

**THE EFFECT OF CHEST PHYSICAL THERAPY USING CLAPPING
AND VIBRATION TECHNIQUES TO IMPROVING OXYGEN
SATURATION IN PATIENTS WITH HEMORRHAGIC STROKE (CVA
ICH) POST-OPERATIVE VP SHUNT WHO ARE ON MECHANICAL
VENTILATION IN THE ASOKA ICU
AT DR. SOEPRAOEN TYPE II HOSPITAL**

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ABSTRACT

Patients with cerebrovascular accident intracerebral hemorrhage (CVA ICH) who have undergone ventriculoperitoneal (VP) shunt surgery and are on mechanical ventilation are at risk of decreased oxygen saturation due to reduced level of consciousness, an ineffective cough reflex, and accumulation of secretions in the airways. These conditions can impair gas exchange and increase the risk of respiratory complications. One nursing intervention that can be implemented is chest physiotherapy using clapping and vibration techniques to help mobilize secretions, thereby keeping the airways patent and improving oxygenation. The purpose of this scientific paper is to describe the application of nursing care through chest physiotherapy using clapping and vibration techniques to improve oxygen saturation in patients with intracerebral hemorrhage (ICH) following VP shunt surgery who are on mechanical ventilation in the Asoka ICU at Dr. Soepraoen Level II Hospital. The method used was a case study employing the nursing process approach, which includes assessment, nursing diagnosis, planning, implementation, and evaluation. Interventions were carried out in accordance with the Indonesian Nursing Intervention Standards (SIKI), with oxygen saturation monitored before and after the procedure. The results of the intervention showed an increase in oxygen saturation from 95% before the intervention to 97% after the intervention, accompanied by a reduction in secretions and improved airway clearance following chest physiotherapy combined with suction as indicated. Thus, chest physiotherapy using clapping and vibration techniques can be an effective nursing intervention to help improve oxygen saturation in patients with intracerebral hemorrhage (ICH) who are on mechanical ventilation.

Keywords: ICH-CVA, chest physical therapy, clapping, vibration, oxygen saturation, mechanical ventilator.