Reliability Assessment of Community Health Centres in Uganda: A Randomized Field Trial

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Abstract

Community health centers in Uganda face challenges in maintaining reliable service delivery, impacting patient access to essential healthcare. A randomized field trial was conducted among 50 randomly selected community health centers across Uganda. Participants were assessed based on service availability, quality, and patient satisfaction scores. Service availability at participating centers varied by as much as 20% between the lowest and highest performing sites, with a median score of 85 out of 100 for overall system reliability. The study highlights significant variability in service delivery among community health centers, necessitating targeted interventions to improve system reliability. Policy makers should prioritise implementation of standardised protocols and regular performance evaluations to enhance the effectiveness of community health services. Treatment effect was estimated with $text\{logit\}(\pi)=beta\,0+\beta^{\rightarrow}\,p\,X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Community health centers, Africa, Randomized trials, Service delivery, Reliability assessment, Methodology, Evaluation systems*

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