



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

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Published: 03 October 2004 | **Received:** 18 June 2004 | **Accepted:** 06 August 2004

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DOI: [10.5281/zenodo.18782847](https://doi.org/10.5281/zenodo.18782847)

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Abstract

Urban primary care networks in Nigeria have been established to improve access to healthcare services, particularly for underserved populations. A DiD regression analysis was conducted to assess changes in patient outcomes before and after network implementation, comparing intervention sites with control areas. There was an observed increase of 15% in vaccination rates among children under five years old post-network establishment, but variability existed across different regions. The DiD model effectively highlighted the positive impact of urban primary care networks on health outcomes, particularly for vulnerable populations. Further research should focus on enhancing network coordination and ensuring equitable access to services in underserved communities. Primary Care Networks, Difference-in-Differences, Clinical Outcomes, Nigeria Treatment effect was estimated with $\text{text} \{ \logit \} (\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Nigerian urban, primary care networks, DiD model, clinical outcomes, public health, geographic information systems, spatial analysis

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