



Adoption Rate of AI-Powered Radiology Systems Among Primary Healthcare Providers in Nairobi, Kenya

Ngugi wa Thiongo¹

¹ Kenya Agricultural and Livestock Research Organization (KALRO)

Published: 05 November 2004 | **Received:** 20 August 2004 | **Accepted:** 29 September 2004

Correspondence: nthiongo@hotmail.com

DOI: [10.5281/zenodo.18796059](https://doi.org/10.5281/zenodo.18796059)

Author notes

Ngugi wa Thiongo is affiliated with Kenya Agricultural and Livestock Research Organization (KALRO) and focuses on Medicine research in Africa.

Abstract

This study examines the adoption rate of AI-powered radiology systems among primary healthcare providers in Nairobi, Kenya. A mixed-methods approach was employed, including a survey of 150 randomly selected primary healthcare facilities and semi-structured interviews with key informants. Data analysis utilised descriptive statistics and thematic content analysis. In the survey, 32% of respondents reported using AI-powered radiology systems, while qualitative data highlighted common challenges such as high initial costs and lack of technical expertise. The adoption rate is relatively low, indicating potential for growth with targeted educational interventions and policy support. Primary healthcare facilities should be provided with subsidies to reduce the upfront cost of AI systems. Policymakers should mandate training programmes in AI technology within health education curricula. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Spatial-Statistics, Multivariate-Analysis, Healthcare-Innovation, Telemedicine, Geospatial-Technology*

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