



LAUTECH JOURNAL OF NURSING

VOL. 10, JANUARY, 2022

ISSN 2659-1405



PROF. M. O. LIASU
The Ag Vice Chancellor. LAUTECH, Ogbomosho

*A Publication of the Faculty of Nursing Sciences,
College of Health Sciences,
Ladokpe Akintola University of Technology, Ogbomosho, Nigeria*

Impact Factor Value of 0.861 based on International Citation Report for year 2020/2021

**10TH EDITION
LAUTECH JOURNAL
OF NURSING**

**A Publication of the Faculty of Nursing Sciences,
College of Health Sciences,
Ladoke Akintola University of Technology, Ogbomosho, Nigeria**

VOLUME 10, JANUARY, 2022

ISSN 2659-1405

10th Edition LAUTECH Journal of Nursing (LJN)

Copyright © LAUTECH JOURNAL OF NURSING (LJN)

ISSN 2659-1405

© Copyright 2022

VOLUME 10, JANUARY, 2022

Address:

Faculty of Nursing Sciences,
College of Health Sciences,
Ladoke Akintola University of Technology
P. M. B. 4000, Ogbomoso, Nigeria.

Tel: +2348033579737

Email: lautechjournalofnursing@gmail.com

Website: www.lautechjournalofnursing.org

All Rights Reserved:

No part of this journal may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the Editor –in-Chief.

Printed and published in Nigeria by

Estom Printers

Ibadan, Oyo State

Nigeria.

+2347030298365,

E-mail: durowojuthomas@gmail.com

EDITORIAL BOARD

- Editor-in-Chief** - **Professor Florence O. Adeyemo**
Director Post Graduate Nursing Programmes
Department of Community Health Nursing
Faculty of Nursing Sciences,
College of Health Sciences,
Ladoke Akintola University of Technology,
Ogbomoso, Nigeria.
- Assistant Editor-in-Chief** **Dr. Uba, E. James**
Institute of Education
University of Ibadan
Ibadan – Nigeria
- Associate Editors** - **Dr. Ganiyat A. Adeniran**
Ladoke Akintola University of Technology,
Ogbomoso, Nigeria
- Dr Ade Adeniji**
Department of General Studies
Ladoke Akintola University of Technology,
- Ogbomoso, Nigeria
- **Adeyemo, Adewale Akinola**
- **Yinyinola O. Makinde**
- Editorial Advisory Board**
Dr. ElkannahNdie Faculty of Health Sciences
National Open University of Nigeria
- Prof. Saliu Oguntola** College of Health Sciences,
Ladoke Akintola University of
Technology, Nigeria.
- Dr. Ademola Adele** College of Health Sciences,
Ladoke Akintola University of Technology, Nigeria.
- Dr. Toyin Musa** Kwara State University,
Malete Ilorin, Nigeria.
- Prof. Adedayo A. Adegbola** Ladoke Akintola University of Technology,
Ogbomoso, Nigeria.

EDITORIAL COMMENT

1. LAUTECH Journal of Nursing (LJN) has the goal of becoming the most widely cited Nursing Journal in West Africa with Impact Factor Value of 0.861 based on International Citation Report (ICR) for the year 2020-2021.
2. The LJN has the tripartite mission of:
 - (a) Promoting a culture of excellence in Nursing Research.
 - (b) Encouraging the exchange of profound and innovative ideas capable of generating creative practice in nursing research practise.
 - (c) Disseminating information on nursing related development that are not usually easily available to academics and practitioners.
3. The Journal will accordingly encourage the publication of the following categories of papers.
 - (a) Research papers that move away from orthodoxy and which really break new grounds in terms of methodology and findings.
 - (b) Essays and issues papers that contribute to re-orienting received ideas, values and practices.
 - (c) Documents emanating from national and international conferences, as well as from largescale research work that emerging trends and thinking in nursing related development.
4. LJN is published biannually in any area of nursing interest or relevant to needs of academics and practitioners.

In this volume, sixteen (16) manuscripts scale through the eye of the needle of the Editor-in Chief. The title of the papers in this edition are: Evaluation of Nurses' Actions and Opinion on Pain Assessment of Hospitalised Patients; Ultraviolet Radiation on Gunshot Wounds: Clinical Case Reports; Assessment of Knowledge and Compliance with Coronavirus Protocols Among Healthcare Professionals; Availability of Essential Components of Maternal Healthcare in Health Institutions; Factors Associated with Overweight and Obesity among Adolescents; Health-Seeking Behaviours, of Women Presenting with Advanced Stages of Breast Cancer: Sociocultural Beliefs and Practices on Placenta Disposal and Processing among Multiparous Women; Parental Control, Social Media Utilisation And Risky Sexual Behaviour Among Adolescents; Assessment of Nosocomial Infection Preventive Measures Utilized by Clinician Nurses in Intensive Care Unit; Alternative Medicine Use and its Perceived Effectiveness in Management of Hypertension; Assessment of Modern Contraceptives Uptake among Women of Reproductive Age; Community Health Extension Workers and Traditional Birth Attendants' Neonatal Resuscitation Practices of Babies Born with Asphyxia; Midwives' Current Screening Practice of Intimate Partner Violence among Pregnant Women in Northern Nigeria; Assessment of Cancer Patients' Quality of Life; Knowledge, Attitude and Practice of School Health Program among Secondary School Teachers and Traditional Birth Attendants' Knowledge of First-Aid Management and Skills of Selected Labour Emergencies in Ogbomosho, Oyo State, Nigeria: an Intervention Study.

EDITORIAL DESK

Welcome to LAUTECH Journal of Nursing!

LAUTECH Journal of Nursing focuses on but not limited to research findings in the different areas of nursing: Nursing Care, Nursing Education, Medical Surgical Nursing, Maternal and Child Health Nursing, Community Public Health Nursing, and Psychiatric/Mental Nursing. This journal is published to promote quality scholarly writing and hence instigating and generating vibrant discourse in the different areas of nursing. Apart from providing an outlet for publications of research findings, it offers opportunities for professionals and students to disseminate their views or position on topical issues and emerging theories within the scope of the journal. The Journal is peer reviewed by seasoned scholar. Six-three authors have contributed in one way or the other to the tenth edition of the journal.

In this regard, the journal welcomes articles from individuals and corporate organisations for the ninth edition. Interested contributors may forward copy of their manuscript; computer-typed in double line spacing, using Times New Roman 12 point font, with abstract not more than 250 words on a separate page. Manuscript should not be more than 15 pages and sent to doctoradeyemo@yahoo.com or lautechjournal@gmail.com.

Happy reading!!!

GUIDELINES FOR AUTHORS

Contributors to the journal are to respect its avowed principle of QUALITY in all its Ramifications and ensure that:

(a) Presentation of Manuscript

We require an electronic copy, doubled spaced and paginated. The file should be saved as a Word Document, do not use PDF. Ensure the manuscript you provide is double space throughout, including indented block quotes, excerpt, extract, references. The font should be Times New Roman 12 Points. **RESEARCH PAPERS** are technically and faultlessly designed, executed and reported

(b) ESSAYS AND ISSUES PAPERS are analytically sound, presenting solidly original ideas that can positively influence change in educational thoughts, research and practices.

(c) The manuscript, which should include title, abstract, text, tables, figures, where necessary, should be typewritten on A4 size paper with double-spacing and should not exceed 15 pages

(d) The abstract should not be more than 250 words

(e) Authors should use the latest APA manual of styles. Some examples are:

i. Book

Uba, J. E. (2007). *Overcoming the hurdles of research projects, thesis, dissertation*. Calabar, Nigeria, Ushie Printers.

ii. Chapter in edited book

(a) Simeon, O.L & Adewale, J.G. 2013. Student Extrinsic and Intrinsic Factors as Correlates of Technical and Vocational Education Enrolment in Osun State. A.O.U.Onuka. Eds. Esthom Graphic Prints, Nigeria. 286-296.

iii. Chapter in edited book

(b) Oluwaponmile G. A.& Adegbile J. A. 2013. The Concept of Individualization of Instruction and Christian Education. A. O. U.Onuka. Eds. Esthom Graphic Prints, Nigeria. 114-155.

iv. Article from journal

Halliday, M. A. K. (1961). Categories of the theory of grammar word, 17, 241-92. (**Note** No 'pp.' required for journal articles).

Millers, A. (2000). Choice and the relative pleasure of consequences. *Psychological Bulletin* 126.3:910-924.

Landro, M. (1999). Repeatability issues of 3-D VSP data. *Geophysics* 64:1673-1679.

_____. 2001. Discrimination between Pressure and fluid saturation changes from time lapse seismic data. *Geophysics* 66:836-844.

v. Article from magazine

Kandel, E.R. and Squire, L.R. 2000. Neuroscience: breaking down scientific barriers to the study of brain and mind. *Science* 290.Nov 10:113-1120.

Article from newspaper

(where the name of the author is neither given nor known, begins reference with "Anon")

Encyclopaedia article

Bergmann, P.G. 1993. Relativity. *The new encyclopaedia Britannica*. Chicago: Encyclopaedia Britannica, 501-508.

Patent

Fawole, I., Afolabi, N.O. and Ogunbodede, B.A. 1986, Description of cowpea cultivar: IFH101.NGVU-00-22,2000.

Unpublished theses, dissertation, projects and essays

Alaba, O.B. 2003. Balance of payment adjustment mechanisms in Nigeria. PhD. Thesis. Department of Economics. University of Ibadan. Xiv+183pp

E-journal article from the internet

VandenBos, G, Knapp, S. and Deo, J. 2001. Role of reference element in the selection of resources by psychology undergraduates. *Journal of Bibliographic Research* 5. 117- 123. Retrieved June. 13,2019, from <http://jbr.org/article.html>.

Organization/Government/Personal web page

U.S. General Accounting Office. Feb., 1997, Telemedicine: federal strategy is needed to guide investments. Publication No. GAO/NSAID/HEHS-97-67. Retrieved Sept. 15,2000, from http://www.access.gpo.gov/su_docs/aces_160.shtml?/gao/index.html.

Tables

1. A table should be typed with the minimum of horizontal rules. Vertical rules should be avoided.
2. Table should be referred to in the text as 'in Table 2' rather than 'in the following table or in the table above or below'.
3. All tables should have captions, source and notes are placed immediately below.
 - (f) Papers which should be written on only one side should be submitted in triplicate (hard copies)
 - (g) Papers are blind peer-reviewed, each paper attracts an assessment fee of #5000.00 or \$100.00.

- (h) Neither the editor, nor the editorial board shall be liable for article(s) lost in transit.
- (i) The editor and editorial board will not enter into correspondence with authors over rejected articles
- (j) Those whose articles are accepted for publication will pay the sum of #40,000.00 and be informed as regards other commitments:
- (k) Papers could be transmitted at any time for publication in any subsequent issue.

Manuscripts should be submitted electronically to the:

Editor in-chief, **Florence O. Adeyemo**, Department of Community Health Nursing, Faculty of Nursing Sciences, College of Health Sciences, Osogbo, Osun State, Ladoke Akintola University of Technology, Ogbomosho and copy the Editor, LAUTECH Journal of Nursing (LJN) using the following email addresses: doctoradeyemo@yahoo.com or lautechjournal@gmail.com

Copyright

1. Permission must be obtained if you want to quote at length from another author's work or use an illustration previously published. Please note that obtaining permissions can be a lengthy process and should therefore be initiated well before the final manuscript is submitted to Continuum. Please refer to copyright holder's website/information: they may have forms or templates for requesting permission. If they provide no specific information on submitting requests, a standard permission request letter is available from us and should be used when approaching the copyright holder.
2. Please be aware that permission must also be sought for images, text etc that is sourced from the internet. Copyright may belong to the website owner, or to the original creator. Do not assume that just because an item is on a website it is in the public domain - it may be that the website owner does not have the permission to use it.

If you have any questions about the preparation of your article at any stage, please do not hesitate to ask.

Prof. Florence O. Adeyemo
The Editor-in-Chief
doctoradeyemo@yahoo.com or
lautechjournal@gmail.com

LIST OF CONTRIBUTORS

ADETUNMISE OLUSEYI OLAJIDE

Faculty of Nursing Science,
Ladoke Akintola University of Technology,
Ogbomosho, Oyo State, Nigeria.
Phone No: 08037287328.
Email: adetunmiseolajide@gmail.com

ADERONKE JULIENNA ADETUNJI

School of Nursing,
Lagos University Teaching Hospital,
Idi-Araba, Lagos
Phone No: 08033308938
Email: ronkeadetunji56@gmail.com

ADEYEMO FLORENCE O.

Department of Community/Public Health,
Faculty of Nursing Sciences,
Ladoke Akintola University of Technology,
Osogbo, Nigeria
doctoradeyemo@yahoo.com
+2348033579737

AGATHA OGUNKORODE

Department of Nursing Science,
College of Medicine & Health Sciences,
Afe Babalola University, Ado-Ekiti, Nigeria;
Phone No: 08065821012, +2349078129160
Email: ogunkorodeqo@abuad.edu.ng

AJAYI, ANTHONY

Department of Physiotherapy,
Ahmadu Bello University Teaching Hospital
Zaria, Nigeria
Phone No: +2348023639269
Email: ehichristo@yahoo.com

ANYEBE, EMMANUEL EJEMBI

Department of Nursing Sciences,
Faculty of Clinical Sciences,
University of Ilorin, Kwara State, Nigeria
Phone No: +2348036422771
Email: ejembianyebe@gmail.com;
anyebe.ee@unilorin.edu.ng;

AYISHETU U. MUSA-MALIKI

Department of Nursing Sciences,
Ahmadu Bello University, Zaria – Nigeria.
Email: aumusamaliki@abu.edu.ng,
aishaudu@yahoo.com
Phone Number: +234 7038159582
Twitter: @Ayi_1

BARAKAT BOLAJOKO

Department of Nursing Science,
College of Medicine and Health Sciences,
Afe Babalola University, Ado-Ekiti, Nigeria
Phone No: 08140551353
Email: ayooreoluwa@gmail.com

CHIKA C. H. ODIRA

Department of Nursing Science,
Nnamdi Azikiwe University Awka,
Anambra State, Nigeria
Email: chikachioma@gmail.com,
Phone No: +2347030615243

CHRISTIANA OLANREWAJU SOWUNMI;

Babcock University School of Nursing,
Ilishan Remo, Ogun State, Nigeria
lanresowunmi@hotmail.com
+2348023500321

CONSTANCE O. IZEKOR

School of Post Basic Nursing,
Irrua Specialist Teaching Hospital,
Irrua, Nigeria
Phone No: +234 8056461045
Email: constanceizekor@isth.com.ng

DALHAT SANI KHALID

Department of Nursing Science,
Faculty of Allied Health Sciences,
College of Medical Sciences,
Ahmadu Bello University Zaria, Nigeria
Phone No:07035385167
Email: dksanni@abu.edu.ng

DEBORAH TOLULOPE ESAN

Department of Nursing Science,
College of Medicine and Health Sciences,
Afe Babalola University, P.M.B. 5454,
Ado-Ekiti, Nigeria
esandt@abuad.edu.ng
+234(0)8062484864

DELIVERANCE BROTOBOR

Department of Nursing Science,
Ambrose Alli University, Ekpoma, Nigeria
deliverancebrotozor@gmail.com
+234 9055468987

EHWARIEME TIMOTHY A.

Department of Nursing Science,
School of Basic Medical Sciences,
University of Benin, Benin City,
Edo State, Nigeria
Phone No:08060696870
Email timy4real12@gmail.com

EDITH N. CHIEJINA

Department of Nursing Science,
Nnamdi Azikiwe University Awka,
Anambra State, Nigeria
Phone no: +2348037463279
Email:nkechichiejina@yahoo.com

EMMANUELA. OYEDELE

Department of Nursing Science,
College of Health Sciences,
University of Jos, Jos, Plateau State, Nigeria
Phone No: 08038266157
Email: Juliedad2003@yahoo.com

ESEOGHENE OGBURU

Department of Nursing Science,
College of Medicine and Health Sciences,
Afe Babalola University, Ado-Ekiti, Nigeria
Phone No:08103769157
Email: aniogburu13@gmail.com

EZEAKA PATIENCE

Nursing Services department,
Lagos University Teaching Hospital, Lagos
Phone No:08060627242
Email: ezeakafavour@gmail.com

F. ELIZABETH OJO

Department of Nursing,
College of Medicine and Health Sciences,
Afe Babalola University of Ado-Ekiti
Phone no: +2348034292020
Email: ojofe@abuad.edu.ng

FOLASHADE WINA

Department of Nursing Science,
University of Jos, Jos. Plateau State, Nigeria
Phone no: 08065308349
Email:fshabal2002@yahoo.com.

GAKNUNG BONJI

Department of Nursing Science,
University of Jos, Jos. Plateau State, Nigeria
Phone No: +2348033959627
Email bonjigaknung@gmail.com
gaknungb@unijos.edu.ng

GRACE O. DANIEL

Department of Nursing Science,
University of Jos, Jos. Plateau State, Nigeria
Phone no: +234 8036285950
Email:gracemola2002@yahoo.co.uk

I. D. OWOEYE

Department of Nursing,
College of Medicine and Health Sciences,
Afe Babalola University of Ado-Ekiti
Phone no: +2348034252290
Email: owoeyeid@abuad.edu

IDRIS ABDULRASHID DABAI

Department of Nursing Science,
Bayero University, Kano Nigeria
08063375818
idrzdabai@gmail.com

IRODI C. CANIS

Department of Nursing,
Igbinedion University, Okada, Edo State
Phone No: 08034901130.
Email: Irodicanis@yahoo.com

ISIBOR EWERE ANITA

Department of Nursing
University of Benin, Nigeria
Phone No:08085893875
Email ewere85@gmail.com

MERCY OLUFUNKE IWAOLA

Department of Nursing,
Babcock University Teaching Hospital,
Ilishan Remo, Ogun State, Nigeria
Phone No: 07036138033.
Email olufunkeiwalola@yahoo.com

MOHAMMED, ZULAIHABALA.

Department of Physiotherapy,
Ahmadu Bello University Teaching Hospital
Zaria, Nigeria
Phone No: +2347035106155
Email zulybal27@gmail.com

NADYEN SHIKPUP JORDAN.

Department of Nursing Science,
University of Jos, Jos. Plateau State, Nigeria
Phone No: 070396424284.
Email nadyenshikpup@gmail.com

NDIE, E. C.

Department of Nursing Science,
National Open University of Nigeria,
Abuja Nigeria,
Plot 91 Cadastral Zone, Jabi, Abuja.
Phone No:07066789961.
Email: chubike05@yahoo.com

NZELUEAKA HELENA.

Department of Nursing Science,
School of Basic Medical Sciences,
University of Benin, Benin City,
Edo State, Nigeria.
Phone No:07068813915
Email: nzelueakah@gmail.com

OGUNLEYE O. R.

School of Nursing Ekiti State Teaching Hospital,
Ado-Ekiti
+2347061825698

OGWA, E. T.

Oyinlolaogunleye12@gmail.com
Alex Ekwueme University Teaching Hospital
Abakaliki
Phone No: 08035074128
Email: favourogwa@yahoo.com

OKO-OSE, JOSEPHINE

Department of Nursing
University of Benin, Nigeria
joechiazor@yahoo.com
08034078785,

OLADAPOT. OKAREH

Department of Environmental Health Sciences,
Faculty of Public Health,
University of Ibadan, Ibadan
Phone No: 08057311182.
Email: dapsy2001@yahoo.co.uk

OLAOLORUNPO OLORUNFEMI

Department of Medical-Surgical Nursing,
Faculty of Basic Medical Science,
Federal University Oye-Ekiti,
Ekiti State, Nigeria
Phone: +2348034694675
Email: olaolorunfemi@yahoo.com
<https://orcid.org/0000-0001-9525-8757>

OLAWALE JINAID JUBRIL

Department of Physiotherapy,
Ahmadu Bello University Teaching Hospital
Zaria, Nigeria
Phone No: +2347035106155.
Email: jjolawale@yahoo.com

OLUBIYI BISOLA

Research Hub, Africa
The bunker 3 Atabara Street, off Cairo Street,
Wuse 2, Abuja
Phone No: 08038105402
Email: omotooke@gmail.com

OLUBIYI M. VINCENT

Department of Physiology,
College of Health Sciences,
Kogi State University, Ayingba, Kogi State
Phone No: 09031151038
Email: mavolubiyi@yahoo.com

OLUBIYI SIMEON KAYODE

Department of Nursing Sciences,
Faculty of Clinical Sciences,
College of Health Sciences,
University of Ilorin
Phone No: 08033617649
Email simeonolubiyi@gmail.com
olubiyiskunilorin.edu.ng

OLUBUNMI OLUWAKEMI YEJIDE

Department of Nursing,
National Open University of Nigeria,
Ado-Ekiti Study Centre
Phone No: 08169074178
Email: olubunmikemi3@gmail.com

OLUFAYOKE VICTORIA MIDE-ATOLANI

School of Nursing Ekiti State Teaching Hospital,
Ado-Ekiti
+2348068968892
mideatolanifayokemi@gmail.com

OLUWAFUNMILAYO ESTHER FADARE

Department of Nursing Science,
College of Medicine & Health Sciences,
Afe Babalola University, Ado-Ekiti, Nigeria;
07063545905
phadarephunmie@gmail.com

OLUWASEUN ENIOLA ADEGBILERO-IWARI

Department of Community Medicine,
College of Medicine & Health Sciences.
Afe Babalola University, Ado-Ekiti, Nigeria.
07060826910
Seuneniola01@gmail.com

OLUWASEYI ABIODUN AKPOR

Department of Nursing Science,
College of Medicine & Health Sciences,
Afe Babalola University, Ado-Ekiti, Nigeria;
Phone No: +234706851599.
akporoa@abuad.edu.ng

OLAWUYI VICTORIA FEHINTOLA

Department of Nursing,
National Open University of Nigeria,
Ado-Ekiti Study Centre
Phone No: 08139380475.
Email: fehintideraa@gmail.com

OMOROGBE CHRISTIE E.

Department of Nursing Science,
School of Basic Medical Sciences,
University of Benin, Benin City,
Edo State, Nigeria
Phone No: 08062304948.
Email: omorogbechristie@gmail.com

ONASOGAA. OLAYINKA

Department of Nursing Sciences,
Faculty of Clinical Sciences,
College of Health Sciences,
University of Ilorin
Phone No: 08064967578
Email yinka_onasoga@yahoo.

OPALUWA, SURAJO. AHMODU

Department of Medical Microbiology,
Ahmadu Bello University Teaching Hospital
Zaria, Nigeria
Phone No: +2348034516359
Email: ahmed_opaluwa@yahoo.co.uk

PATRICIA O. AKOWE

Primary Health Care Department,
Etsako East Local Government Area,
Agenebode, Edo State, Nigeria
Phone No: +234 9026339245
Email:patakowe@yahoo.com

PAULINE O. M. EZENDUKA

Department of Nursing Science,
Faculty of Health Sciences and Technology,
Nnamdi Azikiwe University Awka,
Anambra State, Nigeria
Email:poezendukap@gmail.com,
Email:+2348033476403

PETER UDEH ADA

Department of Nursing Science,
University of Jos, Jos. Plateau State. Nigeria
Phone No: 08039365746
Email:petersclevery@gmail.com

QUEEN STELLA OTAIGBE

Edo State School of Midwifery,
Benin City, Nigeria
Phone No: +234 7031841598
Email:otaigbeqs@gmail.com

RISIKAT IDOWU FADARE

Department of Nursing Science,
College of Medicine & Health Sciences,
Afe Babalola University, Ado-Ekiti, Nigeria;
08034679248
fadareri@abuad.edu.ng

SAROR, L. A.

Department of Nursing Services,
Ahmadu Bello University Teaching Hospital
Zaria, Nigeria
Phone No: +234 8028483240
Email; awasaror2@gmail.com

SALIHU ABDURRAHMAN KOMBO

Department of Nursing Science,
Faculty of Allied Health Sciences,
College of Medical Sciences,
Ahmadu Bello University Zaria, Nigeria
08061307902
aksalihu@abu.edu.ng

SERAH OSAMUDIAMEN BOLAJI-OSAGIE

Department of Nursing,
University of Benin, UNIBEN
Phone No: 07064938101
Email: princy_911

SINEGUGUE.DUMA

Department of Health and Rehabilitation Sciences,
University of Cape Town, South Africa.
Phone Number: +27 824492635
Email: dumas1@ukzn.ac.za

TOLULOPE FUNMILOLA OJO

Department of Public Health,
Afe Babalola University, Ado-Ekiti, Nigeria
ojotolulopef@abuad.edu.ng
08169195591

TRENG NAANFWANG. URBANUS

Department of Nursing Science,
University of Jos, Jos. Plateau State Nigeria.
Phone No: 08138250941
Email: trengurbanus@yahoo.com

UMARN. J.

Department of Nursing Sciences,
Faculty of Clinical Sciences,
College of Health Sciences,
University of Ilorin
Phone No: 08065482425
Email: umaribna@gmail.com

YAHAYA HAMZA SANI

Department of Nursing Science,
Faculty of Allied Health Sciences,
College of Medical Sciences,
Ahmadu Bello University Zaria, Nigeria
+2347035385167
hamzayahaya@abu.edu.ng

YUSUF ABDURRASHID GAMBARI

Department of Nursing Sciences
Faculty of Clinical Sciences
College of Health Sciences
University of Ilorin, Ilorin, Kwara State
08072777457
yusufgambary@gmail.com

TABLE OF CONTENTS

1.	Evaluation of Nurses' Actions and Opinion on Pain Assessment of Hospitalised Patients Ogwa, E. T. & Ndie, E. C.	1
2.	Ultraviolet Radiation on Gunshot Wounds: Clinical Case Reports Anyebe, E. E.; Ajayi, A.; Opaluwa, S. A.; Olawale J.; Muhammed Z. B. & Saror, L. A.	8
3.	Assessment of Knowledge and Compliance with Coronavirus Protocols Among Healthcare Professionals Dalhat Sani Khalid, Salihu Abdurrahman Kombo, Idris Abdulrashid & Yahaya Hamza Sani	16
4.	Availability of Essential Components of Maternal Healthcare in Health Institutions Chika C. H. Odira; Pauline O. M. Ezenduka & Edith N. Chiejina	25
5.	Factors Associated with Overweight and Obesity Among Adolescents Grace O. Daniel; Treng N. Urbanus; Emmanuel A. Oyedele; Folashade Wina; Nadyen J. Shikpup; Peter Udeh & Bonji Gaknung	40
6.	Health-Seeking Behaviours of Women Presenting with Advanced Stages of Breast Cancer Agatha Ogunkorode; F. E Ojo; D. T. Esan & I. D. Owoeye	52
7.	Sociocultural Beliefs and Practices on Placenta Disposal and Processing Among Multiparous Women Deborah Tolulope Esan, Agatha Ogunkorode; Barakat Bolajoko; Aderonke Julienna Adetunji & Oladapo T. Okareh	65
8.	Parental Control, Social Media Utilisation and Risky Sexual Behaviour Among Adolescents Constance O. Izekor; Florence O. Adeyemo; Deliverance Brotobor; Patricia O. Akowe & Queen Stella Otaigbe	75
9.	Comparative Assessment Of Nosocomial Infection Preventive Measures Utilized By Clinician Nurses in Intensive Care Unit Ehwarieme Timothy A; Omorogbe Christie E. & Nzelueaka Helen A.	84
10.	Alternative Medicine Use and Its Perceived Effectiveness in Management of Hypertension Oluwaseyi Abiodun Akpor; Tolulope Funmilola Ojo; Risikat Idowu Fadare; Oluwafunmilayo Esther Fadare; & Oluwaseun Eniola Adegbilero-Iwari	103

11. Assessment of Modern Contraceptives Uptake Among Women of Reproductive Age
**Olubiyi Simeon Kayode¹ Adeyemo F. O.; Umar N. J.; Olawuyi Victoria Fehintola;
Olubiyi M. Vincent; Olubunmi Oluwakemi Yejide & Irodi C. Canis** 113
12. Community Health Extension Workers and Traditional Birth Attendants'
Neonatal Resuscitation Practices of Babies Born With Asphyxia
Deborah Tolulope Esan, Agatha Ogunkorode & Eseoghene Ogburu 122
13. Midwives' Current Screening Practice of Intimate Partner Violence Among Pregnant
Women in Northern Nigeria
Ayishetu U. Musa-Maliki & Sinegugu E. Duma 132
14. Nurses Perception of Cancer Patient Quality of Life
Bolaji-osagie, Sarah O.; Oko-ose, Josephine & Isibor Ewere Anita 141
15. Knowledge, Attitude And Practice of School Health Program Among
Secondary School Teachers
**Olubiyi S. Kayode; Onasoga A. Olayinka; Yusuf A. Gambari; Ezeaka Patience;
Irodi C. Canis; Olufayoke V. Mide-atolani; Ogunleye O. R. & Olubiyi Bisola** 155
16. Traditional Birth Attendants' Knowledge of First-aid Management and Skills of
Selected Labour Emergencies in Ogbomosho, Oyo State, Nigeria: An Intervention Study
**Christiana O. Sowunmi; Adetunmise O. Olajide; Olaolorunpo Olorunfemi;
Mercy O. Iwaola & Oluyemisi F. Adeyemo** 163

ALTERNATIVE MEDICINE USE AND ITS PERCEIVED EFFECTIVENESS IN MANAGEMENT OF HYPERTENSION

OLUWASEYI A. AKPOR; TOLULOPE F. OJO; RISIKAT I. FADARE;
OLUWAFUNMILAYO E. FADARE & OLUWASEUN E. ADEGBILERO-IWARI

ABSTRACT

Hypertension is one of the most common non-communicable diseases globally affecting up to about 20% of the world's adult population. Several challenges are associated with the disease; the complex nature of its therapy and the socio-economic status of many patients have increased reliance on non-conventional treatment. In low-income countries, the use of herbal medicine is common and increasing among hypertensive patients. Therefore, this study aimed at investigating the use of herbal medicine and its perceived effectiveness among hypertensive patients attending the outpatient department (the cardio clinic) of the Federal Teaching Hospital Ido-Ekiti, Ekiti State, Nigeria. The study employed a descriptive cross-sectional survey design. Ninety-two respondents were selected using a consecutive sampling technique. A semi-structured and validated questionnaire was administered to the study participants. The results of this study showed that the level of utilization of herbal medicine among respondents is high (62.3%) and the herbal medicine used for hypertension are ginger/garlic 18(20.9%), cocoa powder 15(17.4%) and Agbo (concoction) 15(17.4%). The study further observed that the reasons for utilization of herbal medicine among respondents include disappointment that conventional medicine is not working 35(40.5%). Lastly, this result indicated that the perceived effectiveness of herbal medicine in the treatment of hypertension is positive. The study concluded that the usage and perceived effectiveness of herbal medicine among hypertensive patients is quite high. Hence, adequate awareness and sensitization of the extent of use, benefit, and safety of herbal medicine among hypertensive patients should be properly addressed by healthcare providers.

Keywords: Cardio-vascular diseases; Herbal medicine; Hypertensive Patients.

INTRODUCTION

Hypertension is one of the most common non-communicable diseases worldwide affecting up to 20% of the world's adult population (Singh *et al.*, 2017). This disease is estimated to be responsible for 4.5% of the global disease burden as it is a global phenomenon. The World Health Organization (WHO, 2021) reports that in 2015, 1 in every 4 male adults and 1 in every female adult have raised blood pressure worldwide. Omotoye & Sanusi, (2018) described hypertension as one of the leading factor for mortality worldwide and approximately 80% of the deaths occur in low and middle-income countries. Keasley *et al.*, (2020) posited that its diagnosis is getting increasingly complex.

According to Musinguzi *et al.*, (2018), the health-seeking behaviour and utilization of health care services for hypertension in low-income countries is often a complex issue since people seek care from multiple sources outside the formal orthodox health care system because of the several challenges associated with the disease such as the socio-economic status of the patients in coping with the quality and cost of services, the complexity of therapy needed by the patients, the health beliefs and demographic characteristics of the patients. Ibrahim *et al.*, (2018) posited that other sources of treating hypertension by the patients other than clinical treatment include the use of traditional practices inherited from the ancestors which are known as Complementary and Herbal Medicines (CAM).

Herbal medicine consist of the use of medicinal plants for the prevention and treatment of diseases, use of standardized herbal extracts, which may range from traditional to popular medicines in every country. Firenzuoli & Gori, (2007) explained that herbs are natural products and their chemical composition differs depending on several factors and therefore varying from people to people, from energetic decoctions to the use of herbal extracts.

Despite the international diversity and adoption of traditional medicine in different cultures and regions, there is no parallel advance in international standards and methods for its evaluation. National policies and regulations for traditional medicine are lacking in many countries and where they are available, it is difficult to fully regulate traditional medicine products, practices, and practitioners due to variations in definitions and categorizations of traditional medicine therapies (WHO, 2005).

Currently, the utilization of herbal medicine in the treatment of hypertension has increased all over the world and Azizah *et al.* (2021) indicated that about 80% of patients use herbal medicine, both in single form or in combination with antihypertensive drugs, for the treatment of hypertension in various countries. Liwa *et al.* (2014) reported that 80% of chronic hypertensive patients in Morocco and 63.9% of patients in India use herbal medicines for the management of their illnesses. In Sub-Saharan Africa, about 38.6% of adults with hypertension used herbal medicines, while half of these patients also use herbal and conventional medicine concurrently (Liwa *et al.*, 2014). Existing studies carried out in Nigeria reveal a 25 to 37.8% prevalence of herbal medicine use among adults living with hypertension (Amira & Okubadejo, 2007; Olisa & Oyelola, 2009; Osamor & Owumi, 2010).

Despite the increase in the use of herbal medicine, Yuri *et al.* (2007) explained that only a few reports are made on how patients perceive the effectiveness of this health care modality in specific diseases. Lulebo (2017) states that treatment adherence is mainly influenced by the perception of a patient towards the effectiveness of treatment and quality of health care (its availability and affordability, and the relationship between patient and provider). The indiscriminate, irresponsible, or non-regulated use of several herbal medicines may put the health of their users at risk of toxicity (Janatova *et al.*, 2015).

The inappropriate use of herbal medicine may have undesirable, as well as, dangerous outcomes. Although some herbal medicines are generally safe, may lack the desired antihypertensive properties or they may interact with the prescribed medicine thereby considerably elevating blood pressure (Mbulo, 2015). Other adverse effects such as abdominal pain, diarrhea and emesis or dizziness have been identified by Djuv *et al.* (2013).

The study took the basis of the Health Belief Model (HBM) by Rosenstock (1966). The model remains one of the most widely recognized conceptual frameworks of health-promoting behavior. HBM is beneficial in addressing an individual's perception of the ephth of the threat posed by a health problem (perceived, susceptibility, and severity), perception of the usefulness of behavior in decreasing the risk or threat of the disease (perceived benefits), and perceived barriers (one's perception of the obstacles in adopting the new behavior (Rosenstock, 1966, 1974). In addition, this model explains that certain modifying factors or variables such as age, sex, culture, and educational level do influence one's perceptions and experiences that activate readiness to change, known as cues to action.

HBM reveals why people choose to use herbal medicine. When a person discovers they are susceptible to a particular illness they may seek an alternative to herbs as a preventive measure before the symptoms of such illness are manifested (perceived susceptibility). When a person perceives the diagnosis to be serious, he may consider using herbal medicine in conjunction with the orthodox treatment he is receiving from a conventional practitioner as a way of taking advantage of all possible treatments (perceived Seriousness). Also, if a person believes that taking herbal medicine will improve his health (Perceived Benefits) either through previous experience with herbal medicine or by learning through other means, such as family, friends, and religious beliefs, (Cues to Action) he may opt for the use of herbal medicine. However, in a situation where the individual does not have the financial strength or stability that covers conventional medical treatment (perceived Barriers), he may see this as a barrier and resort to herbal medicine. Finally, if the person believes he is capable of following through with a particular herbal medicine-related action (self-efficacy), this should influence their herbal medicine-related behaviors.

Objectives of the study

The aim of this study is to assess the use of herbal medicine and its perceived effectiveness among hypertensive patients attending the outpatient department (the cardio clinic) of the Federal Teaching Hospital (FETHI) Ido-Ekiti, Ekiti State, Nigeria.

The specific objectives are to:

1. Assess the use of herbal medicine among hypertensive patients.
2. Identify the types of herbal medicine products used among hypertensive patients.
3. Determine the perceived effectiveness of herbal medicine.

Research questions

- i. What is the level of utilization of herbal medicine by hypertensive patients?
- ii. What are the types of herbal medicine used among hypertensive patients?
- iii. What is the perceived effectiveness of herbal medicine by hypertensive patients?

METHODOLOGY

Study design; The researchers used a descriptive cross-sectional survey design.

Study setting; The study was conducted at the Federal Teaching Hospital, Ido-Ekiti. It is located in Ido/Osi Local Government Area of Ekiti State, Nigeria. The hospital was established in 1998 by the Federal Government of Nigeria with various clinical and non-clinical departments. The department of medicine started in the year 2002, it currently has eight units headed by consultants in the respective fields namely; Cardiology, Endocrinology, Gastroenterology, Nephrology, Pulmonology, Neurology, and Dermatology. Services offered include Emergency medical services, specialist clinics, care of specialized medical patients, Hemodialysis, cardiovascular investigations, and procedures among others.

Target population; The target population for this study comprises of all hypertensive patients attending the outpatient department of Federal Teaching Hospital Ido-Ekiti.

Sample size: The sample size was determined using the Taro Yamane (1967) formula. A sample size of $n = 92$ patients was estimated from the total population of hypertensive patients attending clinics at the cardiology clinic of FETHI.

Inclusion criteria; Male and female adult patients attending the out-patient department that have been diagnosed with hypertension from age 18 years and above.

Exclusion criteria; Under 18 years and non-consenting adults were excluded from the study.

Sampling technique; The participants who met the inclusion criteria were selected from the list of registered patients using a consecutive sampling technique.

Instrument for data collection; This study utilized a semi-structured questionnaire adapted from (Mbulo, 2015 & Blouws, 2012). The questionnaire comprised of questions that assessed the use of herbal medicine, the types of herbal medicine products used, the perceived effectiveness of herbal medicine and so on among hypertensive patients at FETHI.

Validity of instrument; This study ensured the use of external and content validity (Elkins, 2018). The researchers and two other experts in the field of study closely examined the items in the questionnaire to ensure that they could accurately measure the intended variables.

Reliability of instrument; The test-retest method was used to assess the reliability of the questionnaire. Internal consistency of items showed an intra-class correlation coefficient of 0.75.

Method of data collection; Hypertensive patients attending the outpatient department were approached by the researchers on cardiology clinic day which is every Thursday. The patients were informed on what the questionnaire entails and were informed of their right to refuse to participate in the research. Questionnaires were shared among participants that met the inclusion criteria. Data was collected for a period of four weeks.

Method of data analysis; The data collected were first checked for errors, cleaned, and analyzed using the Statistical Package for Social Sciences (SPSS), version 25. Frequencies and percentages were calculated for demographic characteristics and responses of study participants. The Chi-square test of independence was used to determine the statistical significance between different variables of the study. The level of significance was set to $P < 0.05$.

Ethical consideration; An approval to conduct the study was given by the Research and Ethics Committee of Afe Babalola University. Also, ethical approval to conduct the study in the study setting was obtained from the Research and Ethics

Committee of the Federal teaching hospital Ido-Ekiti. Participants' rights to full disclosure and self-determination were explained. The respondents were informed about the purpose and benefits of the study and assured that their participation will not be used against them in any way. This study did not involve introducing any substance into the participants' bodies. Participants were assured of the right to withdraw from the study without any form of consequence if they felt uncomfortable going on with the research. Names or other forms of identification were not required on the questionnaire; only codes were used as participants' identity to maintain the confidentiality of the participants.

RESULTS

A total of 92 students participated in the study at a response rate of 100%. However, six questionnaires

were withdrawn as a result of response deficiency bringing the number of participants to 86.

As shown in Table 1, the respondents' ages ranged from 26 to over 56 years. Majority 41(47.7%) of them belonged to a common age group of 56 years and above while a few of them 7(8.1%) were between 26-35 years old. Most 56(65.9%) of the respondents were males while 34.1% were females giving a male to female ratio of 1.9:1. The participants comprised largely of persons who were married 66(76.7%) and were Christians 59(68.6%). A higher percentage of the respondents had tertiary education 42(48.8%), while very few 2(2.3%) had no formal education. More than half of the study population 47(54.7%) were full-time workers while 3(3.5%) were unemployed.

Table 1. Socio-demographic Characteristics of Respondents

Variables		Frequency	Percent
Age	26-35	7	8.1
	36-45	10	11.6
	46-55	28	32.6
	56 and above	41	47.7
	Total	86	100.0
Sex	Male	56	65.9
	Female	29	34.1
	Total	86	100.0
Marital Status	Married	66	76.7
	Single	5	5.8
	Widowed	3	3.5
	Divorced	5	3
	Separated	7	5.8
	Total	86	100.0
Religion	Christianity	59	68.9
	Islam	19	22.1
	Traditional	8	9.3
	Total	86	100.0
Highest Education	Primary	9	10.5
	Secondary	33	38.4
	Tertiary	42	48.8
	None	2	2.3
	Total	86	100.0
Employment Status	Full-time	47	54.7
	Part-time	7	8.1
	Self-employed	17	19.8
	Unemployed	3	3.5
	Retired	12	14
	Total	86	100.0

Table 2 describes the utilization of herbal medicine among respondents. 37(43%) of the respondents were currently taking herbal drugs for hypertension while 42(48.8%) of the respondents knew people who took herbal medicine for hypertension. Majority 80(93%) of the respondents had been on herbal drugs for about two years or three years. Most of the respondents had their herbal medicine prescribed by family members 81(94.1%) and friends 80(93%) Furthermore, 70(81.3%) of the respondents sought people's opinions about herbal

medicine before taking it. 73(84.9%) of the respondents took liquid herbs of 1-3 teaspoonful daily. 63(83.3%) of the participants who used herbal medicine did not use it for any other disease condition apart from hypertension. Interestingly, majority 69(80.2%) of the respondents claimed they did not experience any side effects due to herbal medication.

This study indicated that the level of utilization of herbal medicine among respondents is high (62.3%)

Table 2. Level Utilization of Herbal Medicine among Respondents

Utilization of Herbal Medicine	Agreed	Disagreed	Undecided
1. I currently take herbal drug for hypertension	37(43%)	49(57%)	-
2 80% of patients use herbal medicine	42 (48.8%)	44(61.2%)	-
SUB TOTAL	45.9	59.1	
3 Duration of taking herbal medicine			
7 months	60(69.7%)	19(22.1%)	7(8.1%)
2 years	80(93%)	2(2.3%)	4(4.6%)
3 years	80(93%)	5 (5.8%)	1(1.2%)
Over 3 years	37(43%)	49(57%)	14(16%)
SUB TOTAL	74.7	21.8	7.5
4 Herbal medicine was prescribed by; -			
Medical Doctor	70(81.3%)	12(14%)	4(4.6)
Traditional Doctor	74(86%)	7(8.1%)	5(5.8%)
Chemist	60(69.7%)	18(20.9%)	8(9.3)
Friends	80(93%)	0(0%)	6(7%)
Family members	81(94.1%)	0(0%)	5(5.8%)
SUB TOTAL	84.8%	8.6%	6.5%
5 Form and quantity of herbal medicine used daily			
1-3 tablespoon/day	73(84.9%)	13(15.1%)	-
4-6 tablespoon/day	62 (72.1%)	24(37.9%)	-
7-10 tablespoon/day	42(48.8%)	44(61.2%)	-
1 glass cup per day	37(43%)	49(57%)	
Solid	60(69.8%)	20(23.3%)	6(6.9)
SUB TOTAL	63.7%	38.9%	6.9%
Sought anyone's opinion about herbal medicines before taking it	70(81.3%)	11(12.7%)	5(5.8%)
Experienced any side effect due to herbal medication	17 (19.8%)	42(48.8%)	27(31.4%)
Taking herbal medicine for other disease condition apart from hypertension	23 (26.7%)	44(61.2%)	19(22.1%)
SUB TOTAL	42.6%	40.9%	19.8%
TOTAL	62.3%	33.9%	8.1%

Table 3 showed that 18(20.9%) of respondents used ginger/garlic, 8(9.3%) used moringa, 8(9.3%) used aloe vera, 7(8.1%) used onion, 11(12.7%) used cocoa powder, 15(17.4%) used snail water, 15(17.4%) use Agbo (concoction) and 4(4.7%)

used Pax Herbal drugs. This result indicated that majority of the respondents used ginger/garlic 18(20.9%), cocoa powder 15 (17.4%) and Agbo (concoction) 15(17.4%)

Table 3. Types of Herbal Medicine used by Respondents

	Type	Frequency	Percent
What herbal medicine are you taking	Ginger/garlic	18	20.9
	Moringa	8	9.3
	Aloe Vera	8	9.3
	Onion	7	8.1
	Cocoa powder	15	17.4
	Snail water	11	12.7
	Agbo(concoction)	15	17.4
	Pax Herbal drug	4	4.7
	Total	86	100.0

Fig 1 indicated the reasons influencing the use of Herbal Drugs

As displayed in figure 1, majority 35(40.5%) of the respondents utilized herbal medicine because they were disappointed that conventional medicine was not working. While 23(27%) respondents said that it allows them to relax and sleep, a quarter 22(25%)

of them said that it relieved the symptoms of conventional medicine being received and also improves health. 13(15%) felt that it improves their physical well-being. None 0(0%) of the respondents believed that conventional medicine was not too toxic and that the use of herbal medicine is in keeping with their beliefs and their inner selves.

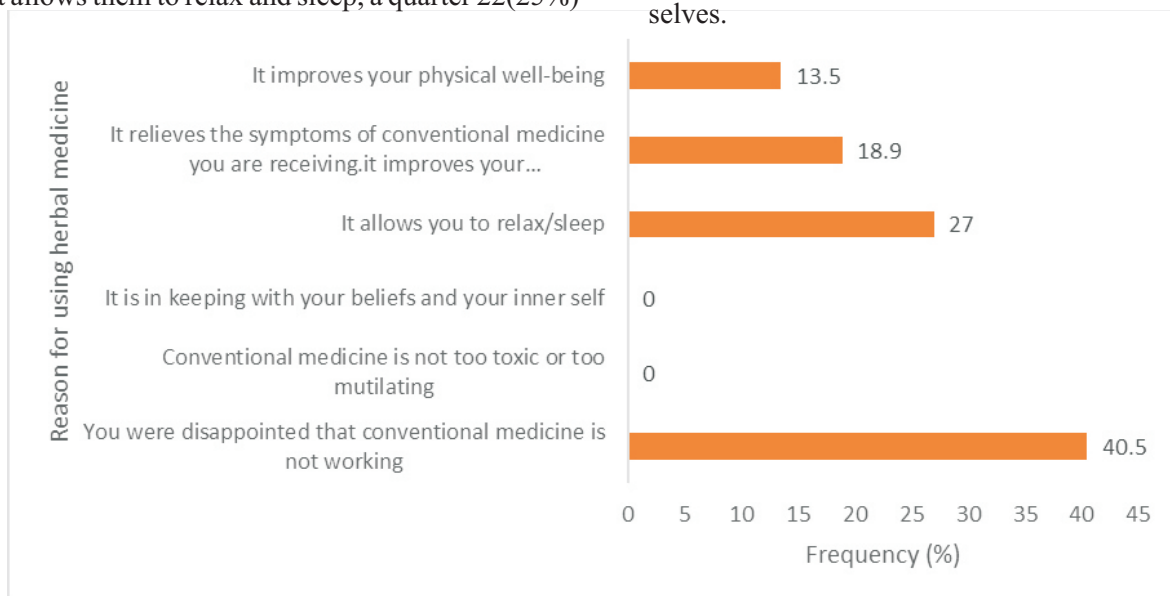


Figure 1: Reasons for using Herbal Medicine by Respondents

Table 4 showed participants' perceived effectiveness of herbal medicine on blood pressure control. This was assessed using a four-point Likert scale-based statements ranging from “not effective” to “very effective”. “Effective” and “very effective” were pooled together to form one positive response of “effective”. This study reported that 9(10.5%) of the study population claimed that ginger was not effective, 20(23.3%) claimed little effect (16.3%) claimed that it is effective 43(50%) claimed that it is effective and 20(23.3) claimed that it is very effective. This study also showed that 17(19.8%) of respondents admitted that Aloe Vera was also not effective while

19(22.1%) claimed little effect, 20(23.3%) claimed that it is effective and 30 (34.9%) claimed very effective. 6 (7%) of the respondents claimed that cocoa powder is not effective, while 38(44.2%) of respondents claimed that it has little effect, 29(33.7%) claimed that it is effective and 13(15.1%) claimed that it is very effective. Lastly, this study showed that 25(29.1%) of respondents that other herbal products are not effective while 32(37.2%) claimed little effect 10(11.6%) claimed effectiveness and 19(22.1%) of respondents claimed very effective. This result showed that the perceived effectiveness of herbal medicine in the treatment of hypertension is positive.

Table 4. Perceived Effectiveness of Herbal Medicine in the Treatment of Hypertension

	Not Effective	Little effective n (%)	Effective n (%)	Very effective n (%)	Total
Ginger	9(10.5)	14(16.3)	43(50)	20(23.3)	86(100.0)
Aloe Vera	17(19.8)	19(22.1)	30(34.9)	20(23.3)	86(100.0)
Cocoa Powder	6(7)	38(44.2)	29(33.7)	13(15.1)	86(100.0)
Herbal products	25(29.1)	32(37.2)	10(11.6)	19(22.1)	86(100.0)
	17%	30%	33%	21%	

DISCUSSION OF FINDINGS

This study assessed the use of herbal medicine and its perceived effectiveness among hypertensive patients attending the outpatient department (the cardio clinic) of the Federal Teaching Hospital Ido-Ekiti, Ekiti State, Nigeria. The socio-demographic characteristics of this study revealed that majority of the respondents belonged to a common age group of 56 years and above. This finding is in congruence with Anthony *et al.* (2017) who reported that majority of their respondents were between ages 45-67 years. Most of the respondents were males. This study is not consistent with Aimee *et al.*, (2017) where majority of the hypertensive patients were females. Majority of the study participants were married, full-time workers and had tertiary education.

The study showed that the level of utilization of herbal medicine for hypertension among the

participants is high. This study is similar to the study of Osamor & Owunmi (2010) that acknowledged a greater use of herbal medicine in a Nigerian community. This study is also consistent with the study of Nuwaha & Musinguzi (2014) who observed that 50% of their respondents used alternative medicine in Uganda. Similarly, this study is in agreement with the findings upheld by Liwa *et al.* (2014) in India and Morocco where majority of the respondents had been on herbal drugs for two years and Ohemu *et al.* (2017) where majority of the participants had been using herbal medicine for over a year.

This study indicated that majority of the respondents used ginger/garlic, cocoa powder and Agbo (concoction). This result is similar with a previous study conducted by Stephen and George (2017) where garlic and some other herbs were highly tolerated and acceptable by majority of the

respondents. This finding was not upheld by Olisa and Oyelola (2009) that reported that other types of herbal medicine used by respondents were Aloe vera, tea, lime juice and corn pap. This study differs from Hughes *et al.* (2015) reported in their study that 83.9% of hypertensive patients take herbal medicine in form of tea.

This study revealed that the reason for herbal medicine use is because respondents were disappointed that conventional medicine was not effective and they feel relaxed with the use of herbal medicine. This is in line with a study conducted by Erku and Mekuria (2016) where 67.5% of respondents utilize herbal medicine because they feel comfortable with it. Similarly, the findings of Shafiq *et al.* (2003) also reported that 59.0% of hypertensive patients prefer herbal medicine because of fear of adverse drug reactions of conventional medicine.

The findings of this study revealed that perceived effectiveness of herbal medicine in the treatment of hypertension is positive. These findings corroborate that of Nuwaha & Musinguzi, (2014), Ohemu *et al.*, (2017), James, Wardle, Steel & Adams, (2018) where majority of the participants claimed that herbal medicine is effective and safe for the treatment of hypertension. This is also in line with a previous study conducted by Olisa and Oyelola (2009) in a Nigerian hospital where more than one-third of the hypertensive patients claimed that herbal medicines were more effective than conventional medicine.

CONCLUSION AND RECOMMENDATIONS

This study revealed that the study participants' level of utilization of herbal medicine for hypertension is high (62%). Majority of the respondents used ginger/garlic 18(20.9%), cocoa powder 15(17.4%) and Agbo (concoction) 15(17.4%) Topmost amongst the reasons cited for herbal medicine use was disappointment in the effectiveness of conventional medicine. About two-thirds 57(66.3%) of the participants perceived herbal products to be significantly effective in controlling hypertension.

These findings further underscore the growing popularity and acceptance of herbal medicine, especially in low-income countries. Hence, adequate sensitization of the extent of use, benefit and safety of herbal medicine among hypertensive

patients should be properly addressed by healthcare providers. Also, a patient-centered approach should be adopted by healthcare providers to address patients' concerns, views and health beliefs about their illnesses as this will lead to better health outcome. With the increase in the utilization of herbal medicine in modern health care, medical, nursing and public health education should include adequate information about its practices.

REFERENCES

- Ahmed S. M. (2016) Assessment of knowledge, self-care practices and associated factors towards hypertension among hypertensive patients in public hospital Addis Ababa University Ethiopia.
- Aimée, N. R., Van Wijk, A. J., Maltz, M., Varjão, M. M., Mestrinho, H. D., & Carvalho, J. C. (2017). Dental caries, fluorosis, oral health determinants, and quality of life in adolescents. *Clinical oral investigations*, 21(5), 1811-1820.
- Amira, O. C., & Okubadejo, N. U. (2007). Frequency of complementary and alternative medicine utilization in hypertensive patients attending an urban tertiary care centre in Nigeria. *BMC complementary and alternative medicine*, 7(1), 1-5.
- Azizah, N., Halimah, E., Puspitasari, I. M., & Hasanah, A. N. (2021). Simultaneous Use of Herbal Medicines and Antihypertensive Drugs Among Hypertensive Patients in the Community: A Review. *Journal of Multidisciplinary Healthcare*, 14, 259.
- Djuv, A., Nilsen, O. G., & Steinsbekk, A. (2013). The co-use of conventional drugs and herbs among patients in Norwegian general practice: a cross-sectional study. *BMC complementary and alternative medicine*, 13(1), 1-11.
- Elkins, B. (2018). Research Methods and Applications for Student Affairs by J. Patrick Biddix (eds). *Journal of College Student Development*, 59(4), 505-506.
- Erku D. A & Mekuria A.B. (2016). Prevalence and correlates of complementary and alternative Medicine use among hypertensive patients in Gondar Town,

- Etiopia *Evidence-Based Complement Altern Med* vol 2016
<https://doi.org/10.1155/2016/6987636>
- Firenzuoli, F., & Gori, L. (2007). Herbal medicine today: clinical and research issues. Evidence-based complementary and alternative medicine, 4(S1), 37-40.
- Hughes G.D, Aboyade O.M, Beauclair R., Mbbamalu O.N., & Puoane T.R. (2015). Characterizing herbal medicine use for noncommunicable diseases in Urban South Africa. *Evidence-Based Complement Altern Med* 2015:1-10 doi:10.1155/2015/736074
- Ibrahim, I. R., Hassali, M. A., Saleem, F., Al Tukmagi, H. F., & Dawood, O. T. (2018). Use of complementary and alternative medicines: a cross-sectional study among hypertensive patients in Iraq. *Journal of Pharmaceutical Health Services Research*, 9(1), 59-65.
- James, P. B., Wardle, J., Steel, A., & Adams, J. (2018). Traditional, complementary and alternative medicine use in Sub-Saharan Africa: a systematic review. *BMJ global health*, 3(5).
- Joseph N., Chiranjeevi M., Sen, S., Singh P., Saini M. & Beg S. (2016). Awareness on hypertension and its self-management practices among hypertensive patients attending outreach clinics of a medical college in south India. *Kathmandu University Medical Journal*, 14(55), 202-209.
- Keasley, J., Oyeboode, O., Shantikumar S., Proto W., McGranhan M., Sabouni A. & Kidy F. (2020) A systematic review of the burden of hypertension, access to services and patient views of hypertension in humanitarian crisis settings. *BMJ Global Health*. 5(11).
- Liwa, A. C., Smart, L. R., Frumkin, A., Epstein, H. A. B., Fitzgerald, D. W., & Peck, R. N. (2014). Traditional herbal medicine use among hypertensive patients in sub-Saharan Africa: a systematic review. *Current hypertension reports*, 16(6), 437.
- LoBiondo-Wood G. & Haber J. (2017) *Reliability and Validity: Methods and Critical Appraisal for Evidence-Based Practice*, 262.
- Lulebo, A. M., Mapatano, M. A., Mutombo, P. B., Mafuta, E. M., Samba, G., & Coppieters, Y. (2017). Prevalence and determinants of use of complementary and alternative medicine by hypertensive patients attending primary health care facilities in Kinshasa, Democratic Republic of the Congo: a cross-sectional study. *BMC complementary and alternative medicine*, 17(1), 1-9.
- Nugroho, A. P., Hidayat, A., & Kusuma, H. (2017). The influence of religiosity and self-efficacy on the saving behavior of the slamic banks. *Banks and Bank Systems*, 12(3), 35-47.
- Nuwaha, F., & Musinguzi, G. (2013). Use of alternative medicine for hypertension in Buikwe and Mukono districts of Uganda: a cross sectional study. *BMC complementary and alternative medicine*, 13(1), 1-6. <https://doi.org/10.1186/1472-6882-13-301>
- Ohemu, T., Seriem, C., Dafem, D., Ohemu, B., & Okwori, V. (2017). Knowledge, Attitude and Practice of Traditional Medicine Among people of Jos North Local Government Area of Plateau State, Nigeria. *International Journal of Pharmacognosy and Phytochemical Research*, 9(10), 1353-1358.
- Olisa N.S & Oyelola F.T (2009). Evaluation of use of herbal medicines among ambulatory hypertensive patients attending a secondary health care facility in Nigeria. *Int j Pharm Pract*. 17(2): 101-105 doi:10.1211/ijpp/17.02.0005
- Omotoye, F.E & Sanusi R.A (2018). Management of hypertension using dietary approach to stop hypertension (DASH) among adults in Ekiti State, Nigeria. *Nigerian Journal of Nutritional Sceinces*. Vol.37 No. 1 (2016) ISSN: 0189-0913.

- Osamor, P. E., & Owumi, B. E. (2010). Complementary and alternative medicine in the management of hypertension in an urban Nigerian community. *BMC complementary and alternative medicine*, 10(1), 1-9.
- Ozioma, E. O. J., & Chinwe, O. A. N. (2019). Herbal medicines in African traditional medicine. *Herbal Medicine*, 10, 191-214.
- Park, Y. L., & Canaway, R. (2019). Integrating traditional and complementary medicine with national healthcare systems for universal health coverage in Asia and the Western Pacific. *Health Systems & Reform*, 5(1), 24-31.
- Shafiq N., Gupta M., Kumari S. & Pandhi P. (2003). Prevalence and pattern of use of complementary and alternative medicine (CAM) in hypertensive patients of a tertiary care center in India. *International Journal of clinical pharmacology and therapeutics* 41(7), 294-298
- Singh, S., Shankar, R., & Singh, G. P. (2017). Prevalence and associated risk factors of hypertension: a cross-sectional study in urban Varanasi. *International journal of hypertension*, 2017.
- Stephen G. C & George S. C (2017). Herbs used for the treatment of Hypertension and their mechanism of action.
- Yamane, T. (1967). *Problems to accompany" Statistics, an introductory analysis"*. Harper & Row.
- World Health Organization, (2021). Hypertension: Overview.
- Liwa, A., Roediger, R., Jaka, H., Bougaila, A., Smart, L., Langwick, S., & Peck, R. (2017). Herbal and alternative medicine use in Tanzanian adults admitted with hypertension-related diseases: a mixed-methods study. *International journal of hypertension*, <https://doi.org/10.1155/2017/5692572>

