African Occupational Medicine

Methodological Evaluation of Community Health Centre Systems in Uganda: A Meta-Analysis of Randomized Field Trials

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Abstract

Community health centers (CHCs) in Uganda are pivotal for delivering healthcare services, yet their effectiveness varies widely. Randomized controlled trial designs were employed with data collected from various health centers. Statistical models utilised were mixed-effects regression analyses. The analysis revealed an average improvement rate of 15% in patient outcomes for those receiving services at CHCs compared to traditional clinics, indicating a significant efficacy enhancement. CHCs have demonstrated substantial efficiency gains, particularly in terms of improved health outcomes, which could inform policy and resource allocation strategies. Policy makers should prioritise the expansion of CHC systems to further enhance healthcare access and quality in underserved regions. Treatment effect was estimated with $text\{logit\}(\pi) = beta 0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, randomized controlled trials, meta-analysis, health system evaluation, geographic variation, outcome measures, statistical methods*

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