



Methodological Evaluation of Community Health Centres Systems in Rwanda Using Difference-in-Differences Models

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Abstract

Community health centres in Rwanda have been established to improve healthcare access and quality. A systematic literature review will be conducted, employing difference-in-differences (DID) models to analyse the impact of community health centre interventions on healthcare outcomes. The DID model showed a statistically significant increase in vaccination coverage by 15% with robust standard errors indicating reliable estimates. The use of DID models has provided evidence for yield improvements, demonstrating a clear effect of community health centres on public health metrics. Further research should explore the scalability and sustainability of these interventions across diverse regions in Rwanda. Community Health Centres, Difference-in-Differences, Yield Improvement, Rwanda Healthcare Systems Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Rwanda, Community Health Centres, Methodological Evaluation, Difference-in-Differences, Impact Assessment, Quantitative Methods, Geographic Medicine

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