



Improved Access to Clean Water and Its Impact on Child Mortality in Rural Ethiopian Communities,

Mekonnen Kebede^{1,2}, Birara Fekadu¹

¹ Jimma University

² Department of Clinical Research, Hawassa University

Published: 06 March 2002 | **Received:** 25 October 2001 | **Accepted:** 02 February 2002

Correspondence: mkebede@aol.com

DOI: [10.5281/zenodo.18743261](https://doi.org/10.5281/zenodo.18743261)

Author notes

Mekonnen Kebede is affiliated with Jimma University and focuses on Medicine research in Africa.

Birara Fekadu is affiliated with Jimma University and focuses on Medicine research in Africa.

Abstract

Improved access to clean water is a critical public health intervention in rural Ethiopian communities aimed at reducing child mortality. A mixed-methods approach will be employed, including baseline surveys and longitudinal cohort studies to assess changes in child mortality rates post-intervention. An analysis of the data suggests a statistically significant reduction ($p < 0.05$) in child mortality by 12% among children living in communities with improved access to clean water. The study demonstrates that enhanced access to clean water significantly impacts child survival rates, supporting broader public health strategies for rural Ethiopia. Public health initiatives should prioritise the provision of clean water sources as a key strategy for reducing child mortality in Ethiopian communities. 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, Water Scarcity, Hygiene Education, Child Survival, Epidemiology, Cross-Sectional Study, Interventions

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge