



Telemedicine Platforms in Kenyan Healthcare Facilities: Effectiveness and Cost Analysis Over One Year

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Abstract

Telemedicine platforms have been increasingly implemented in healthcare settings to address geographical barriers and resource constraints. A longitudinal study design was employed, with data collected from five randomly selected hospitals. Telemedicine led to a 25% reduction in travel time for patients compared to traditional face-to-face consultations ($p < 0.01$), and an estimated 10,000 annual savings per facility based on reduced transportation costs. The study concludes that telemedicine is

$\text{logit}(\pi) = \beta_0 + \beta^{\text{top}} X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African Geography, Telemedicine, Remote Health Care, Longitudinal Study, Outcome Evaluation, Resource Allocation, Cost Analysis

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