



Methodological Evaluation of District Hospitals Systems in Ghana Using Quasi-Experimental Design for Risk Reduction Measurement

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Abstract

District hospitals in Ghana face challenges in implementing effective health interventions. A quasi-experimental design was employed to assess the impact of standardised protocols on patient outcomes. Data collection included pre- and post-intervention assessments using Likert scales for patient satisfaction and standardised error margins. Patient satisfaction scores increased by 15% (95% CI: 8%, 23%) after the implementation of new care protocols, indicating improved healthcare delivery efficiency. The quasi-experimental design successfully identified areas where district hospital systems could be optimised for better patient outcomes and risk reduction. District hospitals should consider implementing standardised care protocols to enhance service quality and reduce health risks. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African, Quasi-experimental, Evaluation, Systematic, Intervention, Methodology, Public Health

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