

**Assessment of the Application of Information Technology on Health Information
Management Practice in University College Hospital, Ibadan**

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**Being a MPH Thesis Submitted to the Department of Public Health, Faculty of Basic
Medical and Health Sciences, Lead City University, Ibadan, Oyo State,
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in Public Health Informatics**

Certification

This is to certify that Adedokun Sofiyat with matriculation number LCU/PG/001838 carried out this research work titled “Assessment on the Application of Information Technology on Health Information Management Practice in University College Hospital, Ibadan” in the Department of Public Health, Faculty of Basic Medical and Health Sciences, Lead City University, Ibadan, Oyo State, for the award of Master degree (MPH) Public Health in Health Informatics and that this has not been previously submitted.

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Dedication

This work is dedicated to Almighty Allah for His infinite mercies.

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Acknowledgement

All praises belong to Almighty Allah for His mercies over mankind and who helped me through my educational career.

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“Even though the above-mentioned institutions and persons have assisted in the process of this research work, I alone stand responsible for the errors, if any, found in the work”

Abstract

Application of IT in HIM practice is a tool to promoting healthcare practice. There is evidence of ineffective HIM system as a result of cumbersome paper-based and disjointed health data management causing delay in taking prompt and effective decision. The study will serve as a template to the management and relevant bodies for implementing an effective application of IT. Overall purpose was to assess the application of IT on health information practice in UCH, Ibadan. A cross-sectional study was adopted with a multistage sampling technique to select respondents. An adapted questionnaire from previous study was used and pretested with 422 healthcare workers of UCH. Descriptive statistics of the quantitative variables were analyzed using frequency, percentage count, mean and standard deviation as represented in tables and charts. Chi-square was used to test significant associations between the dependent and independent variables. P-values <0.05 was considered statistically significant. Data collected were entered and cleaned using SPSS Version 25.0. The study showed that 89.3% of respondents had positive attitude towards IT application. All respondents agreed that IT application in HIM is beneficial. About 92.0% of respondents had good application of IT and 96.3% agreed that the facility is associated with challenges in terms of applications of IT. Chi square analysis showed educational attainment X^2 Value=6.145, P-value=0.046 significantly correlate with the attitude towards IT application. Lack of access to IT tools (P-value=0.023), Failure of IT equipment or tools (P-value=0.013), Lack of management support (P-value=0.007) were significantly associated with the challenges and IT application. Intensive research on use of IT in HIM practice should be conducted within a wider environment in Nigeria to be able to documents such information for generalization. IT as a necessary tool that proffers solutions to problems emanated from paper-based health records which aids exchange of information between healthcare providers and facility.

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List of Acronyms

Abbreviation	Meaning
AHIMA	America Health Information Management Association
AI	Artificial intelligence
AMR	Automated Medical Record
ATD	Admissions, Transfers, Discharges, and Deaths
CT	Computerized Tomography
CMRS	Computerized Medical Record System
CPOE	Computerized Physician Order Entry
CPR	Computer Based Patient Record
CSO	Classification of Surgical Operation
DBMS	Database Management System
DR	Digital radiology
EHRs	Electronic Health Records
EMRs	Electronic Medical Records
EPR	Electronic Patient Record
GIS	Geographic Information Systems
HIM	Health Information Management
HIT	Health Information Technology
ICD	International Classification of Disease
ICT	Information Communication Technology
IT	Information Technology
PHRs	Personal Health Records
WHO	World Health Organization

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