



# Implementation of Community-Led Sanitation and Hygiene Interventions in Addis Ababa, Ethiopia: Success and Coverage Metrics on Child Diarrhoeal Disease Reduction,

Mulugeta Yewetom<sup>1</sup>

<sup>1</sup> Department of Surgery, Addis Ababa University

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**Correspondence:** [myewetom@hotmail.com](mailto:myewetom@hotmail.com)

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## Author notes

*Mulugeta Yewetom is affiliated with Department of Surgery, Addis Ababa University and focuses on Medicine research in Africa.*

## Abstract

This study examines the implementation of community-led sanitation and hygiene interventions in Addis Ababa, Ethiopia to reduce child diarrhoeal disease rates. Community surveys, hygiene education sessions, and sanitation facilities were implemented across selected areas in Addis Ababa. Data collection involved baseline assessments followed by periodic evaluations to measure changes in health outcomes. A significant reduction ( $p < 0.05$ ) of diarrhoeal incidence was observed among children who received the intervention compared to controls, indicating a strong relationship between improved hygiene practices and reduced disease burden. Community-led sanitation and hygiene interventions effectively lowered child diarrhoeal diseases in Addis Ababa, with notable improvements in handwashing frequency and toilet access. Further expansion of these community-based programmes is recommended to achieve broader coverage and sustained impact on public health outcomes. Addis Ababa, Community-led sanitation, Hygiene interventions, Child diarrhoeal diseases, Success metrics, Coverage metrics Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African, Ethiopia, Community-led, Hygiene, Sanitation, Interventions, Metrics

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