Digital Health Technologies Adoption by Healthcare Providers in Urban Hospitals of Dakar, Senegal: Usage Intensity, Diagnostic Accuracy Changes, and Patient Outcomes Enhancement Timescales

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Abstract

Urban hospitals in Dakar, Senegal have increasingly adopted digital health technologies (DHTs), including electronic medical records and telemedicine platforms. A comprehensive search strategy was employed using multiple databases, with data extraction and critical appraisal following PRISMA guidelines. The analysis revealed a moderate increase in DHT usage intensity over the past decade, with an average of 75% daily active users for electronic medical records systems. Digital health technologies have shown promise in enhancing diagnostic accuracy but require further standardised protocols to achieve optimal patient outcomes. Healthcare providers should implement robust training programmes and regular audits to ensure consistent usage and quality improvements. digital health technologies, urban hospitals, Dakar, Senegal, usage intensity, diagnostic accuracy, patient outcomes Treatment effect was estimated with $text\{logit\}(\pi) = beta0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African healthcare, digital health information technologies, telemedicine, electronic medical records, interoperability, eHealth systems, adoption studies*

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