



# Methodological Evaluation of Community Health Centre Systems in Uganda using Difference-in-Differences Approach

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## Abstract

Community health centers in Uganda face challenges in service delivery efficiency. A difference-in-differences model was applied to assess changes in service yield before and after implementing quality improvement measures. The analysis revealed a significant increase ( $p < 0.05$ ) in patient consultations per month, with an estimated effect size of 20%. Quality improvements led to enhanced healthcare services delivery across evaluated centers. Further research and policy recommendations should focus on sustaining and scaling up these interventions. community health centers, Uganda, difference-in-differences, service yield improvement 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:** *Uganda, Community Health Centres, Difference-in-Differences, Methodology, Evaluation, Public Health, Randomized Control Trials*

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