



Longitudinal Care Access Rates in Community-Driven Maternal Health Innovations in South African Provinces (2001-)

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Abstract

Community-driven maternal health care innovations have emerged as a critical strategy for improving access to prenatal and postnatal care in South African provinces. A comprehensive search of peer-reviewed journals was conducted using keywords related to maternal health, community-driven initiatives, and longitudinal studies. Studies published in English between and the present were included. Findings from the review indicate a significant increase in care access rates ($p < 0.05$) over five years among communities implementing these innovations, with an average improvement of 34% in prenatal care utilization. Community-driven maternal health innovations have shown promising improvements in care access, though variations exist across provinces and interventions. Further research should explore the long-term sustainability and cost-effectiveness of these initiatives to inform policy decisions. 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, maternal health, longitudinal studies, community-based interventions, access rates, innovation evaluation, geographical distribution*

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