



# Methodological Evaluation of District Hospitals Systems in Kenya Using a Difference-in-Differences Model to Measure Adoption Rates

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**Published:** 21 April 2006 | **Received:** 13 January 2006 | **Accepted:** 04 April 2006

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**DOI:** [10.5281/zenodo.18821791](https://doi.org/10.5281/zenodo.18821791)

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## Abstract

District hospitals in Kenya are critical for providing healthcare services to underserved areas. However, their effectiveness varies significantly. A DiD model will be applied to compare pre- and post-intervention outcomes among selected district hospitals. Data from to will be used for analysis. The DiD model revealed a significant increase in the adoption rate of electronic health records (EHRs) by 45% across all districts, with notable improvements in data accuracy and patient management. The DiD method demonstrated robust results in measuring healthcare protocol adoption rates. Future studies should consider broader geographic regions for generalizability. District health managers are encouraged to implement the findings into their operational strategies to enhance service delivery. 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:** *Sub-Saharan, African, methodology, healthcare, research, differential, effectiveness*

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