



Mental Health Interventions for South African Military Personnel in Townships: An Intervention Study

Qhawu Qalawa^{1,2}, Sibusiso Mkhwanazi³, Nkosazana Nkabinde⁴, Hlengiwe Hlatshwale^{2,3}

¹ Department of Epidemiology, Graduate School of Business, UCT

² Mintek

³ National Institute for Communicable Diseases (NICD)

⁴ Department of Epidemiology, University of Zululand

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Correspondence: qqalawa@gmail.com

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Author notes

Qhawu Qalawa is affiliated with Department of Epidemiology, Graduate School of Business, UCT and focuses on Medicine research in Africa.

Sibusiso Mkhwanazi is affiliated with National Institute for Communicable Diseases (NICD) and focuses on Medicine research in Africa.

Nkosazana Nkabinde is affiliated with Department of Epidemiology, University of Zululand and focuses on Medicine research in Africa.

Hlengiwe Hlatshwale is affiliated with National Institute for Communicable Diseases (NICD) and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Mental Health Support Services for Military Personnel in South African Townships in South Africa. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Mental Health Support Services for Military Personnel in South African Townships, South Africa, Africa, Medicine, intervention study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Context, Military Psychology, Mental Health Interventions, Community-Based Programmes, Cognitive Behavioural Therapy, Public Health Initiatives, Psychosocial Support*

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