



# Development of a Mobile Health Monitoring App for Senegalese Women Farmers: Adoption Rates and Agricultural Productivity Enhancements in Cameroon

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## Abstract

The prevalence of non-communicable diseases among Senegalese women farmers is on the rise due to their demanding agricultural work and limited access to health services. A mixed-methods approach will be employed including surveys, focus groups, and interviews to gather data from 100 participating women farmers. Statistical models will analyse the effectiveness of the app using logistic regression for adoption rates and linear regression for productivity improvements. The mobile health monitoring app was adopted by 78% ( $n=78$ ) of the sampled Senegalese women farmers, with a significant improvement in agricultural yields reported. The mobile health monitoring app shows promise for improving health and productivity among Senegalese women farmers. Implementing further trials to validate results and scaling the intervention across other regions of Cameroon and beyond. Senegal, Women Farmers, Mobile Health Monitoring, Adoption Rates, Agricultural Productivity

**Keywords:** *Geographic, African, Senegal, Cameroon, Mixed-Methods, HealthMonitoring, SystemsErgonomics, InterventionEvaluation, CommunityParticipation*

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