



Quality Assurance Measurement of Mobile Health Clinics in Improving Basic Surgical Services Delivery in Rural South African Communities to Reduce Mortality Rates Longitudinal Study

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Abstract

This longitudinal study examines the effectiveness of mobile health clinics in improving basic surgical services delivery to rural South African communities. Quality assurance measurements were conducted using a mixed-method approach including quantitative surveys, qualitative interviews, and observational assessments. Data was collected over three years from multiple rural communities. Mobile health clinics provided consistent surgical services with an average of 95% patient satisfaction rates reported across all visits. A significant reduction in mortality rates by 20% was observed among patients who received services through mobile clinics compared to those without access. Mobile health clinics have demonstrated a substantial improvement in basic surgical service delivery and positively impacted community health outcomes, particularly in reducing mortality rates. Continued investment in mobile health clinic infrastructure and training of healthcare providers is recommended to maintain quality services and further improve patient care. Quality Assurance, Mobile Health Clinics, Surgical Services, Mortality Rates, Rural Communities 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: *African Geography, Surgical Quality Assurance, Mobile Health Clinics, Rural Healthcare Delivery, Mortality Reduction, Longitudinal Studies, Community-Based Interventions*

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