



Solar-Powered Clinics and Access to Preventative Healthcare in Urban Slums of Northern Nigeria

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Abstract

Solar-powered health clinics have gained attention as a potential solution to improve access to preventative healthcare in underserved urban areas of developing countries. A mixed-methods survey approach was employed, combining quantitative data from a structured questionnaire with qualitative insights through interviews. Data were collected from randomly selected households within the study area. The findings indicate that solar-powered clinics significantly improved access to preventative healthcare services among urban slum residents, particularly in terms of increased utilization for routine check-ups and vaccinations. Solar-powered community health clinics have demonstrated a positive impact on enhancing access to preventative healthcare services in northern Nigerian urban slums. Further implementation of solar-powered health clinics should be considered alongside broader strategies to improve infrastructure and public awareness about the importance of regular medical check-ups.

Keywords: *Sub-Saharan, slum, qualitative, quantitative, accessibility, intervention, sustainability*

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