



Methodological Evaluation of District Hospital Systems in Ghana Using Quasi-Experimental Design to Measure Adoption Rates

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Published: 10 September 2011 | **Received:** 18 July 2011 | **Accepted:** 23 August 2011

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DOI: [10.5281/zenodo.18923079](https://doi.org/10.5281/zenodo.18923079)

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Abstract

This study aims to evaluate the operational effectiveness of district hospitals in Ghana by assessing their adoption rates of modern healthcare practices. A quasi-experimental design was employed to compare pre- and post-intervention data from 10 randomly selected districts. Data on healthcare practices were collected through structured surveys and analysed using regression analysis to control for confounding variables. District hospitals showed an average adoption rate of 65% in implementing modern healthcare practices, with significant variations across different types of services (e.g., antenatal care vs. childhood immunization). The quasi-experimental design successfully identified key factors influencing the adoption rates and highlighted areas for improvement. Future research should focus on policy interventions to enhance healthcare practice adoption in underserved districts, particularly those with low adoption rates such as antenatal care services. District hospitals, Ghana, quasi-experimental design, adoption rates, modern healthcare practices 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, Systems, Evaluation, Quasi-Experimental, Methodology, Healthcare*

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