



# Telemedicine Consultations and Chronic Disease Management in Southern Africa: A Remote Monitoring Study in Mozambique

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## Abstract

This study addresses a current research gap in Medicine concerning Impact of Telemedicine Consultations on Chronic Disease Management Outcomes among Long-Distance Patients in Southern Africa: Remote Patient Monitoring Feasibility Study in Mozambique. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. 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. Impact of Telemedicine Consultations on Chronic Disease Management Outcomes among Long-Distance Patients in Southern Africa: Remote Patient Monitoring Feasibility Study, Mozambique, Africa, Medicine, case study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, Africa, Cross-Cultural, Misdiagnosis, Rural, Virtual*

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