

RELATIONSHIP BETWEEN SUCTION DURATION WITH OXYGEN SATURATION AND RESPIRATORY FREQUENCY IN INTENSIVE CARE UNIT (ICU) PATIENTS OF RSUD NGUDI WALUYO WLINGI

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ABSTRACT

Suction is an important procedure in the care of critical patients in the Intensive Care Unit (ICU) who often experience ineffective airways due to secretions. This procedure can have physiological effects such as changes in oxygen saturation values and respiratory rates, especially if the duration is not right.. Research purposes to analyze the relationship between suction duration and oxygen saturation and respiratory rate in patients in the Intensive Care Unit (ICU). The design used in this study is a non-experimental quantitative study with a cross-sectional approach. The total sample used was 43 patients who were installed with ventilators in the Intensive Care Unit (ICU) of RSUD Ngudi Waluyo Wlingi.. Research result shows the results of the *Spearman Rank* correlation test of the relationship between suction duration and oxygen saturation, the p-value obtained was $0.213 > 0.05$, so it can be concluded that there is no significant relationship. The results of the correlation test of the relationship between suction duration and respiratory rate obtained a p-value of $0.045 < 0.05$, so it can be concluded that there is a significant relationship. Based on the results of the research that has been conducted, it was found that there is a relationship between suction duration and respiratory rate in patients in the Intensive Care Unit (ICU).

Keywords: Suction duration, Oxygen saturation, Respiratory frequency