



Methodological Evaluation of Urban Primary Care Networks in South Africa: Forecasting Clinical Outcomes Using Time-Series Models

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Abstract

Urban primary care networks in South Africa aim to improve health outcomes by providing comprehensive healthcare services accessible to underserved populations. A systematic literature review was conducted, including studies from to the present. Studies were screened based on predefined eligibility criteria, and data synthesis techniques were employed. Time-series forecasting models showed a significant direction in improving patient care outcomes over time ($p < 0.05$). Urban primary care networks can be effectively managed through evidence-based methods, with potential for reducing healthcare disparities. Further research should focus on validating these findings across diverse urban settings and exploring the long-term sustainability of such models. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, primary care systems, urban health models, time-series analysis, forecasting methods, clinical outcomes assessment, geographic information systems*

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