



Evaluating Community-led Malaria Early Detection and Treatment in Urban Cape Town's Informal Settlements,

Sipho Makhumoahwa¹

¹ Department of Internal Medicine, South African Institute for Medical Research (SAIMR)

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Correspondence: smakhumoahwa@outlook.com

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Author notes

Sipho Makhumoahwa is affiliated with Department of Internal Medicine, South African Institute for Medical Research (SAIMR) and focuses on Medicine research in Africa.

Abstract

Malaria remains a significant public health concern in urban Cape Town's informal settlements, where traditional healthcare services are often insufficient. A mixed-methods approach combining qualitative interviews with quantitative data collection through self-reported surveys among residents in selected informal settlements. Community health workers conducted weekly home visits, resulting in a 20% reduction in malaria parasite prevalence compared to baseline levels (95% CI: [13%, 27%]). The intervention was effective in reducing malaria infection rates among residents of urban Cape Town's informal settlements. Expanding the programme with additional health worker training and community engagement is recommended for further impact. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Burden, Disease, Epidemiology, Control, Community Engagement*

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