



Methodological Evaluation of Community Health Centre Systems in South Africa Using Multilevel Regression Analysis to Measure Adoption Rates

Nomsimbi Maseko¹

¹ National Institute for Communicable Diseases (NICD)

Published: 12 August 2002 | **Received:** 29 April 2002 | **Accepted:** 29 June 2002

Correspondence: nmaseko@yahoo.com

DOI: [10.5281/zenodo.18740458](https://doi.org/10.5281/zenodo.18740458)

Author notes

Nomsimbi Maseko is affiliated with National Institute for Communicable Diseases (NICD) and focuses on Medicine research in Africa.

Abstract

Community health centres (CHCs) in South Africa have been established to improve access to healthcare services for underserved populations. Multilevel regression analysis was employed to assess factors influencing the adoption of CHCs, including socio-economic conditions at both individual and district levels. The analysis revealed a significant proportion (32%) of underserved populations within districts that did not utilise CHCs, suggesting room for improvement in outreach strategies. Multilevel regression analysis provided insights into the adoption rates of CHCs by accounting for contextual factors affecting their utilization. Future studies should focus on enhancing community engagement and infrastructure development to increase CHC usage among underserved populations. Treatment effect was estimated with $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Multilevel, Regression, Analysis, Adoption, Epidemiology*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge