



# Methodological Evaluation of Urban Primary Care Networks in Senegal Using Difference-in-Differences for Clinical Outcome Assessment

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## Abstract

Urban primary care networks in Senegal are crucial for delivering healthcare services to underserved populations. However, their effectiveness remains under scrutiny. The study will employ a DiD approach with longitudinal data from urban clinics in Senegal, comparing pre-intervention and post-intervention periods. Data will be analysed using mixed-effects regression models. A preliminary analysis suggests a significant improvement ( $p < 0.05$ ) in patient recovery rates post-network implementation. The DiD model demonstrates the potential of longitudinal data to assess primary care network effectiveness, offering valuable insights for policy and resource allocation. Further research should explore long-term effects and cost-benefit analyses for sustainable interventions. Urban Primary Care Networks, Difference-in-Differences, Clinical Outcomes, Senegal, Mixed-Effects Regression

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:** *Sub-Saharan, primary care, DiD, spatial analysis, intervention studies, health economics, community health systems*

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