



# Methodological Evaluation of Community Health Centre Systems in Uganda: A Randomized Field Trial to Measure System Reliability

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**Published:** 04 July 2001 | **Received:** 03 April 2001 | **Accepted:** 24 May 2001

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**DOI:** [10.5281/zenodo.18737500](https://doi.org/10.5281/zenodo.18737500)

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## Abstract

Community health centres in Uganda face challenges in maintaining consistent service quality and reliability. A randomized controlled trial will be conducted with 100 randomly selected health centres. Data collection includes patient satisfaction surveys, service delivery logs, and financial records over six months. We expect a statistically significant difference in the proportion of consistently functioning health centres between those receiving additional training (50%) and control groups (30%). The study will provide empirical evidence on system reliability and suggest targeted interventions to enhance service delivery effectiveness. Health authorities should prioritise regular training and quality assurance measures for community health centre staff. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, randomized trials, community health systems, methodological evaluation, service quality assessment, reliability studies, geographic distribution*

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