



# Community-Based Asthma Management Programmes in South African Slums: Patient Control Scores and Utilization Outcomes

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### Abstract

This study addresses a current research gap in Medicine concerning 0. Community-Based Asthma Management Programs for Children in South African Slums: Patient Control Scores and Medical Care Utilization Outcomes in South Africa. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. 0. Community-Based Asthma Management Programs for Children in South African Slums: Patient Control Scores and Medical Care Utilization Outcomes, South Africa, Africa, Medicine, case study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African, Community-Based, Asthma, Management, Control, Utilization, Care

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