



# Effectiveness of Adolescent Maternal and Reproductive Health Knowledge Surveys in South African Urban Communities: A Six-Month Pre-Post Implementation Study

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## Abstract

Adolescent maternal and reproductive health (AMRH) knowledge is crucial for informed decision-making in urban South African communities. A comprehensive search strategy was employed to identify relevant studies, including systematic review databases and grey literature. Studies were assessed for methodological rigor using predefined criteria. The analysis revealed a statistically significant improvement ( $p < 0.05$ ) in AMRH knowledge scores post-survey compared to pre-test results among surveyed adolescents. The surveys effectively enhanced AMRH knowledge, with educational gains and community participation observed over the six-month period. Further studies should explore long-term effects and implementation strategies for sustained impact. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_p$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African Geography, Adolescent Health, Reproductive Rights, Knowledge Assessment, Methodology, Community-Based Intervention, Pre-Post Evaluation

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