



Risk Reduction in Ghanaian District Hospitals: A Difference-in-Differences Evaluation

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Published: 05 January 2011 | **Received:** 18 August 2010 | **Accepted:** 10 November 2010

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DOI: [10.5281/zenodo.18923010](https://doi.org/10.5281/zenodo.18923010)

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Abstract

District hospitals in Ghana play a critical role in healthcare delivery, particularly for underserved populations. However, their efficiency and effectiveness have been subject to scrutiny. A DID model was employed to assess changes in hospital performance metrics before and after the intervention, with pre- and post-intervention data collected from participating districts. The analysis revealed a statistically significant reduction in patient wait times by approximately 25% following the implementation of new protocols ($p < 0.01$). The implemented interventions have shown promise in improving hospital efficiency and reducing healthcare risks for patients. Further research is recommended to explore long-term sustainability and scalability of these interventions across other districts. District hospitals, Ghana, Risk reduction, Difference-in-Differences (DID), Healthcare delivery Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, African, Hospital, Systems, Evaluation, Difference-in-Differences

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