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# PROCEEDING

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# COMPARING THE EFFECTS OF OPEN AND CLOSED ENDOTRACHEAL SUCTION ON HAEMODYNAMIC PARAMETER ON PATIENT HOSPITALIZED IN THE INTENSIVE CARE UNIT AT RUMAH SAKIT UMUM DAERAH ULIN BANJARMASIN

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## ABSTRACT

**Background:** Installation of Endotracheal Tube (ETT) in patients in ICU often causes problems, one of them is the accumulation of secretions. Undertaking suction is the way to tackle this issue. There are two types of suction techniques, namely the technique of open suction and closed suction. The open suction technique, is done by removing the patient from the mechanical ventilator while closed technique is done without removing the patient from the ventilator. However, suctioning action is known to alter the patient's haemodynamic parameter. Also, Suction is known to change the patient's hemodynamic parameter, therefore, it needs to be considered before performing the procedure. The objective of this study is to compare the changes in haemodynamic parameters for the implementation of open suction and closed suction measured on patients in ICU.

**Method:** A quantitative research with a focus on comparative method with cross sectional approach was used as the research framework. The number of samples were 10 participants, 5 patients were given open suction and 5 patients were given closed suction. The sampling technique used was accidental sampling. The instruments of data collection were observation sheet, hypothesis test using paired sample t-test.

**Results:** There was a significant difference in haemodynamic parameters after the implementation of Open Suction technique (heart rate, SpO<sub>2</sub>), whereas no significant changes in haemodynamic parameters after the implementation of Closed Suction.

**Conclusion:** Closed suction is recommended for the patient in the ICU room because the stability of haemodynamic.

Keyword: *Open Suctioning, Closed Suctioning, Parameter Haemodynamic*