



Methodological Evaluation of District Hospitals Systems in Ethiopia: A Randomized Field Trial on Adoption Rates

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Abstract

The evaluation of district hospitals in Ethiopia aims to assess their ability to adopt new medical practices effectively. A randomized controlled trial design was employed, where district hospitals were randomly assigned to either the intervention (new medical practices) or control group (standard care). Data collection included patient records and hospital performance metrics over a six-month period. In the intervention group, 75% of hospitals showed significant improvement in adoption rates for new diagnostic tools compared to baseline levels. However, variability was noted among districts with some areas showing no change or even regression. The randomized trial demonstrated that adopting innovative medical practices can lead to substantial improvements in hospital performance; however, contextual factors such as funding and infrastructure play a critical role. Further research is recommended to explore the long-term impact of these interventions and to identify strategies for enhancing adoption rates across different districts. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Randomized, Field, Intervention, Adoption, Evaluation*

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