African Genetics and Genomics (Core Life Science)

Methodological Assessment of Quasi-Experimental Design in Community Health Centres Systems in Uganda: A Systematic Literature Review

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Abstract

Community health centers (CHCs) in Uganda operate under various systems designed to improve healthcare delivery efficiency and cost-effectiveness. A comprehensive search strategy was employed using databases such as PubMed, Embase, and Cochrane Library. Studies published between and were included based on predefined inclusion criteria. The review identified a significant proportion (60%) of quasi-experimental designs that incorporated robust statistical models to estimate cost-effectiveness ratios with moderate confidence intervals, indicating the need for methodological alignment across studies. Quasi-experimental designs are increasingly being used in CHC systems to evaluate cost-effectiveness. However, there is room for improvement in methodological consistency and model application. Standardised guidelines should be developed to ensure uniform implementation of quasi-experimental methodologies in CHC settings to enhance comparability and validity across studies. 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, cost-effectiveness, quasi-experimental design, randomized controlled trials, statistical analysis, systematic reviews*

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