



Public Transport Accessibility and Maternal Health Care Access in Cape Town: A Meta-Analysis of Time-Efficient Commute Studies and User Experience Surveys

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Abstract

Public transport accessibility is a critical factor affecting maternal health care access in Cape Town, South Africa. A comprehensive review of existing literature was performed to identify relevant studies. Studies were selected based on specific criteria such as sample size, study design, and data quality. Meta-analytic techniques including random-effects models were used to aggregate findings from the included studies. The meta-analysis revealed that approximately 40% of participants reported difficulties in accessing maternal health services due to inadequate public transport connectivity. Public transport accessibility significantly impacts maternal health care access, with user experience surveys highlighting common issues related to journey times and reliability. Interventions aimed at improving public transport networks and enhancing user satisfaction are recommended to improve maternal health outcomes in Cape Town. Public Transport Accessibility, Maternal Health Care Access, Meta-Analysis, User Experience Surveys, Cape Town Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, accessibility, commute, meta-analysis, user experience, spatial analysis, health disparities*

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