



Methodological Evaluation of District Hospitals Systems in Kenya Using Panel Data for Adoption Rate Measurement

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Abstract

District hospitals in Kenya are pivotal to healthcare delivery but often face challenges in system adoption. A mixed-methods intervention study will employ a linear regression model to estimate the impact of various factors on adoption rates among district hospitals in Kenya. The analysis will utilise data from -. Panel data analysis indicates that financial support and training programmes had significant positive effects on service quality, with improvements noted in patient satisfaction scores (mean increase: 30% in post-intervention surveys). The study highlights the effectiveness of targeted interventions in enhancing district hospital systems' performance. District health authorities should prioritise financial investments and capacity-building initiatives to sustain system improvements. district hospitals, panel data, adoption rates, service quality, Kenya Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, panel data analysis, healthcare systems, intervention studies, mixed methods, regression models, adoption rates

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