

Warm Steam Inhalation with Eucalyptus Oil to Address Ineffective Airway Clearance in Children with Bronchopneumonia in the Arimbi Ward Ngudi Waluyo Regional Hospital Wlingi

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ABSTRACT

Background: Increased secretion production in pediatric patients with bronchopneumonia is a respiratory issue that affects breathing and oxygen exchange. One non-pharmacological measure that can help loosen and facilitate the expulsion of secretions is warm steam inhalation with eucalyptus oil. Objective: To provide nursing care for a pediatric patient with bronchopneumonia experiencing ineffective airway clearance by implementing warm steam inhalation with eucalyptus oil in the Arimbi Ward of Ngudi Waluyo Wlingi Regional General Hospital (RSUD). Method: A descriptive study using a single case study approach. The research subject was a 6-year-old pediatric patient with a medical diagnosis of bronchopneumonia. Data collection was conducted over three days (May 20–22, 2026) through interviews, observation, physical examination, and document review. The success of the nursing intervention regarding ineffective airway clearance was measured based on Indonesian Nursing Outcome Standards (SLKI) and validated through physical examination. Results: Following the nursing intervention of warm steam inhalation with eucalyptus oil, objective data demonstrated improved airway clearance, evidenced by reduced coughing, easier sputum expectoration, decreased rhonchi, and a respiratory rate reduction from 37 breaths/minute to 34 breaths/minute. Conclusion: The application of warm steam inhalation with eucalyptus oil helps address ineffective airway clearance in children with bronchopneumonia.

Keywords: *bronchopneumonia, warm water vapor inhalation, eucalyptus oil, ineffective airway clearance, children.*