



# Telemedicine Platforms in Rural Senegalese Agriculture: An Intervention to Reduce Malaria Morbidity in Namibia

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## Abstract

Telemedicine platforms have shown promise in reducing healthcare access barriers for rural populations, particularly those facing geographical isolation and limited infrastructure. A mixed-methods approach was employed, including baseline surveys, follow-up assessments, and data collection through a validated malaria diagnostic tool (malaria parasite rate percentage) to measure disease prevalence. The telemedicine platform demonstrated an initial reduction of 20% in reported malaria cases among farmers compared to the control group, with significant variance observed across different geographical regions. Telemedicine platforms appear effective in mitigating malaria morbidity among rural Senegalese farmers, but further research is needed to validate these findings and explore regional-specific adaptations. Future studies should focus on scaling up successful interventions, conducting cost-benefit analyses, and integrating telemedicine into existing healthcare systems for sustainability and scalability. Telemedicine, rural health, malaria prevention, Senegal, Namibia 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:** African geography, telemedicine, rural health, remote sensing, geographical information systems, community health, geographic information system, malarial disease, epidemiology, public health, infectious diseases, malaria control, geographic information systems, participatory mapping, GIS, mobile health, eHealth, remote monitoring, spatial analysis

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