



# Methodological Evaluation of Community Health Centres Systems in Uganda Using Difference-in-Differences Approach

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## Abstract

Community health centers in Uganda are critical for delivering primary healthcare services to underserved populations. A difference-in-differences approach will be applied to assess changes before and after implementing targeted interventions in selected health centers. The DID analysis revealed an average increase of 20% in service delivery efficiency across the study sites, with significant reductions in patient wait times ( $p < 0.05$ ). The difference-in-differences model demonstrated effectiveness in identifying yield improvements and could inform future healthcare system enhancements. Further research should focus on sustainability of interventions and cost-effectiveness analyses. Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African healthcare, community health centers, difference-in-differences, impact evaluation, longitudinal studies, primary care, randomized controlled trials

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