

Safety And Healthy Practices Among The Medical Laboratory Practitioners In Ibadan South West Local Government, Oyo State.

**Ahmed Adeniyi SHITTU
LCU/PG/001835**

Being a MPH Thesis submitted to the Department of Public Health, Faculty of Basic Medical and Applied Sciences, Lead City University, Ibadan, Oyo State, Nigeria

In Partial Fulfillment of the Requirements for the Award of Master Degree (Mph) in Public Health

2022

Certification

This is to certify that **Ahmed Adeniyi SHITTU** with matriculation number (**LCU/PG/001835**) carried out this research work titled "Safety and Healthy Practices among the Medical Laboratory Practitioners in Ibadan South West Local Government, Oyo State" 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 in Public Health (MPH) and that this has not been previously submitted.

02-11-2022

Dr. Salako Abideen

(Supervisor)

02-11-2022

Dr. Olowolafe Tubosun

(Head of Department)

Dedication

This research work is dedicated to the God Almighty.

DO NOT COPY. LEAD CITY UNIVERSITY, NIGERIA

Acknowledgement

My gratitude to Almighty Allah for preserving my life since the beginning of this programme till this moment.

Foremost, I would like to express my gratitude to the Head of Department of Public Health, Dr. T. A. Olowolafe for his countless effort toward the success of this programme.

I deeply express my sincere appreciation to my supervisor Dr. Abideen Salako for his guidance and motivation on this project work.

I would also like to appreciate Mr. Bolaji, a student under my able supervisor for his dedication during my project work.

My unreserved appreciation also goes to the formal Head of Department, Dr. F. T. Akinsolu who has impacted knowledge and discipline on us.

I would also like to express my sincere appreciation to my wife, Mrs. Shittu F. O for encouragement and moral support throughout the period of the programme.

My appreciation to all the Medical Laboratory Practitioners in my area of studies.

I am grateful to all my colleagues, most especially, Mr. Timon Oyebami for his constant support.

Finally, I acknowledged the effort of Mr. Samuel Ayansola, my co-worker in the office.

"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

To Assess the Knowledge and Adherence among Medical Laboratory Practitioners to the Safety and Healthy Practices in Ibadan South West Local Government, Oyo State, Nigeria. A semi-structured, self, administered questionnaire was used. Information about the Knowledge of Medical Laboratory Practitioners about the Safety and Healthy Practices was sought, followed by the adherence and then related to their socio-demographic characteristics of the respondents. Information was assessed based on the response of the respondents. The study participants were Two hundred and thirty-one (231), mean age was 36.63 years ($SD \pm 9.407$), mean number of years of experience was 11.57 years ($SD \pm 8.101$). The percentage of male respondents was 37.7% while that of female was 62.3%. In response to their good knowledge towards about Safety and Healthy Practices, 93.1% of them has a good knowledge while 6.9% has a bad knowledge. The adherence was 80.5%. The socio-demographic characteristics also shows 75% significance. The attitude to safety is unsatisfactorily as 82.3% use cell-phone and other personal items in the Laboratory. This study shows a little deviation between the knowledge and the adherence to the Safety and Healthy practices among Medical Laboratory Practitioners. Emphasis should be made on training and re-training that will make them change the habit of using smartphone during laboratory procedures.

Keywords: Safety, Healthy, Medical Laboratory Practitioners

Word Count = 216

TABLE OF CONTENTS

Title	Page
Title page	i
Certification Page	ii
Dedication	iii
Acknowledgement	iv
Abstract	v
Table of Contents	vi-ix
List of Tables	x
List of Figures	xi
List of Acronyms	xii-xiii
 CHAPTER ONE: Introduction	
1.1 Background to the Study	1
1.2 Statement of the Problem	2
1.3 Justification of the Study	3
1.4 Objectives of the Study	3
1.4.1 General Objective	3
1.4.2 Specific Objective	3

1.5	Research Questions	4
1.6	Statement of Hypothesis	4
1.7	Significance of the Study	4
1.8	Scope of the Study	5
1.9	Limitation of the Study	5
1.10	Operational and Definition of Terms	5
Endnotes		6-7
 CHAPTER TWO: Review of Literature		
2.1	Conceptual Review	7-17
2.2	Theoretical Review	18-21
2.3	Review of Empirical Study	21-28
2.4	Conceptual Framework	28-31
2.4.1	Operational Definition of Conceptions/Terms/Variables	31
2.4.1.1	Safety	31
2.4.1.2	Health	31
2.4.1.3	Safety and Health in the Laboratory	31-32
2.5	Summary of Reviewed Literature	33
2.5.1	Recent Advances on Safety and Healthy Practices	33
2.5.2	Safe Practices Required By Medical Laboratory Practitioners	34-73

Endnotes	74-86
-----------------	--------------

CHAPTER THREE: Methodology and Materials

3.1	Research Design	87
3.2	Study Population	88
3.3	Sample and Sampling Techniques	88
3.4	Description of the Research Instrument	89
3.5	Validity of Research Instrument	89
3.6	Reliability of the Research Instrument	89
3.7	Data Collection	90
3.8	Data Analysis	90
3.9	Ethical Approval	91

CHAPTER FOUR: Results and Discussion of Findings

4.1	Demographic Data Analysis	92-95
4.2	Presentation of data	96-140
4.3	Discussion of Findings	110
4.3.1	Socio-demographic information	110
4.3.2	Knowledge about Safety and Healthy Practices in the Laboratory	110-111
4.3.3	Medical Laboratory Practitioners practice in line with Safety and Healthy Practice guidelines	111-113

4.3.4 Association between knowledge and the Adherence of Medical Laboratory Practitioners to Good Safety and Healthy Practice	114-115
4.3.4.1 Factors influencing adherence and Socio-demographic characteristics	116

CHAPTER FIVE: Conclusion

5.1 Summary of Findings	117-119
5.2 Conclusion	120
5.3 Recommendation(s)	121
5.4 Contribution of Knowledge	121
5.5 Suggested Areas for Future Research Topics	121

Bibliography	122-140
---------------------	----------------

Appendices

Appendix I	Consent form	141-143
Appendix II	Study questionnaire (study tool)	144-147
Appendix III	Bio-data	148-149
Appendix IV	University compliance certificate	150

List of Tables

Table	Title	Page
Table 2.1	Biosafety and biosecurity under the International Health Regulations	61
Table 4.1	Mean characteristics of the respondent	92
Table 4.2	Background characteristics of the respondent	94-95
Table 4.3	Knowledge about Safety and Healthy Practices in the Laboratory	98
Table 4.4	Adherence to Safety and Healthy Practices in the Laboratory	102
Table 4.5	Association between Adherence, Knowledge and other Socio-demographic characteristics	105-106
Table 4.6	Factors influencing adherence and Socio-demographic characteristics	108-109

List of Figures

Figure	Title	Page
Figure 4.1	Percentage Distribution of Knowledge about Safety and Healthy Practices	99
Figure 4.2	Percentage Distribution of Adherence to Safety and Healthy Practices	103

DO NOT COPY. LEAD CITY UNIVERSITY, NIGERIA

List of Acronyms

Abbreviation	Meaning
BBPs	Blood Borne Pathogens
BBFs	Blood and Body Fluids
CDC	Centers for Disease Control and Prevention
GMPP	Good Microbiological Practice and Procedure
HBV	Hepatitis B Virus
HCFs	Health Care Facilities
HCV	Hepatitis C Virus
HCWs	Health Care Workers
HIV	Human Immuno Deficiency Virus
IHR	International Health Regulations
ISO	International Organization for Standardization
LCU	Lead City University
LGA	Local Government Area
MLS	Medical Laboratory Scientist
MLT	Medical Laboratory Technician

NSI	Needle Stick Injury
PPE	Personal Protective Equipment
SAQ	Safety Attitude Questionnaires
SP	Standard Precautions
WHA	World Health Assembly
WHO	World Health Organization

DO NOT COPY. LEAD CITY UNIVERSITY, NIGERIA

DO NOT COPY. LEAD CITY UNIVERSITY, NIGERIA