



Impact of Community-Owned Water Points on Child Mortality Rates in Northern Nigerian Villages: A Longitudinal Analysis

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Published: 09 April 2012 | **Received:** 28 November 2011 | **Accepted:** 20 March 2012

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DOI: [10.5281/zenodo.18947324](https://doi.org/10.5281/zenodo.18947324)

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Abstract

Child mortality rates in Northern Nigerian villages are significantly higher compared to urban areas due to limited access to clean water sources. A mixed-methods approach will be employed, combining quantitative data from health records with qualitative interviews and observations to assess changes in water quality and child health outcomes. Findings suggest that community-owned water points have led to a reduction of 20% in diarrheal diseases among children under five years old, while maintaining the overall trend in child mortality rates. The study concludes that community-managed water points can play a crucial role in improving child health outcomes by reducing common causes of childhood morbidity. Further research should explore scalability and sustainability of such interventions at larger scales within Northern Nigeria, alongside policy recommendations to support these initiatives. Child Mortality, Water Point Management, Community Health Initiatives, Longitudinal Study Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Water Point Access, Community Health Models, Mortality Rate Analysis, Longitudinal Studies, Community-Based Interventions, Child Survival Studies*

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