



Methodological Evaluation of Quasi-Experimental Designs in Ethiopian District Hospitals Systems

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Abstract

Quasi-experimental designs are increasingly used in healthcare research to evaluate interventions without randomization. In Ethiopia's district hospitals, these designs can help assess yield improvement initiatives. A comprehensive search strategy was employed across multiple databases including PubMed, Scopus, and Google Scholar. Studies were selected based on predefined criteria for inclusion and exclusion, ensuring a robust sample of quasi-experimental designs focusing on yield improvement initiatives in Ethiopian district hospitals. The analysis identified a consistent trend towards the use of pre-post design with control groups to measure yield improvements. However, methodological weaknesses such as varying baseline comparability across studies were noted. This review highlights the need for standardization in quasi-experimental designs within Ethiopian district hospitals to enhance internal and external validity. Future research should advocate for standardised pre-post design with control groups and robust statistical methods to ensure reliable yield improvement measurements. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ethiopia, District Hospitals, Quasi-Experimental Design, Methodology, Evaluation, Healthcare Research, Quantitative Methods*

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