



Methodological Evaluation of Community Health Centre Systems in Nigeria: A Randomized Field Trial on Cost-Effectiveness

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Abstract

Community health centers in Nigeria have been identified as critical for improving healthcare access and outcomes, particularly in underserved regions. A randomized field trial was conducted across five Nigerian communities to assess the impact of different service delivery models. Data were collected using a structured questionnaire for both patients and healthcare providers. The analysis revealed that a mixed-model intervention approach combining telemedicine with traditional in-person consultations resulted in a 15% reduction in patient travel costs while maintaining comparable health outcomes. The study found that the cost-effectiveness of community health centers can be significantly improved through innovative service delivery models, particularly when integrating digital technologies. Investment should be directed towards training healthcare providers to effectively use telemedicine tools and expanding access to these services in rural areas. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_{i,j}$, and uncertainty reported using confidence-interval based inference.

Keywords: *Nigerian, randomized, trial, cost-effectiveness, evaluation, geography, health systems, community outreach*

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