



Mobile Healthcare Platforms and Blood Pressure Control Among Rural Senegalese Elderly: An Intervention Study

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Abstract

Rural areas in Senegal often face challenges in accessing healthcare services, particularly for chronic conditions such as hypertension. A mixed-methods approach combining baseline surveys with pre- and post-intervention assessments using a matched-pair design. Among participants using the mobile platform, systolic blood pressure decreased by an average of 5 mmHg compared to those not using it (95% CI: -10 to -0.2 mmHg). Mobile healthcare platforms show promise in improving blood pressure control among rural Senegalese elderly. Further research should explore scalability and sustainability of these interventions. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, MobileHealth, Telemedicine, Hypertension, Elderly, ParticipatoryResearch, CommunityEngagement*

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