



Six-Week Gastrointestinal Parasite Treatment Programme Evaluation in Rural Mozambique Communities, 2011

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Abstract

Gastrointestinal parasites remain a significant health issue in rural Mozambique communities, affecting both children and adults. A randomized controlled trial was conducted with 200 participants across three villages. Participants were randomly assigned to either the intervention group (receiving treatment) or control group (no treatment). Data collection included pre- and post-treatment stool samples for parasitic analysis. The programme resulted in a significant reduction of gastrointestinal parasites from 85% prevalence to 30% at follow-up, with a mean decrease in parasite count by 42%, indicating the effectiveness of the treatment regimen. The intervention proved effective in reducing gastrointestinal parasite infections, supporting its implementation for broader health improvement initiatives. Further studies should explore long-term effects and cost-effectiveness of such programmes to inform policy decisions. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Parasitology, Intervention, Randomized Controlled Trial, Rural Health, Community-Based, Etiology*

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