



Technology-Led Maternal Health Delivery Services in Rural Western Kenya: Six-Month Assessment and Adoption Survey Results

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Abstract

This longitudinal study examines the impact of technology-led maternal health delivery services in rural Western Kenya. A mixed-method approach was employed, incorporating quantitative surveys and qualitative interviews to gather data from a representative sample of rural communities in Western Kenya. The survey revealed that 75% of respondents had adopted the technology-led services by six months, with significant improvements noted in prenatal care adherence and timely health interventions. Technology-led maternal health delivery services showed promising adoption rates and positive impacts on maternal health outcomes in rural communities of Western Kenya. Further studies should explore long-term sustainability and scalability of these services to ensure sustained benefits for women's health. 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, Maternal Health, Technology Adoption, Longitudinal Study, Quantitative Research, Qualitative Analysis, Community Engagement*

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