



# Methodological Evaluation of Community Health Centre Systems in Rwanda Using Difference-in-Differences Model for Adoption Measurement

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## Abstract

Community health centres in Rwanda have been established to improve access to healthcare services, particularly for underserved populations. However, there is variability in their operational effectiveness and adoption rates. A DiD model was employed to assess the impact of community health centre implementation on service uptake, with a focus on identifying differential effects across different regions. The analysis included data from to and incorporated robust standard errors for statistical inference. The DiD model revealed significant adoption rates in urban areas compared to rural settings, indicating potential regional disparities in service accessibility. While the implementation of community health centres has been successful overall, there are notable variations in their effectiveness across geographical regions. Future studies should consider stratifying data by region to better understand and address these disparities. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Rwanda, Geographic Information Systems, Spatial Analysis, Public Health, Randomized Controlled Trials, Qualitative Research, Quantitative Methods

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