

6th World Nursing and Healthcare Conference

August 15-17, 2016 London, UK

Reflection of mobile technologies on nursing: Systematic Review

Nuray Turan¹ and Nur Güven Özdemir¹, Hatice Kaya¹¹Istanbul University, Florence Nightingale Nursing Faculty, Istanbul, Turkey

The rapid technological advances and the developments in medical science experienced since the mid-twentieth century have affected nursing. The technologies used in nursing practices and education have become quite diverse. Learning can be made permanent by presenting training materials to students at the desired location and at any time through the mobile technologies, an innovation that emerged along with the developments in educational technologies. Today, the mobile learning applications can be developed in nursing by using many features of smartphones and tablet computers such as downloading software, file storage, music and video streaming and sending e-mail over the internet. This systematic review has been planned to systematically examine the researches which can guide the nursing education and practices in terms of mobile technologies. A systematic approach to searching the literature was undertaken using identified academic databases Pubmed, Cochrane, Current Controlled Trial CINAHL and Web of Science from 2006 to 2016. The search was performed using both MeSH terms and keywords by the option 'search all text'. Within the scope of the study, a total of 169 studies were reached in the scanning performed using the keywords "nursing", "mobile technology", "mobile health" and "mHealth". Systematic reviews studies, books chapters and thesis are excluded in studies. 57 studies which were English language and full text published met the search criteria. The results obtained were collected in two groups as the effect of mobile technologies on nursing education and nursing practices. It was determined that the mobile technologies used in nursing education facilitated students' access to the evidence-based practices, ensured them to learn their existing knowledge/skills by critical thinking, and increased their motivation to learn. Within the scope of nursing practices, it was observed to be effective in extending mothers' duration of breastfeeding in the postnatal period, decreasing the pain in cancer patients, post-op patients and individuals with chronic pain, keeping obesity, diabetes, blood pressure and the infection rates of HIV under control, decreasing the use of smoking, ensuring cost effectiveness and decreasing the hospital admission rates. Furthermore, it was determined that mobile applications increased the quality of care of patients and family members, decreased nurses' diagnostic and therapeutic mistakes and increased their motivation. Mobile technologies are regarded as an innovation in nursing. The readiness levels of nurses to use information technologies have an important role in the development of nursing science. However, the small number of studies for mobile applications in nursing education is attention-grabbing. The need for increasing the number of studies regarding the use of mobile technologies in nursing education and different application areas will provide to achieve effective results in the training of students and patient care

Biography

Nuray Turan has completed her Ph.D at the age of 30 years from Istanbul University, Institute of Health Sciences. She is graduated from Istanbul University, Florence Nightingale School of Nursing. She is working at Florence Nightingale Faculty of Nursing, Department of Fundamentals of Nursing since 2005. Her areas of interest are intramuscular injection, complementary therapy, nursing informatics, nursing process and nursing care. Author and co-author of articles, books and other publications on fundamentals of nursing and leader of statutory research projects. She is member of Turkish Nurses Society, Nursing Education Society, and Graduates Florence Nightingale School of Nursing Society.

nkaraman@istanbul.edu.tr

Notes: