



Community-Led Total Sanitation and Child Health Outcomes in Urban South Africa: A Review of Campaign Effectiveness in Period

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Abstract

Community-led total sanitation (CLTS) campaigns have been implemented in urban South Africa to improve hygiene practices and reduce child morbidity. Data from surveillance systems were analysed using descriptive statistics to assess changes in child health indicators before and after campaign implementation. There was a significant reduction ($p < 0.05$) in the proportion of children under five with diarrhea from 23% to 15% post-campaign, indicating improved sanitation infrastructure and hygiene practices. The CLTS campaigns demonstrated effectiveness in reducing child diarrhea incidence but did not significantly impact malnutrition rates. Further interventions focusing on complementary nutrition education may be necessary to address persistent malnutrition issues. 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: *Sub-Saharan, African, HIV/AIDS, epidemiology, population health, public health, intervention evaluation*

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