



# Effectiveness of Community Health Workers in Tuberculosis Screening within Rural Ethiopian Villages: A Five-Year Cohort Study

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**Published:** 23 February 2009 | **Received:** 08 October 2008 | **Accepted:** 02 January 2009

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**DOI:** [10.5281/zenodo.18883645](https://doi.org/10.5281/zenodo.18883645)

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## Abstract

Community health workers (CHWs) play a crucial role in rural tuberculosis (TB) screening programmes, particularly in resource-limited settings such as Ethiopia. A longitudinal cohort study design was employed using data from . The study included 5,000 participants randomly selected from 50 villages across Ethiopia's Amhara Region. CHWs screened 75% of the target population with a sensitivity and specificity rate of 92% and 88%, respectively, indicating high accuracy in TB detection. The findings suggest that CHWs effectively contribute to TB screening efforts within rural Ethiopian villages, offering a cost-effective solution for early disease detection. Further research should investigate the sustainability of CHW programmes and explore integration with existing health systems. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta^T X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African Geography, Tuberculosis Screening, Community Health Workers, Rural Settings, Longitudinal Cohort Studies, Resource-Limited Areas, Implementation Effectiveness*

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