



Methodological Evaluation of District Hospitals Systems in Ethiopia Using Quasi-Experimental Designs for Cost-Effectiveness Analysis,

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Abstract

District hospitals in Ethiopia have been evaluated for their cost-effectiveness through quasi-experimental designs. However, methodological evaluations of these systems are scarce. A comprehensive search strategy was employed across multiple databases, including PubMed and Embase, focusing on articles published between and . Studies were selected based on predefined inclusion criteria related to the use of quasi-experimental designs and cost-effectiveness analyses. The review identified a total of 15 studies that met the inclusion criteria. A notable finding is that the implementation of telemedicine significantly reduced travel costs for patients, with an average reduction of

20 per patient visit (95% CI: -18 to -22). The quasi-experimental designs used in the reviewed studies provided $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Quasi-experimental, Evaluation, Methodology, Cost-effectiveness, Health systems*

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