



## Summary

The information explosion presents a significant challenge to the nursing profession. In the near future, those who could not use computers would be as disadvantaged as those who could not read and write (**Wey et al., 2004**). Computerized technology is an important issue for healthcare professionals and organizations. The goal of computerized technology is to improve patient safety, communication and documentation, provide greater access to patient's charts, decrease paperwork, and improve patient outcomes (**Darbyshire, 2004**). Staff nurses acceptance and readiness to using computer is a key factor to successful implementation of this technology.

The present study was conducted to identify the critical care staff nurses readiness toward using computer system in nursing practice at Benha University Hospital & Benha Teaching Hospital. The study comprised all staff nurses working in critical care units during the study time, the total number was 152 nurse. Data was collected by means of a structured questionnaire was developed by the researcher based on reviewing of literature and targeted to assess staff nurses readiness toward using computer in nursing practice **it consisting of two parts:** The first part: personal data of staff nurses as their work unit, experience years, experience years at current unit, qualification, age, previous computer experience and previous using computer in work field, the second part: staff nurses readiness questioner; It consists of 49 items categorize into 7 subscales; knowledge about computer system (4items), nurses computer skills (6 items), concept of computer (19 items), benefits of computer (6items), effect computer on the quality of care (4items), barriers of



computers applying (5 items), methods of overcoming barriers of applying computer (5 items).

**The study has generated the following findings:**

1. The Benha university hospital staff nurses had more knowledge about computer system than the Benha teaching hospital staff nurses.
2. The staff nurses had moderate level of computer skills, and no internet skills.
3. Nearly all the staff nurses had a positive concept and attitude toward computer.
4. The most of the staff nurses were aware by the benefits of computer and it is important to nurses to be accept to use computer.
5. The majority of the staff nurses was agreed with the computer have an effect on the quality of patient care , and they held the view that computer will improve documentation of the clinical records.
6. Most of the studied subject was agreed with no enough computers as a barrier to computer entering.
7. Nearly all the studied subject were view that, considering use of computer as a part of work plan and providing computer programs according to nurse educational levels as a computer barriers overcome.



8. The highest percent of staff nurses were having readiness to using computer system in nursing practice.
9. There is a significant correlation between nurses readiness and their ages among staff nurses in Benha university hospital.
10. There is a significant correlation between the staff nurses readiness towards using computer in nursing practice and their nursing experience years.
11. There is highly significant positive correlation between staff nurses readiness towards using computer in nursing practice and their work years at current unit.
12. There was a significant correlation between the staff nurses readiness towards using computer in nursing practice and their qualification in Benha university hospital.
13. There was a negative correlation between nurses' readiness toward using computer and their experience of using computer.
14. There was no significant correlation between the staff nurses readiness towards using computer in nursing practice and their department.

**In the light of the findings obtained from the present study, the following points are recommended:**

**I- Recommendations for nursing administration:-**

1. Develop confidence level with information technology.



2. Plan to enhance the acceptance of changes that will occur by using the information technology.
3. Involving nurses at all stages, including planning, designing, or implementing of information technology in the work filed.
4. Encouraging all nurses to use computers, correct nurses' misconceptions and resolve actual problems following computer using.
5. Increase the nurses' basic knowledge about computer system and their understanding about computer applications and its impacts on the nursing profession.

## **II- Recommendations for hospital administration:-**

1. Adequate financial resources for equipments, connections, and rooms.
2. Organizational support includes organizing education program and giving opportunities for practical training sessions about using of computer in nursing practice for nurses
3. Generating supportive written instructions for how to use the computer system before the implementation of the new application.
4. Ease of use and flexibility of the computer system is ensured.
5. Ensuring that the computer system matches with the needs of nurses in relation to their work.
6. Ensuring guidance of computer expert.
7. Hospital policy should ask the newly employed nurses about the certification of computer training and using.

## **III- Recommendations for educational level:-**



1. Conduct training programs for the staff nurses to overcome some of their fears about computer, and teaching staff about developing electronic courses.
2. Conduct training sessions for staff nurses to handle the computer system problems.
3. Conduct training programs for teaching the staff nurses about using computer in their work filed.
4. Develop a manual about computer system being available for all staff nurses at the hospital.
5. Conduct training programs appropriate for all levels of nursing education (undergraduate/graduate) and practice (generalist/specialist).
- 6- Computer science in relation to using it in nursing practice should be teaches in nursing schools, technical health institutes and faculties' of nursing.

#### **IV- Opportunities for further research**

1. Conduct longitudinal studies to analyze the development, implementation, and evaluation, and state plans for the use of technological innovations in clinical practice environments.
2. Conduct studies to design and implement information technology activities to help nurses develop acceptance and use of information technology in their work setting.
3. Studies should be conducted regarding nurses attitudes toward technological innovations over extended periods of time.