

A Peer Revieved Open Access International Journal

www.ijiemr.org

# A population based case control study on breast cancer and the associated risk factors in in urban and rural setting in South India

<sup>1</sup> Prof. Edna Sweenie J.

Deputy Director & Professor, Department of Child Health Nursing, Sri Venkateswara College of Nursing, Chittoor – 517127, AP, Email: <a href="mailto:ednasweenie16@gmail.com">ednasweenie16@gmail.com</a>

#### <sup>2</sup> Lakshmi Devi,

Nursing Tutor Department of Medical Surgical Nursing Sri Venkateswara College of Nursing, Chittoor – 517127, AP, lakshmibhagvanreddy@gmail.com

<sup>3</sup> Prof. V. Sujatha,

Dean, & Professor, Department of OBG Nursing, Sri Venkateswara College of Nursing, Chittoor – 517127, AP, Email: Vallerusujatha@gmail.com

#### <sup>4</sup> S. Sujitha,

Associate Professor Department of Child Health Nursing, Sri Venkateswara College of Nursing, Chittoor – 517127, AP, Email: <a href="mailto:sujipeter@gmail.com">sujipeter@gmail.com</a>

### <sup>5</sup> T. Gayathri,

Professor Department of Medical Surgical Nursing, Sri Venkateswara College of Nursing, Chittoor – 517127, AP, Email: <a href="mailto:Gayathrit@gmail.com">Gayathrit@gmail.com</a>

**Abstract**— There are various issues with conventional nursing education, such as passive functional nursing and basic nursing, as well as limited efficacy and inability to share resources. The theoretical and operational performance of nursing instruction have been greatly enhanced via the use of information management in nursing education. Efficiencies in teaching and the satisfaction of intern nurses with instructors and departments have both improved due to improved timeliness in communication between teaching teachers and intern nurses.

### Keywords- Informationization; Nursing Teaching; DataPlatform

### 1. INTRODUCTION

In recent years, domestic institutions have boosted their expenditures in the creation of student management informationization in order to react to societal requirements and technological progress. Information technology has been extensively applied in all elements of college student work, including teaching, promotion, information collecting, daily management, inquiry and other disciplines and excellent results have been achieved[2]. References to the building of nursing clinical faculty, the production of assessment indicators and student feedback mostly characterize the current state of nursing clinical teaching information construction. [3] There is currently a lack of research on the information management of clinical nursing instruction. Keeping track of the ever-increasing



A Peer Revieved Open Access International Journal

www.ijiemr.org

number of nursing internship students is becoming an increasingly onerous task at our institution. In the old-fashioned way of operation, manual management takes place. Students' scores, which must perform numerous repetitive operations on a large number of forms, suffer from numerous drawbacks, including low efficiency, poor confidentialil and a lack of standardization in the traditional manual management method. As a result, the traditional management method is unable to meet new requirements. The clinical teaching information system that our institution has built on its own since June 2016 includes electronic modules, assessment records, online learning and objective testing systems for students, and systems for documenting the workload of instructors. Clinical interns have been using this system since 2016, and it is constantly being improved to reflect the benefits of informationization in saving manual work, optimising the clinical teaching workflow, and increasing the objectivity of student assessment as well as teacher workload through digital technology.

### 2. INFORMATIZATION MANAGEMENT

Informationization management is a process of driving industrialization through informatization, to realize modernization of enterprise management. It is a process of integrating internal and external resources of enterprises to improve efficiency and benefits of enterprises and enhance their competitiveness through integrating modern information technology with advanced management concepts, and transforming production methods, business methods, business processes, traditional management methods and organizational methods.

The essence of enterprise informationization management is information integration. Its core elements are construction of data platform and deep mining of data. Through information management system, all links such as, design, procurement, production, manufacturing, finance, marketing, and management of the enterprise are integrated, to share information and resources, and use modern technology to find their potential customers, which can effectively support the enterprise's decision-making system, achieve the purpose of reducing inventory, improving production efficiency and quality, and responding quickly, and enhance the market competitiveness of enterprises.

Change traditional enterprise management modes, implement flat management and network management, and achieve the goal of customer oriented integrated management. This requires reorganization and transformation of enterprise management, redesigning and optimizing the business processes of the enterprise, to make information transmission inside and outside the enterprise more convenient, realizing information resources sharing. It makes managers and employees, departments and enterprises communication with the outside more direct, improving management efficiency and reducing management costs.

Use information technology to effectively control and manage business flow, logistics, capital flow and information flow of a enterprise, and gradually realize simultaneous development of business flow, logistics, capital flow and information flow, and break original management pyramid system through four-flow system, to achieve a flat pipeline management mode. Through this main line to connect and rebuild digital basis of each employee, each process, each department, and meet the requirements of standardization. Enterprise leaders and managers can call all data of the departments such as production, procurement and finance at any time, that is, realizing resource sharing and real-time monitoring, and check erroneous ideas at the outset at the same time. In this way, new digital



A Peer Revieved Open Access International Journal

www.ijiemr.org

management established on the basis of new management ideas can become a solid foundation for enterprises to realize networking and informatization.

### 3. CURRENT PROBLEMS EXISTING IN CLINICAL NURSING EDUCATION

- A. There is a lack of informatization knowledge among the nursing personnel. The use of hospital information systems has made nurse information processing an essential aspect of the job. Doctors' orders, nursing expenses, nursing offices, and mobile workstations may all be managed in real time and effectively with the help of the nursing information system. Nursing and teaching informationization software is still mostly undeveloped in hospitals, and many top-level nurses lack even a basic understanding of medical terminology. There's no way to take full use of the benefits of the hospital information system in clinical teaching. "Infusion teaching" is still widely practised by teachers. There is no efficient way to cultivate students' professional capacity since many clinical teaching professors are still inexperienced with sophisticated international teaching techniques. Aiming to develop high-quality nursing personnel with information technology knowledge and skills is now a major objective.
- B. There is no networked system management in nursing education. A hospital's clinical teaching responsibilities are now rather significant. Nursing students come from many walks of life and have varying degrees of education. Manual records are still used in the hospital teaching process. The amount of time and energy nurses and nursing managers must devote to doing the same thing over and over again in clinical instruction is just too much. A computer-based nursing education system reduces doctors' workload and management costs by reducing the quantity of information they must enter and the ease with which they can do so.

### C. Using a backwards approach and way of teaching

Teachers are at the heart of the traditional educational model. A teacher's job is to explain and demonstrate what they're teaching. Only listening, watching, imitating, and following step-by-step instructions are required of nursing students. This form of education focuses only on imparting knowledge and skills. It neglects the development of nursing students' ability to observe, analyse, solve problems creatively, adapt, and update their knowledge and skills, as well as their capacity for scientific research, communication and nursing etiquette. Clinical education is now conducted in a one-on-one setting. Nursing students, by their nature, are constantly in a passive state of mind throughout the course of their education. A more optimal teaching impact is inconceivable, and cultivating creative skills is almost impossible.

### D. The comprehensiveness of the education provided to students suffers.

Nurses at our hospital's ambulatory care unit are understaffed. Currently, there are no dedicated clinical instructors for students. They are taught in part by nurses who work in clinical areas. They still have a lot of nursing work to do while lecturing. At various levels of study, nursing clinical instructors tend to emphasise majors above humanities and ethics. Professional learning, skill training, and training of diverse job and practical talents are more important to them than ideological and moral construction, mental health education, and etiquette quality training.

# 4. APPLICATION OF INFORMATIZATION TECHNOLOGY IN NURSING TEACHING



A Peer Revieved Open Access International Journal

www.ijiemr.org

### a. Management training

Every year, our hospital welcomes more than 100 intern nurses as a clinical practise site for various schools and institutions. The nursing department announces rotation forms, grouping forms, an operation training programme before entering a new department, a monthly curriculum for nursing students, teacher evaluation forms for nursing students, and nursing student evaluation forms for teachers and departments on the nursing practise teaching network in order to facilitate administration.

### b. Create a teaching strategy for your division.

To help pupils with low academic credentials and poor comprehension, teachers should tailor their instruction based on their academic abilities. Nurses in charge of intern programmes develop their own strategies and objectives based on the unique features of the interns they supervise. Web pages may be easily increased or decreased and deleted because of their flexible construction. It is possible to alter the teaching materials at any moment, depending on the needs of the nursing students.

### c. An inspection and control framework should be put in place for nursing internships

The head nurse is in charge of overseeing the weekly training of the nursing students and ensuring that it is having the intended impact. The nursing practise teaching network may be accessed before a student's internship in a particular department concludes. The internship evaluation of a group of nursing students is sent to the nursing department based on the students' practical abilities. As part of the teaching process, nursing students have access to a clinical teaching advice and suggestion column. Students' capacity to think critically, access knowledge, and come up with new ideas has grown dramatically as a result of this unique mix of education and reflection.

### d. The efficiency of learning is increased by video instruction.

Nursing students who did not complete their internships at the department were unable to learn specialised knowledge through the teaching network or via email. In order to ensure that nursing students continue to learn new knowledge and new business in the field of specialised nursing after their internship in the department, the nursing practise teaching network will announce a rotation form for nursing students, which can be easily located in the department where the nurse staff is located. Content in nursing education is dry, but multimedia technology makes it easier to learn and retain information in text, animation, video, and other formats.

### e. Use the Centra Distance Education System to the fullest extent possible.

The majority of students now enrolled in medical schools were born after the year 1990. They have a keen intellect and are adept at gaining new information through the Internet. The hospital may record all of the instructional material that nursing interns need to acquire as part of the centra remote education system, allowing students to utilise their free time to master initiative in learning. Depending on the length of the lesson or the number of students, the instructional material is broken down into portions. Students in the nursing programme have a lot of flexibility when it comes to how they study. In order to fully comprehend the material, no more education is required. In order to understand the topic, one needs listen to it over and



A Peer Revieved Open Access International Journal

www.ijiemr.org

over again. There is also a unique online answering area. There is no time limit on when nursing students may talk to their professors and acquire answers they are happy with. As a result of the shift from a conventional to an interactive method of teaching and learning, students' excitement for self-study and inventiveness increases.

### f. Create a paid internship QQ team

Students and professors may communicate more easily via the online teaching platform's BBS, but it is still unable to satisfy the demands of all-around communication in practical teaching, such as individual counselling and psychological support for nursing students. Just like BBS, the QQ group makes up for its flaws. There is evidence that many nursing students are eager to share their thoughts and feelings with clinical teaching professors through a quick-messaging group (QQ). Educators are more equipped to comprehend and support nursing students, which benefits both their professional growth and the well-being of the students they teach. Nursing students have several instructors who have taken on the roles of mentor and friend. After graduating from nursing school, many students maintain contact with their clinical professors through the QQ group. Nursing students doing an internship benefit much from their QQ group presentations.

### g. Collaboration among educators when it comes to exchanging resources

Nursing students should be guided to comprehensively and systematically identify patients' health problems and nursing points by the head nurse or the nurse team leader for each typical and difficult or critical case. As a result of the video recording of nursing instruction, a permanent teaching resource is created for nursing students to evaluate and use outside of the classroom. Repetition of observation and study may help nursing students improve their clinical reasoning abilities.

#### 5. CONCLUSION

In modern informationization society, the application of information technology is not limited to computer industry. If it can fully play its auxiliary role in nursing clinical teaching, this will improve comprehensive quality of nursing students and train more nursing talents with strong professional skills and humanities quality that meet the requirements of hospital informationization.

### Acknowledgment

**Conflicts of Interest:** The authors declare no conflict of interest.

**Funding**: The authors receive no funding for this work

**Ethical approval**: This paper has not submitted to anywhere and published anywhere. It does not contain any studies with human participants or animals performed by any one of the authors

### References



A Peer Revieved Open Access International Journal

www.ijiemr.org

- [1] Chiou, S. F., Su, H. C., & Huang, E. W. (2017). The application of information and communication technology (ICT) in nursing education. Hu Li Za Zhi, 64(6), 5-11.
- [2] Zhu, R., Han, S., Su, Y., Zhang, C., Yu, Q., & Duan, Z. (2019). The application of big data and the development of nursing science: a discussion paper. International Journal of Nursing Sciences, 6(2), 229-234.
- [3] Wu, Y., Wang, Y., & Ji, M. (2017). Competencies related to informatics and information management for practicing nurses in select countries in Asia. Stud. Health Technol. Inform, 232, 86-96.
- [4] Lenz, E. R. (2010). Measurement in nursing and health research. Springer publishing company.
- [5] Lv, Q., Zhang, Y., Li, Y., & Yu, Y. (2022). Research on the Construction of a Nursing Education Management Model Based on a Small Data-Driven Model and Its Application. Computational Intelligence and Neuroscience, 2022.
- [6] Cline, R. J., & Haynes, K. M. (2001). Consumer health information seeking on the Internet: the state of the art. Health education research, 16(6), 671-692.
- [7] Aiken, L. H., Sloane, D. M., Bruyneel, L., Van den Heede, K., Griffiths, P., Busse, R., ... & Sermeus, W. (2014). Nurse staffing and education and hospital mortality in nine European countries: a retrospective observational study. The lancet, 383(9931), 1824-1830.
- [8] Šušteršič, O., Rajkovič, V., Leskovar, R., Bitenc, I., Bernik, M., & Rajkovič, U. (2002). An information system for community nursing. Public health nursing, 19(3), 184-190.
- [9] Zhao, H., & Yang, C. (2019, August). Application of microlectures based on WeChat in rehabilitation nursing teaching. In 2019 10th International Conference on Information Technology in Medicine and Education (ITME) (pp. 291-293). IEEE.
- [10] Li, S., Gong, H., Pan, J., & Wu, X. (2021). Relationship Between Undergraduate Nursing Students' Self-directed Learning and Training Demands for Nursing Information Systems: A Cross-sectional Study. CIN: Computers, Informatics, Nursing, 39(12), 908-915.
- [11] Li, X., & Zhao, L. (2021, July). The Application of Computer Network Technology in Surgical Nursing Teaching. In 2021 International Conference on Education, Information Management and Service Science (EIMSS) (pp. 434-437). IEEE.
- [12] Lowdermilk, D. L., Cashion, M. C., Perry, S. E., Alden, K. R., & Olshansky, E. (2019). Maternity and Women's Health Care E-Book. Elsevier Health Sciences.