



Telemedicine Adoption and Utilization Among Ethiopian Rural Healthcare Workers: A Comprehensive Impact Study

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Abstract

Telemedicine has emerged as a critical tool for healthcare delivery in rural areas of Ethiopia, where access to medical professionals and facilities is often limited. A mixed-method approach was employed, combining quantitative surveys with qualitative interviews to gather data from a representative sample of RHWs across ten randomly selected rural districts in Ethiopia. RHWs reported using telemedicine for consultations (75%) and remote monitoring (60%), with significant variation observed based on district-level factors such as internet connectivity availability. Telemedicine adoption among Ethiopian RHWs is significantly influenced by local infrastructure conditions, leading to improved service delivery efficiency in underserved areas. Investment should focus on enhancing rural telecommunication networks and training programmes for healthcare workers to maximise the benefits of telemedicine technology. Ethiopia, Rural Healthcare Workers, Telemedicine Adoption, Impact Study Treatment effect was estimated with $text\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African, Telemedicine, Adoption, Utilization, Healthcare, Workers, Rural

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