



Community-led Maternal Health Care Access Improvement Initiatives in Ethiopian Villages: Cost-Effectiveness Assessment,

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Abstract

Community-led maternal health care initiatives have been implemented in Ethiopian villages to improve access to essential services. A longitudinal mixed-methods approach was employed, including surveys, focus group discussions, and medical records review. Data were analysed using hierarchical regression models for statistical inference. Community-led initiatives resulted in a 25% reduction in maternal mortality rates (MRR) compared to control villages over the study period, with an estimated MRR of 10 per 1000 live births. The cost-effectiveness analysis demonstrated that community-led interventions were financially viable and yielded significant health benefits at a lower cost than conventional healthcare models. Further replication in diverse settings is recommended, alongside policy advocacy for increased funding and support for community-based maternal health care initiatives. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Community Mobilization, Maternal Health, Cost-Benefit Analysis, Mixed-Methods, Longitudinal Studies, Evaluation Framework

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