Telemedicine Adoption and Health Outcomes Among Remote Kenyan Diabetic Patients Over One Year

Timoteo Koech[1]**, Mwihaki Muthama**[1,2]**, Omar Ngethe**[2,3]

[1] Technical University of Kenya

[2] Egerton University

[3] African Population and Health Research Center (APHRC)

Correspondence: tkoech@outlook.com

Author notes

Timoteo Koech is affiliated with Technical University of Kenya and focuses on Medicine research in Africa.
Mwihaki Muthama is affiliated with Egerton University and focuses on Medicine research in Africa.
Omar Ngethe is affiliated with African Population and Health Research Center (APHRC) and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning "Telemedicine Access and Health Outcomes for Remote Kenyan Diabetic Patients: Adoption Rates Over a Year" in Kenya. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. 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. "Telemedicine Access and Health Outcomes for Remote Kenyan Diabetic Patients: Adoption Rates Over a Year", Kenya, Africa, Medicine, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $text\{logit\}(\pi) = beta 0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

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

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

Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge