionality of the nursing resource database.

5. Conclusion

To sum up, the construction of nursing resource bank is a very desirable way to apply in basic nursing teaching. The application of nursing resource bank in basic nursing teaching is mainly reflected in the theoretical teaching, practical teaching and skills assessment of basic nursing. However, due to the influence of various factors, there are still big problems in the application of nursing resource database in nursing teaching, such as too single nursing resource material, imperfect evaluation system of nursing resource database and lack of informatization construction of nursing resource database. In view of these problems, measures such as strengthening the comprehensiveness of the nursing resource pool, perfecting the evaluation system of the nursing resource pool and strengthening the informatization construction of the resource pool can be taken to promote the better application of the nursing resource pool in nursing teaching.

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