



Methodological Evaluation of District Hospitals Systems in Ghana Using Panel Data for Risk Reduction Measurement

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Abstract

This study examines district hospitals in Ghana to evaluate their systems and assess risk reduction measures through a methodological evaluation. A mixed-methods approach was employed, integrating quantitative panel-data estimation techniques. The study utilised a two-stage least squares (2SLS) regression model to analyse the impact of various healthcare reforms on patient outcomes, incorporating robust standard errors to account for potential omitted variable biases. Panel data analysis revealed that district hospitals in Ghana have seen a modest reduction in hospital-acquired infections by 15% over a five-year period, with significant variations among regions. The study concludes that while there has been progress in reducing healthcare risks, further targeted reforms are needed to address disparities and ensure equitable access to quality care across the country. Recommendations include prioritising training programmes for healthcare workers, enhancing infection control protocols, and implementing telemedicine solutions to improve remote patient monitoring. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *West African, panel data, econometrics, healthcare management, risk assessment, qualitative research, cross-sectional analysis*

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