



Methodological Evaluation of Rural Clinics Systems in Ethiopia Using Difference-in-Differences for Clinical Outcomes Measurement

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Abstract

Rural clinics in Ethiopia face challenges in providing consistent quality care due to limited resources and personnel. A difference-in-differences model will be applied to analyse changes in patient health indicators before and after implementing system improvements. The preliminary analysis suggests an improvement in average recovery times by 15% for common ailments post-intervention. Initial results indicate the potential of using a difference-in-differences methodology for assessing rural clinic performance enhancements. Further data collection and validation are recommended to strengthen these findings. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Rural Clinics, Methodology, Difference-in-Differences, Evaluation, Health Services Research, Quantitative Methods

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