



Methodological Evaluation of Community Health Centre Systems in Ghana: A Randomized Field Trial for Risk Reduction

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Abstract

Community health centers in Ghana face challenges in risk reduction strategies. A randomized field trial was conducted across five communities, with baseline data collected on health indicators. Participants were randomly assigned to either the intervention group (receiving enhanced training) or control group (standard care). Data collection included pre- and post-intervention assessments of risk factors such as hypertension and diabetes. The intervention significantly reduced hypertension prevalence by 15% compared to controls, with a 95% confidence interval for the treatment effect being [8%, 23%]. Enhanced training in community health centers showed promise in reducing risk factors like hypertension. Further randomized trials and integration of these findings into national healthcare policies are recommended to ensure scalability and sustainability. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Community Health, Randomization, Impact Assessment, Evaluation Framework, Primary Care*

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