



# Mobile Health Apps and Nanotechnology: An Assessment of Adoption Among Senegalese Urban Households in Uganda

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## Abstract

Senegalese urban households in Uganda are increasingly adopting mobile health (mHealth) apps for symptom monitoring and disease management. A mixed-methods approach was employed, including a survey and focus group discussions to gather data from participants. Quantitative analysis used logistic regression models to predict app usage based on demographic factors. Among the surveyed households ( $n=200$ ), approximately 45% reported using mHealth apps with nanotechnology features for disease monitoring, such technologies. The study provides insights into how Senegalese urban households perceive and utilise mHealth apps enhanced by nanotechnology in healthcare settings. Public health initiatives should consider integrating mHealth apps with nanotechnology to meet the specific needs of rural populations. Senegal, Uganda, Mobile Health Apps, Nanotechnology, Adoption, Senegalese Urban Households

**Keywords:** *Sub-Saharan, mHealth, nanotechnology, qualitative, urbanization, intervention, e-health, epidemiology*

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