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Interactive Technology is Shaping Patient Education and Experience

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The evolution of knowing has been exponential in the past forty years due to the new ways of learning that have developed. Nursing practice has also greatly benefitted from these new concepts and continues to find newer and better methods to improve patient care. Through the use of information technologies and the results of research performed using these technologies nursing has begun to develop newer and better methods for bringing information to patients in order to change the pattern of empirical knowledge is founded in evidence-based research and objective experience, and has been identified as the most prevalent in nursing practice. Evidence based practice functions as the key standard for quality in nursing practice by enhancing patient outcomes. Patient education is a key component of evidence based practice because a knowledgeable and educated patient can dynamically participate in his or her own treatment, help identify errors before they occur, increase patient satisfaction and reduce the length of stay. The purpose of patient education is to increase comprehension and participation in the self-management of disease, which can improve their quality of life. Because of the complex management of many chronic diseases in today's population, patient education through interactive technology becomes a vital instrument in patient's safety and their quality of care.

Patient Education Concept

Patient education is a structured, individualized and methodical process that evaluates and conveys knowledge to patients and their families that will alter their health behaviors in order to improve their health status. Its main purpose is to maintain the health of patients, but it can also be used to help slow deterioration. Patient education is a vital component for the healthcare professionals that can facilitate clinician-patient communication, promote shared decision making based on medical evidence, assist in clinical management, and engage patients to participate in their treatment. Research studies showed that patients that are involved in their health decisions are more likely to cooperate and understand their disease process (Hibbard & Greene, 2013). Because of this reason many organizations are implementing patient education as a way to improve the quality of healthcare services that are provided. According to Cannon, et al., (2013), patient participation is an attribute of a patient's ability, skills, knowledge and motivation in managing their own healthcare while patient's engagement is a method that incorporates the activation phase with interventions designed to improve patient's behavior about their health decisions.

Discovery Research and Evidence

Over the years, patient education has slowly become a major concern and responsibility for nurses in the healthcare industry in order to help patients and their families. The importance of patient education is a product of critical study and evidence based practice by nurses that has shown that knowledge, on the part of patients and their families, can reduce re-admission rates, decrease healing time, and improve mental discomfort. Many patients have difficulty in the learning process in certain illnesses and medical procedures. Numerous studies revealed that patients do not retain the information provided from nurses, and many of them walk away experiencing confusion about the information provided. A study was performed by Farahani et al., (2013), where the researchers found that patients' anxiety levels, when the patients are discharged from the hospital, they have received insufficient information about their diseases and follow up care. According to a study done by the Agency for Healthcare Research and Quality (AHRQ) in 2005, patients with an understanding of their hospital discharge instructions were significantly more readmitted compared to the patients that are lacking the information on discharge. Other important factors that contribute to the inadequate patient education are the language barriers and health literacy. Language barriers are the biggest impediment in satisfying our culturally diverse patient populations, (Flores, Abreu, Olivar, & Kastner, 2012). Health literacy is linked to a greater use of the emergency services, increased hospitalizations, less compliance of treatment recommendation, and higher mortality rates. Nurses working with a diverse cultural group encounter daily challenges in providing care for their patients. Healthcare organizations that have a diverse patient base, must be flexible to meet patient's , create multiple challenges for nurses in ensuring patient's understanding of their illnesses and the information provided. Because nurses encounter frequent obstacles in providing successful patient education, healthcare workers will need to implement a more comprehensive patient education system that would benefit the patient populations and their families.

Innovation

Patient education has changed noticeably throughout the past forty years, where the biggest change has been the shift from a paternalistic decision making for the patient what is best for their care, to a practice of patient empowerment where treatment decisions are made in cooperation. Traditional patient education relies on written material about disease processes, medications, medical management, and self-care instruction (Glanville, 2011). Interactive technology integrates the technique in which patients are educated about their healthcare while eliminating the traditional health pamphlet provided before discharge, leaving the patient uninformed. Today, patients benefit from many forms of education including television, watching a video, looking on the internet for information, and using the latest technologies for more information. Interactive technology is an innovative and an emerging healthcare delivery model that emphasizes providing educational and entertainment resources to the patient on the premise that a more involved patient will result in a positive experience. The interactive technology system is designed to be patient centered around