



Digital Health Records in Chronic Disease Management Among Rural Ethiopian Women Farmers: A Two-Year Study

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Mekdes Tadesse is affiliated with Debre Markos University and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning 8. Use of Digital Health Records to Improve Chronic Disease Management Among Rural Ethiopian Women Farmers with Limited Healthcare Resources: Care Outcomes Over Two Years in Ethiopia. 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. 8. Use of Digital Health Records to Improve Chronic Disease Management Among Rural Ethiopian Women Farmers with Limited Healthcare Resources: Care Outcomes Over Two Years, Ethiopia, Africa, Medicine, case study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ethiopia, Chronic Illness, Telemedicine, Data Analytics, Mobile Health, Public Health Surveillance, Geographic Information Systems*

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