



Methodological Evaluation and Impact Assessment of District Hospitals Systems in Ethiopia Using Difference-in-Differences Approach

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Abstract

District hospitals in Ethiopia face challenges in implementing effective healthcare systems. A difference-in-differences (DiD) approach was employed to analyse pre- and post-intervention data from Ethiopian district hospitals. The DiD model indicated a significant decrease in patient mortality rates by 15% post-intervention compared to the control group, suggesting improved hospital systems. The difference-in-differences analysis provided robust evidence for the effectiveness of the implemented healthcare reforms. Further research should explore long-term impacts and scalability of these interventions across other regions in Ethiopia. District Hospitals, DiD Model, Healthcare Reform, Risk Reduction 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: Ethiopia, District Hospitals, Health Systems, Methodological Evaluation, Difference-in-Differences, Interventions, Impact Assessment

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