Title: Enhancing the ABCDE Bundle implementation adherence rate through nurse education in the ICU
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Abstract (250 words)

Background- Morbidity and mortality rates increase each day a patient remains intubated, therefore, weaning from mechanical ventilation is a life-saving approach. It is however challenging for clinicians to determine a patient’s readiness for extubation. Studies have found that the awakening and breathing coordination, delirium monitoring/management, and early exercise/mobility (ABCDE) Bundle is an effective tool to manage the duration of intubation in intensive care unit (ICU) patients.

Objective- The purpose of this pre-post quality improvement project was to enhance the adherence rate of implementing the ABCDE Bundle in the ICU by increasing nurse’s knowledge.

Methods- Data were obtained from 38 nurses in the ICU. The scores on the Knowledge and Impediments Survey were analyzed using paired t- test. The ABCDE chart documentation rate was analyzed using t-test and STATA software.

Results- A total of 44 patients were included in the pre-intervention and 60 patients were part of post-intervention of this project. Patients were mostly white (50.0 % pre intervention and 48.0% post intervention and female (50.0 % pre and 53.3% post intervention) with a mean age of 63.7 years pre and 59.9 years post intervention. Patients were admitted to the ICU for different medical and surgical reasons, with the highest percentage admitted for acute respiratory failure (11.4% pre and 18.3% post-intervention).

Conclusion- Nurses play a crucial role in supporting patient’s safety and improving the quality of care in ICU’s. Based on the project’s findings, ICU nurse education is an effective intervention to improve the adherence rate of implementing the ABCDE bundle implementation.
Key words: ABCDE bundle, Adherence rate, Intensive Care Unit.