

## The Role of Pulmonary Resection in Complicated Primary Pediatric Pulmonary Tuberculosis: An Evidence-Based Case Report

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**Abstract :** Introduction: Pediatric pulmonary tuberculosis (TB) incidence was increasing, with many undetected cases. In complicated TB, treatment should consist of returning pulmonary function, preventing further complications, and eliminating bacteria. Complicated TB management was still controversial, and surgery was one of the treatments that should be evaluated in accordance with its role in the treatment of complicated TB. Method: This study was an evidence-based case report. The database used for the literature search were Cochrane, Medline, Proquest, and ScienceDirect. Keywords for the search were 'primary pulmonary tuberculosis', 'surgery', 'lung resection', and 'children'. Inclusion criteria were studies in English or Indonesian, with children under 18 years old as subject, and full-text articles available. The assessment was done according to Oxford Centre for evidence-based medicine 2011. Results: Six cohort studies were analyzed. Surgery was indicated for patients with complicated TB that were unresponsive towards treatment. It should be noted that the experiments were done before the standard WHO antituberculosis therapy was applied; thus, the result may be different from the current application. Conclusion: Currently, there was no guideline on pulmonary resection. However, surgery yielded better mortality and morbidity in children with complicated pulmonary TB.

**Keywords :** pediatric, pulmonary, surgery, therapy, tuberculosis

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