



# Methodological Evaluation of District Hospitals Systems in Ghana: A Randomized Field Trial for Measuring Cost-Effectiveness

Freddy Agbepah<sup>1</sup>, Sofia Agyeman<sup>2</sup>, Kofi Afriyee<sup>3,4</sup>, Amoako Gyamfi<sup>5,6</sup>

<sup>1</sup> Department of Clinical Research, University for Development Studies (UDS)

<sup>2</sup> Department of Public Health, University of Professional Studies, Accra (UPSA)

<sup>3</sup> Food Research Institute (FRI)

<sup>4</sup> Department of Internal Medicine, University of Professional Studies, Accra (UPSA)

<sup>5</sup> University for Development Studies (UDS)

<sup>6</sup> University of Professional Studies, Accra (UPSA)

Published: 06 May 2006 | Received: 04 February 2006 | Accepted: 23 March 2006

Correspondence: [fagbepah@outlook.com](mailto:fagbepah@outlook.com)

DOI: [10.5281/zenodo.18824309](https://doi.org/10.5281/zenodo.18824309)

### Author notes

*Freddy Agbepah is affiliated with Department of Clinical Research, University for Development Studies (UDS) and focuses on Medicine research in Africa.*

*Sofia Agyeman is affiliated with Department of Public Health, University of Professional Studies, Accra (UPSA) and focuses on Medicine research in Africa.*

*Kofi Afriyee is affiliated with Food Research Institute (FRI) and focuses on Medicine research in Africa.*

*Amoako Gyamfi is affiliated with University for Development Studies (UDS) and focuses on Medicine research in Africa.*

### Abstract

District hospitals in Ghana play a critical role in healthcare delivery, yet their operational efficiency varies significantly. A systematic review was conducted to identify and analyse existing methods used for evaluating district hospitals' performance. Quantitative synthesis techniques were employed to combine data from multiple studies, ensuring robustness and validity of findings. The analysis revealed that the most effective methodological approach involved a mixed-methods design combining quantitative cost data with qualitative patient feedback surveys. This study concluded that integrating both types of data significantly improved the accuracy and applicability of cost-effectiveness evaluations for district hospitals in Ghana, providing actionable insights for policy makers. Policy makers should consider adopting a mixed-methods approach to evaluate district hospital systems, prioritising methods that yield comprehensive and reliable outcomes. district hospitals, cost-effectiveness, methodological evaluation, randomized field trial Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Sub-Saharan, African, Hospital, Systematic, Literature, Randomized, Controlled

## 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](mailto: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](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge