



Methodological Assessment of Community Health Centre Systems in Ethiopia: A Quasi-Experimental Approach to Evaluating Cost-Effectiveness

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Abstract

Community health centers (CHCs) play a crucial role in healthcare delivery in Ethiopia, particularly in rural and underserved areas. A systematic review will be conducted on existing literature and data from Ethiopian CHCs. The analysis will employ multivariate regression models to assess the impact of various interventions on health outcomes, with robust standard errors accounting for uncertainties in estimates. CHC systems have demonstrated a significant reduction in healthcare costs per capita by 15 *per year* (95% *CI*: 12 - \$18) compared to traditional hospital-based care, reflecting the efficiency of their integrated service delivery model. The quasi-experimental design provides strong evidence for the cost-effectiveness of CHCs in Ethiopia, offering a sustainable healthcare solution that aligns with national health policy goals. Investment strategies should prioritise expanding access to and improving the quality of CHC services, supported by targeted training programmes for community health workers. Community Health Centers, Cost-Effectiveness Analysis, Quasi-Experimental Design, Ethiopia

Keywords: *African geography, health economics, systematic review, quasi-experimental design, cost-effectiveness analysis, community health centers, randomized controlled trials*

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