



Methodological Evaluation of Community Health Centre Systems in Ethiopia Using Quasi-Experimental Design to Assess System Reliability

Mekdes Debella¹

¹ Addis Ababa University

Published: 10 December 2012 | **Received:** 27 June 2012 | **Accepted:** 23 October 2012

Correspondence: mdebella@yahoo.com

DOI: [10.5281/zenodo.18944148](https://doi.org/10.5281/zenodo.18944148)

Author notes

Mekdes Debella is affiliated with Addis Ababa University and focuses on Medicine research in Africa.

Abstract

Community health centres in Ethiopia are crucial for providing healthcare services to underserved populations. However, their reliability and effectiveness vary significantly across different regions. A mixed-method approach was employed, including quantitative data analysis through statistical regression models and qualitative interviews. The study used a difference-in-differences (DID) model for causal inference. The DID model revealed a significant positive effect of implementing standardised training programmes on service quality improvement in community health centres by 25%. The quasi-experimental design provided robust evidence for the reliability and effectiveness of community health centre systems, with specific contributions to policy-making and resource allocation. Standardised training programmes should be prioritised to enhance service quality uniformly across all community health centres in Ethiopia. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, quasi-experimental design, community health systems, programme evaluation, reliability assessment, healthcare access, performance measurement*

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