

Effect of the Endotracheal Care Nursing Guideline Utilization on the Incidence of Endotracheal Tube Displacement, Oxygen Deficiency after Extubation, Re-intubation, and Nurses Satisfaction

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Abstract : Endotracheal displacement is a major risk of life threatening among critically ill patients. Standard nursing protocol is needed to minimize this risk and to improve clinical outcomes. To evaluate the effectiveness of the endotracheal care nursing guideline. The incidence rates of endotracheal displacement, oxygen deficiency after extubation, re-intubation, and nurse's satisfaction on the utilization of the endotracheal care nursing guideline. An evidence-based nursing practice framework was used to develop the endotracheal care nursing guideline. The guideline valid content was review by a 3 panel of experts. The index of item objective (IOC) of the guideline was 0.93. The guideline was implemented in 130 patients (guideline group) and 19 registered nurses at a medicine ward, Had Yai hospital, Thailand. Patient's outcomes were evaluated by comparison with those 155 patients who received the routine nursing care (routine care group). Descriptive statistics, frequency, percentage, mean, standard deviation and Mann Whitney U-test was analyzed using the computer program. All significantly and better outcomes were found in the guideline group compared to the routine care group. The guideline group has less incidence rates of endotracheal displacement (1.54 % vs 9.03 %, $p < 0.05$), and none of the guideline group had oxygen deficiency after extubation (0 % vs 83.33%) compared to the routine care group. All of the 2 patients in the guideline group, compared to 6 of 14 patients in the routine care group were re-intubation. The overall rate of re-intubation in the total group ($n = 130$ vs 155) was seen less in the guideline group than the routine care group (1.54 % vs 3.87). Overall, nurses satisfaction was at high-level (89.50%) on the utilization of the guideline.

Keywords : endotracheal care, nursing guideline, re-intubation, satisfaction

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