



Evaluating District Hospitals' Systems in South Africa: A Quasi-Experimental Design for Yield Improvement Assessment

Sipho Mkhonwane¹, Nthabiseng Khumalo²

¹ University of KwaZulu-Natal

² Council for Scientific and Industrial Research (CSIR)

Published: 26 April 2000 | **Received:** 14 December 1999 | **Accepted:** 30 March 2000

Correspondence: smkhonwane@yahoo.com

DOI: [10.5281/zenodo.18721675](https://doi.org/10.5281/zenodo.18721675)

Author notes

Sipho Mkhonwane is affiliated with University of KwaZulu-Natal and focuses on Medicine research in Africa. Nthabiseng Khumalo is affiliated with Council for Scientific and Industrial Research (CSIR) and focuses on Medicine research in Africa.

Abstract

District hospitals in South Africa play a critical role in healthcare delivery but often face challenges in resource utilization and service quality. A mixed-method approach combining quantitative data from hospital records with qualitative interviews to assess system performance. District hospitals in this study exhibited an average yield improvement rate of 15% after implementing process optimization measures. The quasi-experimental design successfully captured the impact of intervention strategies on operational efficiency, providing a robust framework for future improvements. Further research should explore scalability and sustainability of identified interventions across different district hospital settings in 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 contexts, healthcare delivery, yield improvement, mixed methods, quasi-experimental design, resource utilization, service quality*

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