



Methodological Evaluation of Community Health Centre Systems in South Africa: A Randomized Field Trial for Yield Improvement Assessment

Nkosana Msimang¹

¹ Graduate School of Business, UCT

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Correspondence: nmsimang@aol.com

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Author notes

Nkosana Msimang is affiliated with Graduate School of Business, UCT and focuses on Medicine research in Africa.

Abstract

Community health centres (CHCs) in South Africa play a crucial role in healthcare delivery. However, their effectiveness and efficiency require rigorous evaluation. A mixed-methods approach was employed, including quantitative data collection from patient surveys and qualitative interviews with healthcare providers. Data were analysed using descriptive statistics and inferential statistical methods to assess the yield improvement in CHCs. Patient satisfaction scores increased by an average of 15% after the intervention, indicating improvements in service quality. The randomized field trial demonstrated that targeted interventions can lead to significant yield improvements in CHC operations and patient care. Future research should explore scalability and sustainability of these findings across different regions of South Africa. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, randomized controlled trial, yield assessment, community health centers, public healthcare systems, evaluation methodology, data triangulation*

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