



# Tuberculosis Control in South African Mining Communities: Adherence and Community Engagement Rates

Nkosana Mqabuko<sup>1</sup>

<sup>1</sup> Department of Public Health, University of Venda

**Published:** 21 February 2011 | **Received:** 28 December 2010 | **Accepted:** 27 January 2011

**Correspondence:** [nmqabuko@gmail.com](mailto:nmqabuko@gmail.com)

**DOI:** [10.5281/zenodo.18930250](https://doi.org/10.5281/zenodo.18930250)

## Author notes

*Nkosana Mqabuko is affiliated with Department of Public Health, University of Venda and focuses on Medicine research in Africa.*

## Abstract

Tuberculosis (TB) remains a significant public health issue in South Africa, particularly prevalent among mining communities where living and working conditions can contribute to higher infection rates. A mixed-methods approach including both quantitative surveys and qualitative interviews was employed to assess adherence levels and community participation in prevention programmes. Survey data indicated an average adherence rate of 78% among TB patients, with significant variation across different work sectors. Qualitative analysis revealed that trust in the healthcare system was a key factor influencing engagement rates. Community engagement strategies focusing on building trust and improving access to services were found to be effective in enhancing treatment adherence. Implementing targeted community health education programmes alongside robust surveillance systems is recommended for sustained TB control efforts. Tuberculosis, Mining Communities, Treatment Adherence, Community Engagement Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Tuberculosis, Mining Communities, South Africa, Geographic Epidemiology, Community Health Interventions, Treatment Adherence, Public Health Strategies*

## ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

**Email:** [info@parj.africa](mailto:info@parj.africa)

Request your copy of the full paper today!

## SUBMIT YOUR RESEARCH

**Are you a researcher in Africa? We welcome your submissions!**

Join our community of African scholars and share your groundbreaking work.

**Submit at:** [app.parj.africa](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge