Digital Prescription Systems in Ghanaian Public Health Facilities: An Analysis of Implementation and Longevity

Chinedu Okerekpue[1]

[1] Nigerian Institute of Social and Economic Research (NISER)

Author notes

Chinedu Okerekpue is affiliated with Nigerian Institute of Social and Economic Research (NISER) and focuses on Medicine research in Africa.

Abstract

Digital prescription systems have been introduced in public health facilities across Ghana to streamline medication dispensing processes. A mixed-methods approach was employed, including quantitative data analysis from facility records and qualitative interviews with healthcare professionals. Findings indicate that while initial uptake was high (85% of facilities adopted the systems), long-term sustainability remained challenging (60% reported continued use after two years). The digital prescription systems showed promise in initial deployment but struggled to maintain consistent usage over time. Investment should be prioritised on system maintenance and training programmes to ensure sustained functionality. Treatment effect was estimated with $text\{logit\}(\pi) = beta\,0 + \beta^{\rightarrow} p\,X_i$, and uncertainty reported using confidence-interval based inference.

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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