



# Methodological Evaluation of District Hospitals Systems in Ghana: Quasi-Experimental Design for Yield Improvement

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## Abstract

District hospitals in Ghana play a crucial role in healthcare delivery but face challenges in service provision. A quasi-experimental design was employed to assess the impact of various interventions on patient outcomes, using data from 20 district hospitals across Ghana. Significant improvements in outpatient throughput were observed with a mean increase of 15% (95% CI: 8-23%) after implementing standardised care protocols. The quasi-experimental design demonstrated the effectiveness of targeted interventions, leading to measurable yield improvement in district hospitals. Further research should focus on long-term sustainability and scalability of implemented measures. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, healthcare delivery, quasi-experimental, evaluation, methodology, efficacy, resource management*

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