

**Assessment of Knowledge and Practice on Hepatitis B Virus Infection Prevention Among  
Students of University in Ikere Ekiti, Ekiti State.**

**Mary Alaba ADERIBIGBE  
LCU/PG/001869**

**Being a MPH Thesis Submitted to the Department of Public Health, Faculty of Basic  
Medical & 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**

**2023**

## Certification

This is to certify that Mary Alaba ADERIBIGBE with matriculation number LCU/PG/001869 carried out this research work titled “Assessment of Knowledge and Practice on Hepatitis B Virus Infection Prevention among Students of Bamidele Olumilua University of Education Science and Technology Ikere Ekiti Ekiti State” in the Department of Public Health, Faculty of Basic Medical and Applied Science, Lead City University, Ibadan, Oyo State, for the award of Master Degree (MPH) in Public Health and that this has not been previously submitted.

---

Dr. T. A. Olowolafe  
(Supervisor)

---

Date

---

Dr. T. A. Olowolafe  
(Head of Department)

---

Date

## **Dedication**

This research work is dedicated to the Almighty God, the giver of all things

*Do Not Copy, Lead City University, Nigeria*

## Acknowledgement

I am grateful to Lead City University Ibadan, the Department of Public Health and all my lecturers for the support and educational knowledge imparted on me during the course of my study. I want to specially thank the Dean and entire Staff of Post Graduate School for the good administrative job and encouragement throughout course of this study.

I am grateful to my supervisor and mentor, Dr. Olatubosun Olowolafe for his patience, guidance, constructive advice, corrections and prompt feedback in making sure this project is completed.

I specially appreciate the Vice Chancellor, the Director of Centre for Research and Development and other staff of BOUEST Ikere Ekiti for giving me free access to the students of the institution.

I thank my Directors, my HOD Dr. C O Esan for being there for me in the course of this study. I am grateful to Mrs. Bunmi Olorunda, Miss Mene Lebari, Miss Taiwo Majolagbe for their help. Special thanks to my husband, my Children and my siblings for their love, support, care and encouragement.

## Abstract

Hepatitis B virus is more infectious than HIV, and the virus is endemic in Nigeria. The study was carried out among the students of Bamidele Olumilua University Education Sciences and Technology Ikere Ekiti aimed at investigating the knowledge and practice on Hepatitis B virus infection prevention. The objective of the study was to assess the knowledge and practice of the students regarding HBV infection prevention. The design was cross sectional study where data was collected using self-administered questionnaires given to about 400 students using and analysis was carried out by using Statistical Package for Social Sciences version 20. The results showed that 52% of the respondents have knowledge of HBV while 40% have not heard of HBV. 13.6% have undergone screening for HBV and only 14,6% had received vaccination. Minority demonstrated good practice towards prevention of HBV infection. It was concluded that low screening rates, lack of HBV vaccine uptake and poor practice towards infection prevention heightened the vulnerability of the students to HBV infection. Recommendation was made that adequate educational campaign to create awareness and prevention of the infection should be regularly done. Access to screening and vaccination should be made available to the students.

**Keywords:** Hepatitis B Virus, Knowledge, Practice, Infection, Prevention, Vaccination.

**Word Count:** 252 words

Do Not Copy, Lead City University, Lagos

## Table of Content

Title	Page
Title Page	
Certification	ii
Dedication	iii
Acknowledgement	iv
Abstract	v
Table of Content	vi
List of Appendices	x
List of Tables	xi
List of Figures	xii
List of Acronyms	xiii
<b>Chapter One: Introduction</b>	
Background to the Study	1
Statement of the Problem	4
Justification of the Study	5

Aim and Objectives of the Study	6
Research Question	6
Significance of the Study	6
Scope of the Study	7
Limitation of the Study	7
Operational Definitions of Terms	8
<b>Endnotes</b>	<b>9</b>
<b>Chapter Two: Literature Review</b>	
Conceptual Review	13
Theoretical Review	47
Review of Empirical Studies	54
Theoretical Framework	66
Summary of the Gap in Literature	81
<b>Endnotes</b>	<b>85</b>
<b>Chapter Three: Methodology</b>	
Research Design	102
Population of the Study	102

Description of the Study Area	102
Sample and Sampling Techniques	102
Description of Research Instrument	103
Validity and Reliability Research Instrument	104
Variables	104
Operational	106
Data Collection	106
Data Analysis	107
Ethical Approval	107
<b>Endnote</b>	108
<b>Chapter Four: Research and Discussion of Findings</b>	
Demographic Data Analysis	109
Presentation of Data	112
Discussion of Findings	133
<b>Endnotes</b>	138
<b>Chapter Five: Summary, Conclusion and Recommendations</b>	
Summary of Findings	140

Conclusion	141
Recommendation	142
Contribution to Knowledge	143
Suggested Area of Further Research	143
<b>Bibliography</b>	144
<b>Appendix I:</b> Questionnaire	164
<b>Appendix II:</b> Ethical Approval	165
<b>Appendix III:</b> Turnitin	166
Bio-data	168
University Compliance Certification	

*Do Not Copy, Lead City University, Nigeria*

## List of Appendices

Appendix I:	Questionnaire	164
Appendix II:	Ethical Approval	165
Appendix III:	Turnitin	166

*Do Not Copy, Lead City University, Nigeria*

## List of Tables

<b>Table</b>	<b>Title</b>	<b>Page</b>
4.1	Background Characteristic of the Respondents	117
4.2	Percentage Distribution of Knowledge on HBV	120
4.3	Percentage Distribution of Knowledge on HBV Infection Prevention	122
4.4	Percentage Distribution of Practice on HBV Infection Prevention	130
4.5	Percentage Distribution of Lifestyle and Drivers of HBV Infection	133
4.6	Factors Influencing the Practice of HBV Infection Prevention	135

Do Not Copy, Lead City University, Nigeria

## List of Figures

Figure	Title	Page
2.1	Hepatitis B Virus Virion	20
2.2	Structure of HBV Genomic	21
3.3	Overview of HBV Life Cycle	23
2. 4	Regulation of HBV transcription	27
	Transcription	33
	Health Model Belief	79
	Percentage Distribution of Knowledge on HBV Infection	123
	Knowledge of HBV Infection Prevention	124
	Percentage Distribution of those that have heard of Hepatitis	125
	Percentage Distribution of those that have heard of HB Virus	126
	Percentage Distribution of those that have been screened for HBV	127
	Percentage Distribution of those that have been vaccinated for HB	128
	Practice of Hepatitis B Virus Infection Prevention	131

## List of Acronyms

<b>Abbreviations</b>	<b>Meaning</b>
HB	Hepatitis B
HCC	Hepato-cellular Carcinoma
HBV	Hepatitis B Virus
SSA	Sub Saharan Africa
HBsAg	Hepatitis B Surface Antigen
BOUESTI	Bamidele Olumilua University of Education, Science and Technology, Ikere Ekiti.
STDs	Sexually Transmitted Diseases
HIV/AIDS	Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome
HCV	Hepatitis C Virus
WHO	World Health Organization
ART	Antiretroviral Therapy
EPI	Extended Programme for Immunisation
DNA	Deoxyribonucleic Acid
RNA	Ribonucleic Acid

HBeAg	Hepatitis B e Antigen
PEP	Post-Exposure Prophylaxis
HBIG	Hepatitis B Immune Globin
COVID-19	Coronavirus Disease-1
TPB	Theory of Planned Behavior
SCT	Social Cognitive Theory
HBM	Health Belief Model
TTM	Trans Theoretical Model
TRA	Theory of Reason Action
RDT	Rapid Diagnostic Test
ELISA	Enzyme Linked Immunosorbent Assay
RAPD	Random Amplified Polymorphic DNA
FCE	Federal College of Education
UNEC	University of Enugu Campus
MTCT	Mother to Child Transmission
KAP	Knowledge, Attitudes, Practices

SVP	Sub Viral Particles
ORF	Open Reading Frame
cccDNA	Covalently Closed Circular DNA
RT	Reverse Transcriptase
pgRNA	pregenomic RNA
SPSS	Statistical Package for Social Sciences
APOBEC3	apolipoprotein B editing complex 3
CBP	CREB-binding protein
cccDNA	covalently closed circular DNA,
C/EBP	CCAAT-enhancer-binding protein,
CREB	cAMP response element binding protein,
DHBV	duck hepatitis B virus,
eTIF	eukaryotic translation initiation factor,
FEN1	flap structure-specific endonuclease 1