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REVIEW ON INFORMATION TECHNOLOGY COMPETENCY FOR NURSING INFORMATICS

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ABSTRACT

Nursing Informatics can be considered a global trend. This study was conducted to determine the necessity of Information Technology competencies for Nursing Informatics in nursing higher education. The methodology of the study was a literature review using keywords "Information Technology competency for nursing students" and "nursing informatics" The search databases, research gate, google scholar, eric, science direct, academia and ACM digital library. Inclusion criteria included research papers published in peer-reviewed journals and thesis between 2006 and 2017. Among the selected 12 research papers 4 specific papers were used to continue the study. Those 4 research papers were classified according to the year of publication, type, research, objectives, method, and conclusion. Nursing students and Nursing educators were usually competent in informatics, but not in clinical based experience. Yet the informatics competency scale scores show that, nursing students and nursing educators apparent that they were competent in three areas: "basic computer skills, informatics knowledge" and "informatics skills". The findings indicate that nursing students and nursing educators were most confident in basic computer skills such as searching the Internet, word processing, systems-operations skills. Participants also fully recognized the value and positive impact of informatics on nurses and nursing practice. Nursing students and Nursing educators were not confident in accessing or extracting information from clinical data sets (e.g., minimum data set), review of literature, electronic medical record system or as a clinician (nurse), participating in the selection process, and designing, implementing, and evaluating systems, or seeking available resources to help ethical decisions in computing. Comparison of students in the informatics experience differed considerably in general informatics competency, which may reflect students' experience in classroom teaching, computer laboratory practice would improve the clinical experience with informatics competence. Both nursing students and nursing educators needed enhance their informatics knowledge and skills, particularly their clinical based data entry and evaluation, research database-searching skills.

Keywords: Nursing informatics, Information Technology, IT Competency, Nursing Students, Higher Education