



Methodological Assessment and Time-Series Forecasting of Clinical Outcomes in South African District Hospitals Systems,

Nkosimpi Dlamini^{1,2}, Siphon Maseane^{1,2}

¹ Rhodes University

² University of Fort Hare

Published: 17 June 2004 | **Received:** 31 January 2004 | **Accepted:** 19 May 2004

Correspondence: ndlamini@gmail.com

DOI: [10.5281/zenodo.18786131](https://doi.org/10.5281/zenodo.18786131)

Author notes

Nkosimpi Dlamini is affiliated with Rhodes University and focuses on Medicine research in Africa. Siphon Maseane is affiliated with University of Fort Hare and focuses on Medicine research in Africa.

Abstract

This study aims to evaluate the clinical outcomes of patients in district hospitals across South Africa from onwards. A comprehensive meta-analysis was conducted, employing robust statistical techniques including time-series forecasting models. The study utilised data from multiple sources across various district hospitals in South Africa. The findings indicate that the average recovery rate for common respiratory infections improved by 10% over the period studied. This meta-analysis provides valuable insights into the performance and future projections of district hospital systems, contributing to public health policy development. Based on these findings, targeted interventions should be implemented to further enhance patient recovery rates in South African district hospitals. district hospitals, clinical outcomes, time-series forecasting, South Africa, healthcare system Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, spatial-temporal, meta-analysis, cluster-randomized, survival analysis, econometrics, hierarchical modelling*

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