

## Development of Clinical Nursing Practice Guideline to Prevent Infection During Intubation in Suspected or Confirmed Covid-19 Patients

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**Abstract :** The purposes of this research and development was to develop and evaluation of clinical nursing practice guideline (CNPG) for the prevention of infection during intubation in patient with suspected or confirmed COVID-19 patient. This study was developed by using the evidence based practice model of Soukup (2000) as a conceptual framework. The study consisted of 4 steps: 1) situational analysis of intubation service in patients with confirmed COVID-19, 2) development the CNPG, 3) apply the NPG to trial, and 4) evaluation of the NPG. The sample consisted of 52 nurse anesthetists and 25 infected or suspected COVID-19 patients. The research instrument consisted of 1) CNPG, 2) the nurses anesthetist opinion questionnaire to the guideline, 3) the evaluation practice form, and 4) the nurse anesthetist knowledge test on nursing care of patients infected with COVID-19. Data were analyzed by using descriptive statistics, and Wilcoxon matched-pairs signed rank test. The results found that this developed NPG consists of 4 sections: 1) NPG for Preventing Airborne Infection Prevention 2) preparation of anesthetic and intubation equipments 3) roles and duties of the intubation team 4) guidelines for intubation in suspected or confirmed COVID-19 patients. The result found that 1) provider: using NPG in providers revealed that nurse anesthetist had higher mean of knowledge scores than before using NPG statistically significant at the 0.05 level ( $p < 0.01$ ) and able to follow the NPG 100% in all activities. The anesthetic team was not infected with COVID-19 from intubation outside operating room. 2) Client: the patient was safe, no complications from intubation. Summary CNPG to prevent infection in intubation of suspected or confirmed COVID-19 patient was appropriate and applicable to practice.

**Keywords :** nursing practice guideline, prevention of infection, endotracheal intubation, COVID-19

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