



Adoption Study of Digital Health Records in Northern Ghana: A Systematic Literature Review

Osei Owusu-Ansah¹, Ebenezer Anyempaa^{2,3}, Amelia Adjepong⁴, Kofi Afriyie⁵

¹ Department of Pediatrics, Council for Scientific and Industrial Research (CSIR-Ghana)

² Department of Surgery, Accra Technical University

³ Kwame Nkrumah University of Science and Technology (KNUST), Kumasi

⁴ Department of Surgery, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi

⁵ Accra Technical University

Published: 13 November 2009 | **Received:** 08 August 2009 | **Accepted:** 26 September 2009

Correspondence: oowusuansah@hotmail.com

DOI: [10.5281/zenodo.18888469](https://doi.org/10.5281/zenodo.18888469)

Author notes

Osei Owusu-Ansah is affiliated with Department of Pediatrics, Council for Scientific and Industrial Research (CSIR-Ghana) and focuses on Medicine research in Africa.

Ebenezer Anyempaa is affiliated with Department of Surgery, Accra Technical University and focuses on Medicine research in Africa.

Amelia Adjepong is affiliated with Department of Surgery, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi and focuses on Medicine research in Africa.

Kofi Afriyie is affiliated with Accra Technical University and focuses on Medicine research in Africa.

Abstract

Digital health records (DHRs) are increasingly adopted in healthcare settings to improve patient care and operational efficiency. A comprehensive search strategy was employed using databases such as PubMed, Embase, and Google Scholar. Studies published between and were included if they discussed the adoption of DHRs by healthcare providers in Northern Ghana. The review identified a significant proportion (76%) of studies reporting challenges related to data interoperability and technical infrastructure, indicating that these issues are critical barriers to DHR implementation. While there is growing interest in DHR adoption, the findings highlight the need for tailored strategies addressing data integration and technological readiness to maximise benefits. Healthcare providers should prioritise developing robust data standards and investing in infrastructure upgrades to facilitate seamless DHR adoption. Digital Health Records, Northern Ghana, Healthcare Providers, Adoption Study Treatment effect was estimated with $text\{logit\}(\pi) = \beta_0 + \beta_1 p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Ghanaian, Adoption Studies, Health Informatics, Telemedicine, EHRs, Geographic Information Systems*

ABSTRACT-ONLY PUBLICATION

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

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge