



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

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Abstract

District hospitals in Ethiopia face challenges related to system adoption rates, particularly in monitoring and implementing health interventions. A randomized controlled trial was employed to assess the adoption rates of new health intervention protocols across randomly selected district hospitals. Data collection included baseline surveys, post-intervention assessments, and continuous feedback mechanisms. In the evaluated districts, a significant proportion (60%) of healthcare providers reported adopting the new protocols within six months, with notable improvements in patient care outcomes observed. The randomized field trial demonstrated effective methods for evaluating system adoption rates in district hospitals and indicated promising results for improved health service delivery. Further research should explore scalability of these findings to other regions and identify barriers to full implementation. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ethiopia, District Hospitals, Adoption Rates, Randomized Control Trial, Methodology, Health Systems, Evaluation*

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