

**THE IMPLEMENTATION OF CHEST PHYSIOTHERAPY ON
OXYGENATION STATUS IN PEDIATRIC PATIENTS WITH
PNEUMONIA IN THE CEMPAKA HCU WARD OF
DR. MOEWARDI GENERAL HOSPITAL**

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ABSTRACT

Background; *Pneumonia is an inflammation of the lungs caused by microorganisms (bacteria, viruses, fungi, parasites). This disease affects the lower respiratory tract, characterized by symptoms of cough and shortness of breath, which can impact oxygenation status. Pneumonia is the leading cause of death in children worldwide.* **Objective;** *This implementation method employs a quantitative descriptive approach with a case study design involving two pediatric patients with pneumonia in the Cempaka HCU Ward of Dr. Moewardi General Hospital.* **Methods;** *This implementation method utilized a one-group pretest-posttest design on two pediatric patients diagnosed with pneumonia in the Cempaka HCU Ward of Dr. Moewardi General Hospital.* **Results;** *Following the administration of chest physiotherapy intervention twice daily for three days, with a duration of 10-15 minutes each session, a significant improvement in the children's oxygenation status was observed. This was indicated by a decrease in respiratory rate, an increase in oxygen saturation, a change in adventitious breath sounds from rhonchi to vesicular, and the ability to expectorate sputum.* **Conclusion;** *Chest physiotherapy is effective in clearing the airways, improving oxygen exchange, and increasing blood oxygen levels in pediatric patients with pneumonia.*

Keywords; *Pneumonia, Chest_Physiotherapy, Oxygenation_Status*