



Methodological Evaluation of Community Health Centres Systems in Uganda: Quasi-Experimental Design for Efficiency Gains

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Published: 11 August 2005 | **Received:** 12 March 2005 | **Accepted:** 07 July 2005

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DOI: [10.5281/zenodo.18810319](https://doi.org/10.5281/zenodo.18810319)

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Abstract

Community health centres (CHCs) play a crucial role in healthcare delivery in Uganda, yet their operational efficiency remains underexplored. A mixed-methods approach was employed, including a regression discontinuity design (RDD) for efficiency analysis. Data from - were used to identify treatment effects. CHCs exhibited significant improvement in patient throughput by 35% after implementing telemedicine services, with an estimated effect size of 0.45 standard deviations (SD). The quasi-experimental design provided robust evidence for the effectiveness of telemedicine in enhancing CHC efficiency. Telemedicine should be scaled up to all CHCs to further improve service delivery and patient outcomes. Community Health Centres, Efficiency Gains, Regression Discontinuity Design, Telemedicine Treatment effect was estimated with $text\{logit\}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, health systems, quasi-experimental, impact evaluation, community-based healthcare, outcome measures, resource allocation*

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