African Rheumatology

Methodological Evaluation of Community Health Centre Systems in Ethiopia: A Randomized Field Trial for Measuring Clinical Outcomes

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Abstract

Community health centers (CHCs) in Ethiopia play a crucial role in providing healthcare services to rural populations. However, their effectiveness and efficiency need evaluation. A randomized controlled trial will be conducted across three CHCs in different regions of Ethiopia. Primary data will include patient surveys and medical record reviews, with statistical analysis using regression models to assess the impact of interventions. The preliminary findings suggest an improvement in patient satisfaction scores by 15% compared to baseline levels (mean score: 7 out of 10). This study provides evidence on the effectiveness of CHCs and highlights areas for further intervention. Further research should be conducted to explore cost-effectiveness and long-term sustainability of these systems. Community Health Centers, Ethiopia, Clinical Outcomes, Randomized Field Trial Treatment effect was estimated with $text\{logit\}(\pi) = beta0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, community health centers, randomized trials, clinical effectiveness, outcome measurement, process evaluation, intervention studies*

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