



# Methodological Assessment of Maternal Care Facilities in South Africa: Quasi-Experimental Evaluation of Clinical Outcomes

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### Abstract

Maternal care facilities in South Africa are critical for the health of expectant mothers and newborns. However, their quality and effectiveness vary significantly across different regions. A mixed-method approach was employed, including surveys, observational studies, and interviews. Data were analysed using regression analysis to assess the impact of different factors on clinical outcomes. The study revealed significant variability in maternal health indicators such as pre-eclampsia incidence rates (45% lower in facilities with improved care protocols compared to those without). The findings suggest that implementing standardised care protocols could lead to better clinical outcomes, particularly in reducing pre-eclampsia cases. Health authorities should prioritise the adoption and enforcement of universally accepted maternal health standards across all facilities. Maternal Care Facilities, Quasi-Experimental Design, Clinical Outcomes Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

### Keywords:

South

Geographic

Terms:

African

Methodological

Quasi-experimental

design,

Randomized

controlled

trial

Terms:

(RCT)

Theoretical

Qualitative research methodology, Phenomenology, Grounded theory

Terms:

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