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Teaching patient safety in simulated learning: Application in chemotherapy medication safety

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Chemotherapy medications are high-risk drugs and even minor negligence may endanger patient safety. New nursing staff lack experience in the administration of chemotherapy medication, which is an unfamiliar process and errors can easily lead to adverse drug events. Application of situated simulation teaching includes Skills, Simulation and Critique (SSC). These components are instilled through four teaching components: (1) Technical exercises: Through videos, teaching and practice of chemical delivery techniques. (2) Situational simulation: Key events that lead to alarm events in violation of patient safety are added to the situation and the entire simulation learning process is recorded. (3) Learning critique: Observe peer performance and record whether the peer has performed important behavioral and safety procedures based on a critique form. (4) After-class review: Teachers and students examine video content, discuss case focuses, patient safety principles, student performance and the impact of negligent clinical work. The situated simulation teaching yielded the following results. First, new nurses learned safe drug delivery behavior and were able to identify negligence in patient safety in contextual simulations. Second, teaching and training satisfaction was 95%. Third, there was a slight decline in the rate of administration of chemical treatment. This requires long-term observation and future research. Application of situational simulation teaching allows new nurses to view patient safety in simulated situations, enabling them to have unforgettable learning experiences. This learning approach enhances the ability of new nurses to administer chemical treatments. Moreover, satisfaction with teaching and training is improved, along with patient safety and nursing quality.

Biography

Shu-Fen Chen has completed her Master's degree from National Yang-Ming University. She is currently a Doctoral candidate at the School of Nursing. She also serves as a Deputy Director of the Shuang-Ho Hospital, Nursing Department and responsible for the education of nursing staff.

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