



# Migrant Workers' Healthcare Access on Indian Ocean Islands in South Sudan: An Intervention Study

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## Abstract

This study addresses a current research gap in Medicine concerning Migrant Workers' Access to Healthcare Services: A Case Study in Indian Ocean Islands in South Sudan. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. 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. Migrant Workers' Access to Healthcare Services: A Case Study in Indian Ocean Islands, South Sudan, Africa, Medicine, intervention 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:** Maliotic, Healthcare Access, Migration, Interventions, Community Health, Epidemiology, Anthropometry

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