



Economic Evaluation of Community Health Worker Models in Kenyan Rural Preventive Care Delivery: Cost-Effectiveness Analysis

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Abstract

In Kenyan rural areas, preventive care delivery is often under-resourced due to limited access to healthcare facilities and personnel. A cost-effectiveness analysis will be conducted using a Markov model to assess resource utilization and outcomes across different CHW intervention scenarios. The preliminary analysis indicates that CHWs can reduce healthcare costs by 20 per patient while maintaining or improving health outcomes. This study aims to provide evidence for policymakers. $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African Geography, Community Health Workers, Economic Evaluation, Markov Models, Preventive Care, Resource Allocation, Cost-Benefit Analysis

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