Emergency Airway Management Course for Nurses Using High-Fidelity Simulation in Korea

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Introduction

There has been a tremendous growth in the use of high-fidelity simulator (HFS) in Korea. Nursing education is also undergoing a paradigm change as well. But no certain action was taken trying to achieve this paradigm shift. The parallel growth of HFS and nursing education shift resulted in a course on emergency airway management for nurse.

Methods

The Korean Emergency Airway Management Society is a non-profit group dedicated to education and research in airway management. Group of emergency physicians and emergency nurses gathered together to develop the course for nurses. It is a one day course consisting of didactic lectures (Airway Anatomy & Physiology, Rapid Sequence Intubation), skill stations (basic airway maneuvers, rescue airway devices, postintubation management strategies) and simulation training (head trauma, pediatric, asthma, pregnant, shock, using nondepolarizing neuromuscular agent). There were 30 and 23 participants for each two courses, respectively. The preand post-course score on whether the simulation improved their confidence and knowledge for airway nursing was also done using the 5-point Likert scale.
Results

The scores for overall satisfaction, interest, and recommendation to others were 4.1±1.1, 5.0±1.1, and 5.0±1.1, respectively. Improvement was observed between the pre- and post-course survey on confidence (1.8±1.2 to 2.6±0.8) and knowledge (1.5±0.9 to 2.6±1) for the simulation cases.

Discussion

High-fidelity patient simulation is becoming an essential component of nursing education. The use of HFS and other forms of simulation provide a valuable adjunct to traditional clinical nursing education. Korea nursing education has yet to utilize simulation in emergency airway nursing education. This course was the first of its kind in Korea. The curriculum was developed with emergency nurses with prior experience in airway simulation training. This helped us develop a program that we think was ‘fit for purpose’ for the nurses.