

# The Role of Nursing Informatics in Healthcare Sector

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**ABSTRACT:** Innovation plays a significant part in the healthcare and nursing sector of today's complex health systems. So it seems important to research the task of nurses and demonstrate the need for appropriate training services in information technology to be aligned with the ever-increasing speed of technology. The criterion used for evaluating research centred mainly on healthcare informatics and the value of experience in the successful application of IT in all areas of the nursing career. The core elements of introduction of nursing informatics is regarded in a crucial evaluation of evolving technology as healthcare promotion, internet, digital devices, and network. Given the nature and evolution of information age, all types of nurses need to receive the necessary IT training. Owing to the exponential advancement of technologies, to better take advantage of computer technology in nursing result and standard of health care and encourage nurses; educational plan is advised to set up long-term and short-term customized courses focused on four target groups: senior undergraduate, research, job, intern, and doctoral degree. The result of this analysis is intended to aid in curriculum growth for educational providers.

**KEYWORDS:** Education, Healthcare Quality, Nursing Informatics, Technology.

## 1. INTRODUCTION

Nurses operated in the area of information science for almost four decades, and the word "nursing informatics" was known to be a specialty in nursing capital. Many facets have been applied to the area, including data recovery, ethics, health treatment, decision support systems, human-machine interaction, information processing, digital software, computer technology, information science, surveillance, electronic medical records, intelligent processing, tele-nursing and e-learning. Researchers have described nursing computer science as the application of IT in nursing activities, including management, schooling, and practice. The concept proposed by Researchers was the incorporation of information technology, computer science and nursing science to promote nursing practice and knowledge management. The "American Nurses Association" (ANA) released its priorities and principles and identified the Nursing Informatics as a discipline that combines computer science, clinical technology, and information science to include data processing control, expertise, and clinical practice. Now most nursing practitioners agree it is described as IT incorporation of all facets of nursing such as clinical administration, nursing, science or education [1].

### *Competencies:*

The competency of nursing informatics professionals was assessed by researching three areas namely technical expertise, experience of informatics and computing skills. It explores four stages of nursing practice: beginning nurse, seasoned nurse, expert in information science, and innovator in computer science. The following competencies have been rejected: desktop publishing, diagnostic coding, central facilities management to facilitate sharing of data and an original computer program was written. Any components of agreed competencies are briefly listed below [2].

### *Knowledge of Informatics:*

Defined computer skills are knowledge of the need or usefulness of nursing data to enhance practice and awareness of the reality that the machine may only promote nursing treatment and that there are human tasks that cannot be done by using computers, the formulation of ethical judgments in computing, the acknowledgement of the significance of the role of clinicians in computing, implementation, evaluation and selection of the system in the Health-care sector, the potential effects of computerized information management on the duty of nurses [3].

### *Computer Skills:*

Selected technical capabilities include database searches and collection of patient information details, health care management, usage of mobile tools, use of IT to enhance clinical care, and secure utilization of networks and digital technologies.

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