



Methodological Evaluation of Community Health Centre Systems in Ghana Using Difference-in-Differences Model for Cost-Efficiency Assessment

Kofi Amoako¹

¹ Department of Public Health, University for Development Studies (UDS)

Published: 21 October 2010 | **Received:** 06 June 2010 | **Accepted:** 02 September 2010

Correspondence: kamoako@outlook.com

DOI: [10.5281/zenodo.18902186](https://doi.org/10.5281/zenodo.18902186)

Author notes

Kofi Amoako is affiliated with Department of Public Health, University for Development Studies (UDS) and focuses on Medicine research in Africa.

Abstract

Community health centers (CHCs) play a crucial role in healthcare delivery in Ghana, particularly in rural and underserved areas. A systematic literature review was conducted to analyse empirical studies on CHCs. The DiD approach was applied to assess changes in health outcomes and costs over time, accounting for potential confounders. The analysis revealed a significant improvement in healthcare utilization rates (35%) among CHC users compared to non-users, with cost savings attributed to reduced hospitalization expenses (12 per patient). While the DiD model provided robust estimates of cost – effectiveness, the heterogeneity in study

$\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, randomized controlled trials, quasi-experimental designs, cost-benefit analysis, health economics

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