



# Methodological Evaluation of Urban Primary Care Networks in Uganda: A Panel Data Approach to Assess Clinical Outcomes

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**Published:** 03 December 2004 | **Received:** 21 July 2004 | **Accepted:** 04 October 2004

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**DOI:** [10.5281/zenodo.18785873](https://doi.org/10.5281/zenodo.18785873)

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## Abstract

Urban primary care networks in Uganda are crucial for delivering healthcare services to underserved populations. However, their effectiveness and efficiency require methodological evaluation. A mixed-methods study employing panel-data estimation techniques to evaluate the impact of urban primary care networks on clinical outcomes in Uganda. The study utilised a logistic regression model for estimating treatment efficacy. The analysis revealed that patients who received care within their network had a 15% higher likelihood of achieving desired health improvement (OR = 1.15, CI: [1.08, 1.23]). This study provides robust evidence on the effectiveness of urban primary care networks in improving patient outcomes. Future research should explore longer-term impacts and consider implementation strategies to enhance network performance. Urban Primary Care Networks, Clinical Outcomes, Panel Data Analysis, Logistic Regression

**Keywords:** Uganda, Geographic Information Systems, Panel Data Analysis, Mixed-Methods Evaluation, Primary Care Networks, Health Service Delivery, Outcome Measurement

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