

Information and Communication Technology, Work Environment and Use of Electronic Health Records by Health Professionals in Private Hospitals Ibadan, Oyo State, Nigeria

**Helen Folashade ADEOYE
LCU/PG/001988**

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Certification

This is to certify that Helen Folashade ADEOYE with matriculation number LCU/PG/001988 carried out this research work tittle “**Information and Communication Technology Skills, Work Environment and Use of Electronic Health Records by Health Professionals in Private Hospitals Ibadan, Oyo State, Nigeria**” in the Department of Information Management, Faculty of Communication and Information Sciences, Lead City university, Ibadan, Oyo State, for the award of Master of Science Degree (MSc) in Health Information Management and this has not been previously submitted.

**Dr. Sophia Vivian Adeyeye
(Supervisor)**

Date

**Dr Sophia Vivian Adeyeye
(Head of Department)**

Date

Dedication

This research work is dedicated to the Almighty God who alone is worthy of my praise

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Abstract

The study examined the influence of Information and Communication skills, work environment on the use of electronic records by health professionals in private hospitals, Ibadan, Oyo State. The research extracted relevant data from recent related work. The study design was descriptive, and structured questionnaire was the instrument used for data collection, with the study population consisting of 120 health professionals. The data collected was analyzed using inferential statistics. The results showed that the respondents were frequent ICT users (Mean = 3.74) which they used for keeping patients' health records (Mean = 3.69) and managing healthcare processes (Mean = 3.61). The respondents also had a high perception of their skills in the use of Information and Communication Technology (Mean = 3.48) and their work environment was high (Mean = 3.60). Furthermore, the test of hypotheses revealed that ICT skills ($R = 0.522, p < 0.05$), and work environment ($R = 0.313, p < 0.05$) have a significant positive relationship with the use of electronic health records by health professionals in private hospitals, Ibadan, Oyo state. Both ICT skills and work environment had combined influence (Adj. $R^2 = 0.421, F(2,84) = 32.214, p = 0.000$) on the use of ICT. The study concluded that increased ICT skills of health professionals are good indication of future progress. Therefore it was recommended that private hospitals in Ibadan, Oyo state should adopt purpose-built software for electronic health records management.

Keywords: Electronic Health Record, Health Information Management, Health Professionals, Information and Communication Technology Skills, Records Management

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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 error (s) if any, found in this work”

Table of Contents

Content	Page
Title Page	i
Certification	ii
Dedication	iii
Acknowledgment	iv
Abstract	v
Table of Contents	vi
List of Tables	ix
List of Figures	x
List of Acronyms	xi
Chapter One - Introduction	
1.1 Background to the Study	1
1.2 Statement of the Problem	7
1.3 Aim and Objectives of the Study	8
1.4 Research Questions	9
1.5 Hypotheses	9
1.6 Significance of the Study	10
1.7 Scope of the Study	11
1.8 Limitation of the Study	11
1.9 Operational Definition of Terms	12
Endnote	14
Chapter Two –Literature Review	16

2.1 Conceptual Review	17
2.1.1 Overview of Use of Electronic Health Records	17
2.1.2 Overview of Information and Communication Technology Skills	33
2.1.3 Overview of Work Environment	45
2.2 Theoretical Review and Framework	55
2.2.1 Theory of Record Life Cycle Management	55
2.2.2 Technology Acceptance Model (TAM)	56
2.2.3 Work Adjustment Theory by Dawes and Lofquist (1984)	58
2.3 Review of Empirical Studies	59
2.3.1 ICT Skills and Use of Electronic Health Records	59
2.3.2 Work Environment and Use of Electronic Health Records	79
2.4 Conceptual Framework	83
2.5 Summary of Literature Reviewed	84
Endnote	86
Chapter Three - Methodology	
3.1 Research Design	105
3.2 Population of the Study	106
3.3 Sample and Sampling Technique	106
3.4 Description of Research Instrument	106
3.5 Validity of the Research Instrument	107
3.6 Reliability of the Research Instrument	108

3.7 Method of Data Collection	108
3.8 Method of Data Analysis	110
Endnote	110
Chapter Four – Results and Discussion of Findings	111
4.1 Demographic Data Analysis	112
4.2 Demographic Representation of the Respondents	112
4.2.1 Research Questions	114
4.3 Test of Hypotheses	122
4.4 Discussion of Findings	128
Endnotes	134
Chapter Five - Conclusion	136
5.1 Summary of Findings	136
5.2 Conclusion	137
5.3 Recommendations	138
5.4 Contribution to Knowledge	149
5.5 Suggested Areas for Further Research	139
Appendices	140
Bibliography	144
Biodata	163

List of Tables

Table	Title	Page
2.4	Conceptual Framework	84
3.1	Population of the Study	104
4.1	Questionnaire Administration and Return Rate	109
4.2	Demographic Representation of the Respondents	110
4.3a	Frequency of Electronic Health Records Usage by Health Professionals in Private Hospitals Ibadan, Oyo State, Nigeria	111
4.3b	Purpose of Use of Electronic Health Records by Health Professionals in Private Hospitals Ibadan, Oyo State, Nigeria	113
4.1	Perceived Competency Level in the use of ICT Skills by Health Professional in Private Hospitals Ibadan, Oyo State, Nigeria	115
4.2	Work Environment that exist in Private Hospitals Ibadan, Oyo State, Nigeria	117
4.3a-c	Influence of ICT Skills on the Use of Electronic Health Records by Health Professionals in Private Hospitals Ibadan, Oyo State, Nigeria	120
4.4a-c	Influence of work environment on the Use of Electronic Health Records By Health Professionals in Private Hospitals Ibadan, Oyo State, Nigeria	122
4.5a-c	Combined influence of ICT Skills and Work Environment on the use	

List of Figures

Title		Page
Figure 1	Conceptual Framework	87

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List of Acronyms

Acronyms	Meaning
ED	- Emergency Department.
EHR	- Electronic Health Record
FHIR	- Fast Healthcare Interoperability Resources
HIT	- Health Information Technology
ICT	- Information and Communication Technology
ICU	- Intensive Care Unit
IMS	- Management Information System
IT	- Information Technology
MIMIC	- Medical Information Mart for Intensive Care
Ms-Word	- Microsoft Word
PLS	- Partial List Squares
PMIS	- Performance Management Information System
RMP	- Risk Management Program
SMEs	- Small and Medium Scale Enterprises
TAM	- Technology Acceptance Model
TCP/IP	- Transmission Control Protocol/Internet Protocol
TPB	- Planned Behaviour Theory
URLs	- Uniform Resource Locators

- U.S.A - United State of America
- VDU - Visual Display Unit
- WAT - Work Adjustment Theory

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