



Water Sanitation and Child Health Metrics in Rural Ethiopian Villages: An Impact Analysis

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Abstract

Water sanitation interventions have been implemented to improve child health in rural Ethiopian villages. However, the effectiveness of these interventions is not well understood. A comprehensive search was conducted using databases such as PubMed, Scopus, and Google Scholar. Studies were selected based on predefined inclusion criteria related to water sanitation projects targeting child health in Ethiopia. The analysis revealed a significant positive correlation between improved water sanitation and reductions in diarrheal disease incidence by approximately 30%, with varying degrees of success across different regions. Water sanitation interventions have shown promise in improving child health, though variability exists depending on the specific implementation strategies employed. Further studies should be conducted to evaluate long-term effects and explore cost-effective scaling options for water sanitation projects in rural Ethiopian villages. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Rural Health, Water Quality, Sanitation Interventions, Child Mortality Reduction, Health Metrics Evaluation, Community Participation Studies*

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