



# Enhancing Immunization Coverage through Community-Driven Interventions in Rural Ethiopian Communities: A Review of Strategies and Outcomes

Misgana Abiy<sup>1</sup>, Negusse Tadesse<sup>1,2</sup>

<sup>1</sup> Addis Ababa University

<sup>2</sup> Mekelle University

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**Correspondence:** [mabiy@outlook.com](mailto:mabiy@outlook.com)

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## Author notes

*Misgana Abiy is affiliated with Addis Ababa University and focuses on Medicine research in Africa.*

*Negusse Tadesse is affiliated with Mekelle University and focuses on Medicine research in Africa.*

## Abstract

Child immunization coverage in rural Ethiopian communities remains suboptimal, highlighting a critical need for effective strategies to enhance vaccination uptake. A mixed-methods approach was employed, including surveys, focus group discussions, and case studies in ten randomly selected villages across three regions of Ethiopia. Data were analysed using descriptive statistics and thematic analysis. A significant improvement ( $p < 0.05$ ) in immunization coverage rates from baseline to post-intervention was observed in all intervention areas, with a mean increase of 18% in the number of children fully vaccinated. Community-driven interventions significantly improved child immunization coverage in rural Ethiopian communities, demonstrating their effectiveness and potential as scalable public health strategies. Further replication of these interventions should include enhanced community engagement, tailored educational materials, and sustained monitoring to sustain gains over time. 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, Immunization Coverage, Community Health Interventions, Vaccine Acceptance, Public Health Strategies, Community Participation, Mixed-Methods Design

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