



Methodological Evaluation of Urban Primary Care Networks in Ghana Using Difference-in-Differences Model for Clinical Outcomes Assessment

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Abstract

Urban primary care networks (PCNs) are emerging in Ghana to improve healthcare delivery. However, their effectiveness is not well understood. A difference-in-differences approach was used to estimate the impact of urban PCN implementation on patient outcomes across two urban areas in Ghana. Data from to were analysed, including baseline and follow-up surveys. The model revealed a significant improvement in average treatment adherence rates (75% increase) among patients within the PCNs compared to those outside. Urban PCNs appear effective in improving patient adherence to prescribed treatments. Future studies should explore longitudinal outcomes and cost-effectiveness of urban PCN implementation. primary care networks, difference-in-differences model, clinical outcomes, Ghana healthcare 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: *Urbanization, Primary care, Ghanaian healthcare, Difference-in-Differences, Randomized controlled trials, Outcome assessment, Geographic epidemiology*

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