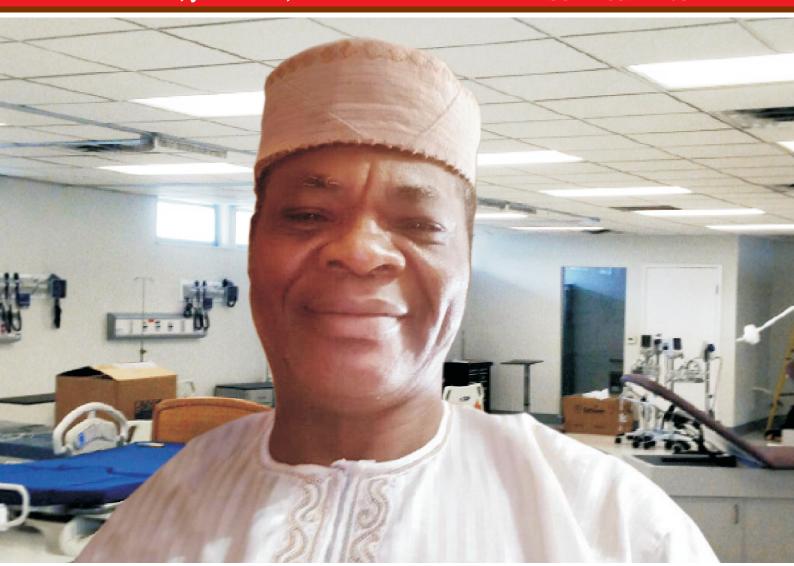


LAUTECH JOURNAL OF NURSING

VOL. 10, JANUARY, 2022

ISSN 2659-1405



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

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

10TH EDITION LAUTECH JOURNAL OF NURSING

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

VOLUME 10, JANUARY, 2022

ISSN 2659-1405

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: lautechjournalof nursing@gmail.com Website: www.lautechjournalof nursing.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

DrAde 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 peered 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, Ogbomoso 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,

Ogbomoso, Oyo State, Nigeria. Phone No: 08037287328.

Email: adetunmiseolajide@gmail.com

ADERONKE JULIENNAADETUNJI 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

AGATHAOGUNKORODE 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

CHIKAC. 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 ESANDepartment 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

deliverancebrotobor@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

idrizdabai@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, ZULAIHA BALA. 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

Oyinlolaogunleye12@gmail.com

OGWA, E. T. 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,

OLADAPO T. 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 VICTORIAMIDE-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 ENIOLAADEGBILERO-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.

FIIOIIC NO. 08002304948.

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 ADADepartment 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

UMAR N. J. Department of Nursing Sciences,

Faculty of Clinical Sciences, College of Health Sciences,

University of Ilorin Phone No: 08065482425 Emailumaribna@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 Hypertensic Oluwaseyi Abiodun Akpor; Tolulope Funmilola Ojo; Risikat Idowu Fadare; Oluwafunmilayo Esther Fadare; & Oluwaseun Eniola Adegbilero-Iwari | on 103 |

| Assessment of Modern Contraceptives Uptake Among Women of Reproductive Age Olubiyi Simeon Kayode [†] Adeyemo F. O.; Umar N. J.; Olawuyi Victoria Fehintola; Olubiyi M. Vincent; Olubunmi Oluwakemi Yejide & Irodi C. Canis | 113 |
|--|---|
| Community Health Extension Workers and Traditional Birth Attendants' Neonatal Resuscitation Practices of Babies Born With Asphyxia Deborah Tolulope Esan, Agatha Ogunkorode & Eseoghene Ogburu | 122 |
| Midwives' Current Screening Practice of Intimate Partner Violence Among Pregnant Women in Northern Nigeria Ayishetu U. Musa-Maliki & Sinegugu E. Duma | 132 |
| Nurses Perception of Cancer Patient Quality of Life Bolaji-osagie, Sarah O.; Oko-ose, Josephine & Isibor Ewere Anita | 141 |
| 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 |
| 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 |
| | Olubiyi Simeon Kayode' Adeyemo F. O.; Umar N. J.; Olawuyi Victoria Fehintola; Olubiyi M. Vincent; Olubunmi Oluwakemi Yejide & Irodi C. Canis Community Health Extension Workers and Traditional Birth Attendants' Neonatal Resuscitation Practices of Babies Born With Asphyxia Deborah Tolulope Esan, Agatha Ogunkorode & Eseoghene Ogburu Midwives' Current Screening Practice of Intimate Partner Violence Among Pregnant Women in Northern Nigeria Ayishetu U. Musa-Maliki & Sinegugu E. Duma Nurses Perception of Cancer Patient Quality of Life Bolaji-osagie, Sarah O.; Oko-ose, Josephine & Isibor Ewere Anita 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 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; |

ASSESSMENT OF KNOWLEDGE AND COMPLIANCE WITH CORONAVIRUS PROTOCOLS AMONG HEALTHCARE PROFESSIONALS

DALHAT SANI KHALID; SALIHU ABDURRAHMAN KOMBO; IDRIS ABDULRASHID DABAI & YAHAYA HAMZA SANI

ABSTRACT

Coronavirus disease (COVID-19) is an infectious viral disease of the respiratory system, it is believed to be caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). This research was carried out to assess the knowledge and compliance to COVID-19 preventive measures and protocols among healthcare professionals in Ahmadu Bello University Teaching Hospital, Shika-Zaria. A cross-sectional descriptive study was used for the study. A sample size of sixty-three (63) was used for the study. Structured questionnaires were distributed among the respondents. The data were analyzed using a frequency table and a simple percentage. The result of this study indicated that the knowledge level of respondents about COVID-19 preventive measures and protocols was very high with a mean of percentage =76.9, the level of compliance was also very high with a mean of percentage =92.1, and lastly, the barrier to compliance to COVID-19 preventive measures and protocols was the inadequate provision of PPEs. The following recommendations were outlined; the hospital management should be encouraged to make more efforts on the provision of personal protective equipment for healthcare workers to decrease their risk and vulnerability, the hospital management should also be encouraged to make efforts to see that there is regular training and retraining of the healthcare professionals on COVID-19 preventive measures and protocols to sustain their knowledge and compliances.

Keywords: Assessment; Knowledge; Compliance; COVID-19; Protocols.

INTRODUCTION

Coronavirus disease (COVID-19) is an infectious viral disease of the respiratory system believed to be caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (Lewis, 2020). Presentations of COVID-19 have ranged from

asymptomatic/mild symptoms to severe illness and mortality. The most common symptoms are fever, cough, and shortness of breath (Chin et al., 2020). Other symptoms such as malaise and respiratory distress have also been unveiled (Morawska and Milton, 2020). Transmission is believed to occur via respiratory droplets from coughing and sneezing, as with other respiratory pathogens, including influenza and rhinovirus (Rabin., 2020). Viruses released in respiratory secretions can infect other indiviual with mucous membranes. Droplets usually cannot travel more than 6 feet. The virus can also survive on surfaces to varying durations and degrees of infectivity. One study (Spinato et al., 2020) found that SARS-CoV-2 remained detectable for up to 72 hours on some surfaces despite decreasing infectivity over time. Notably, the study reported that no viable SARS-CoV-2 was measured after 4 hours on copper or after 24 hours on cardboard (Spinatoet al., 2020).

The disease was first identified in 2019 in Wuhan, the capital of China's Hubei province, and has since spread globally, resulting in the on going 2019–20 coronavirus pandemic. The World Health Organization (WHO) declared the outbreak to be a Public Health Emergency of International Concern on 30 January 2020 and recognized it as a pandemic on 11 March 2020, its first such designation since declaring H1N1 influenza a pandemic in 2009. The illness was recently termed COVID-19 by the WHO, the new acronym derived from "coronavirus disease 2019" The name was chosen to avoid stigmatizing the virus's origins in terms of populations, geography, or animal associations (WHO 2020). On February 11 2020, the Coronavirus Study Group of the International Committee on Taxonomy of Viruses issued a statement announcing an official designation for the novel virus: severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (Gorbalenya, 2020).

In the United States, 4,715,540 cases of COVID-19 have been confirmed, as at August 3, 2020, resulting in 155,402 deaths (CDC, 2020). On the following ay, the United States declare that it has more confirmed infections than any other country in the world, including China and Italy (Ferguson et al., 2020). Current clusters of increased local transmission can be found throughout Western Europe, the United States, and Iran. The rate of newly reported infections in China has dropped precipitously.

COVID-19-related deaths in China have mostly involved older individuals (60 years) and persons with serious underlying health conditions. In the United States, attributable deaths have been most common in adults aged 85 years or older (10%-27%), followed by adults aged 65-84 years (3\%-11\%), adults aged 55-64 years (1%-3%), and adults aged 20-54 years (< 1%). As of March 16, 2020, no attributable fatalities have been reported in persons aged 19 years or younger (Li et al., 2020). On February 26, 2020, the first case of COVID-19, not associated with travellers from China or known contact with an infected traveller, was reported in California. Community spread of the virus has now been reported in multiple states (CDC, 2020). The Centers for Disease Control and Prevention (CDC) has stated that more cases of COVID-19 are likely to be confirmed in the United States in the near future. Also, they anticipate a widespread SARS-CoV-2 community spread and that most of the US population will be exposed to the virus in coming months, leading to a CDC recommendation against gatherings of 50 persons or more.

In Nigeria, the first case of COVID-19 was confirmed on 27th February 2020 from a 44 year old Italian who arrived at the Murtala Muhammad International Airport, Lagos at 10 pm on 24th February 2020 aboard a Turkish airline from Milan, Italy. He traveled on to his company site in Ogun state on 25th February. On 26th February, he went to the staff clinic in Ogun for a check up, and there was a high index of suspicion by the managing physician. He was referred to IDH Lagos and COVID-19 was confirmed on the 27th of February 2020, and from then till 17th of September 2020, a total of fifty-six thousand seven hundred and thirty-five (56,735) confirmed cases of COVID-19, 48,092 discharges, and 1093 fatalities have been reported (Nigeria Centre for Disease Control (NCDC), 2020).

Multi-sectoral national emergency operations centre (EOC) activated at level 3, continued to coordinate the national response activities. Patients with confirmed cases of COVID-19 infection are isolated at the various isolation centers in the

country and treated according to the standard treatment guidelines provided by World Health Organization and the Nigeria Centre for Disease Control (NCDC) by healthcare providers. The NCDC recommended regular hand washing, use of face mask, maintaining social distancing, use of alcohol hand sanitizer, avoid touching the eye, nose, and mouth with the hands, and covering the mouth while sneezing or coughing. Healthcare professionals spent lots of time with patients in the hospital and with the incidence of this pandemic, the workload tend to increase as patients with COVID-19 require more intense and rapid care. Healthcare professionals are at the front line of the COVID-19 outbreak response and as such are exposed to hazards that put them at very high risk of infection. Hazards include pathogen exposure, long working hours, psychological distress, fatigue, occupational burnou, stigma, and physical and psychological violence.

Several barriers were reported by healthcare professionals regarding the knowledge and compliance to COVID-19 protocols, these include inadequate knowledge of COVID-19, deviations from the recommended PPE donning and doffing protocols despite the WHO recommendations to prevent the transmission of COVID-19 (Birihane et al., 2020). A recent study by Birihane et al., (2020), showed that 90% of observed doffing was incorrect, common errors were doffing gown from the front, removing face shield of the mask, and touching potentially contaminated surfaces and PPE. On COVID-19 compliance, Feyisa, (2021) observed that adherence to the preventive measures of the disease is primarily affected by variables such as knowledge, attitudes, and perception.

Adequate knowledge and strict compliance to measures and protocols set aside by WHO will go a long way in protecting health care workers from contracting the virus and also improve their overall performance, in terms of patient care and work commitment. This justifies the need for the study to assess the level of knowledge and compliance to COVID-19 preventive measures and protocols among healthcare professionals in Ahmadu Bello University Teaching Hospital (ABUTH), Shika, Zaria, Nigeria.

Objectives of the study

1. To determine the level of knowledge of COVID -19 preventive measures and protocols among healthcare professionals in Ahmadu Bello University Teaching Hospital (ABUTH), Shika, Zaria, Nigeria.

- To assess the compliance level to COVID -19
 preventive measures and protocols among
 healthcare professionals in Ahmadu Bello
 University Teaching Hospital (ABUTH),
 Shika, Zaria, Nigeria.
- 3. To identify the barriers to compliance to COVID -19 preventive measures and protocols among healthcare professionals in Ahmadu Bello University Teaching Hospital (ABUTH), Shika, Zaria-Nigeria.

METHODOLOGY

Design: A quantitative design, using a cross-sectional descriptive approach was employed for the study. It entails the collection of data at a single point in time.

Setting: The setting is Ahmadu Bello University Teaching Hospital (ABUTH), Shika, Zaria-Nigeria. ABUTH, formerly known as the Institute of Health, established in 1968, in accordance with statutes 15 of the university law (amendment act schedule 16) by the former Northern Nigeria government to provide facilities for training of doctors, nurses and other medical personnel. ABUTH Zaria is presently being run by a board, established by decree No. 10 of 1985 and it comprises the chief executive (chief medical director) and the other statutory officers. The hospital offers a wide range of services including medical and surgical services, pharmaceutical services, laboratory services, training, programmes among others. ABUTH also serves as a referral hospital.

Population: All (1,250) the healthcare professionals (Nurses, doctors, pharmacists, and medical laboratory scientists) working in Ahmadu Bello University Teaching Hospital (ABUTH), Shika, Zaria-Nigeria.

Sample Size Determination: A total of 63 respondents were used for the study, representing 5% of the total population.

Sampling Technique: A simple random sampling technique was employed to select the 63 respondents from the total population.

Instrument: a structured questionnaire was used for data collection. The questionnaire comprised of four sections: sections A, B, C and D. Section A focused on the demographic data of the participants, Section B contained questions on knowledge of covid -19, Section C contained questions on level of

compliance and Section D focused on barriers to covid-19 protocol compliance.

Validity of the instruments: A structured questionnaire was designed, and the validity of the instruments was ascertained by presenting to experts who read through to improve, modify and correct the instrument.

Reliability of the instruments: Pre-testing of the questionnaire was also carried out and modifications based on the results were incorporated into the final questionnaire. The test-retest method was used to assess the reliability of the questionnaire. Internal consistency of items showed an intra-class correlation coefficient of 0.86

Data collection: Questionnaires were shared among participants that met the inclusion criteria. Adequate time was given to participants for the successful completion of the questionnaire.

Data analysis: Afterward, the data collected were first checked for errors, cleaned, and analysed using the Statistical Package for Social Sciences (IBM SPSS version 25. The data were presented descriptively using frequency distribution tables and percentages.

Ethical consideration: An approval to conduct the study was given to the Ethics Committee of Ahmadu Bello University and Amadu Bello Teaching Hospital Zaria. 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. Informed consent was obtained from the respondents before administering the questionnaire and they were assured of the confidentiality of the information given.

RESULTS

Table 1showed that most 19 (30%) of the respondents were within the age range of 25-29, only a few 5(7.9%) were within the ages of 40 years and above. Majority of the respondents 32(50.8%) were male and married 40 (63.5%). Majority of the respondents 26(41.3%) were nurses. Doctors represent 13(20.6%,) Pharmacists and Medical Laboratory Scientists represent 10(15.9%) and 14(22.2%) respectively.

Table 1: Sociodemographic data of the respondents

| Table 1: Sociodemographic data of the respondents | | | | | |
|---|--------------------|-----------------|--|--|--|
| Variables | No. of Respondents | Percentages (%) | | | |
| Age | | | | | |
| 20-24 | 14 | 22.2 | | | |
| 25-29 | 19 | 30.2 | | | |
| 30-34 | 16 | 25.4 | | | |
| 35-39 | 9 | 14.3 | | | |
| 40 and above | 5 | 7.9 | | | |
| Total | 63 | 100% | | | |
| Gender | | | | | |
| Male | 32 | 50.8 | | | |
| Female | 31 | 49.2 | | | |
| Total | 63 | 100% | | | |
| Marital Status | | | | | |
| Married | 40 | 63.5 | | | |
| Single | 23 | 36.5 | | | |
| Divorced | 0 | 0 | | | |
| Total | 63 | 100% | | | |
| Tribe | | | | | |
| Hausa | 17 | 27.0 | | | |
| Igbo | 12 | 19.0 | | | |
| Yoruba | 19 | 30.2 | | | |
| Others | 15 | 23.8 | | | |
| Total | 63 | 100% | | | |
| | | | | | |
| Religion | | | | | |
| Christianity | 35 | 56.6 | | | |
| Islam | 28 | 44.4 | | | |
| Others | 0 | 0 | | | |
| Total | 63 | 100% | | | |
| | | | | | |
| Profession | | | | | |
| Nurse | 26 | 41.3 | | | |
| Doctor | 13 | 20.6 | | | |
| Pharmacist | 10 | 15.9 | | | |
| Lab Scientist | 14 | 22.2 | | | |
| Total | 63 | 100% | | | |

Table 2 showed that majority of the respondents 59 (93.7%) believed that Covid-19 is a viral disease while 6.3% said that COVID-19 is not. A total of 93.7% knew that fever, cough, shortness of breath, and fatigue were the main clinical symptoms of COVID-19, while 6.3% of the respondents said otherwise. The majority of the respondents 61(96.8%) knew that symptoms of COVID-19 appear within 2-14 days, 82.5% of the respondents affirmed that COVID-19 spreads via respiratory droplets of infected individuals. Majority of the respondents 49(77.8%) agreed that COVID-19 currently had no vaccine. Some of the respondents 19 (19%) had the notion that carriers without symptoms cannot infect others, while majority of the respondents 51(81%) had the idea that carriers without symptoms can infect others.

Majority of the respondents 57(90.5%) affirmed that regular hand washing can prevent the spread of the virus, while the remaining 9.5% said the contrary. All the respondents 63(100%) affirmed that the use of face masks can prevent the inhalation of droplets. The majority of the respondents 59(93.7%) adhered to the use of hand gloves before touching or carrying out a procedure on the patients. Majority of the respondents 58(92.1%) opined that people who have contact with infected individuals should be isolated. This study concluded that the knowledge level of respondents about COVID -19 preventive measures and protocols is very high with a mean of percentage = 76.9.

Table 2: Knowledge Level of respondents about COVID -19

| | Table 2: Knowledge Level of respondents about COVID-19 | | | | | |
|----|---|-----|------|----|------|--|
| | ITEMS RESPONSE | | | | · | |
| | | YES | % | NO | % | |
| 1 | COVID-19 is a viral disease. | 59 | 93.7 | 4 | 6.3 | |
| 2 | The main clinical symptoms of COVID-19 are fever, cough, shortness of breath, and fatigue | 59 | 93.7 | 4 | 6.3 | |
| 3 | Symptoms of COVID-19 appear within 2-14 days. | 61 | 96.8 | 2 | 3.2 | |
| 4 | The COVID -19 virus spreads via re spiratory droplets of infected individuals through the air during sneezing or coughing by infected patients. | 52 | 82.5 | 11 | 17.5 | |
| 5 | Currently, COVID-19 has a vaccine. | 14 | 22.2 | 49 | 77.8 | |
| 6 | Persons with COVID -19 cannot infect others i f he/she has no symptoms of CO VID-19. | 12 | 19 | 51 | 81 | |
| 7 | Regular handwashing with soap or hand sanitizer can prevent the spread of the infection. | 57 | 90.5 | 6 | 9.5 | |
| 8 | The use of facemasks can prevent the inhalation of droplets. | 63 | 100 | - | - | |
| 9 | Hand gloves should be used whenever one wants to touch patients or carry a procedure on patients., | 59 | 93.7 | 4 | 6.3 | |
| 10 | People who have contact with someone infected with the COVID -19 virus should not be isolated. TOTAL | 5 | 7.9 | 58 | 92.1 | |
| 1 | Mean of nevertage = 76.0 | | | | | |

Mean of percentage = 76.9

Table 3 revealed that 92.1% of the respondents were of the opinion that to follow the recommended hand hygiene practices, while 7.9% do not practice the recommended hand hygiene. 92.1% of the respondents use an alcohol-based hand sanitizer or soap and water before touching a patient while only 7.9% said no. While 88.9% of the respondents believed that to use alcohol-based hand sanitizer or soap and water after touching the patient or his/her surroundings. Majority of the respondents

60(95.2%) believed that to use alcohol-based hand rub or soap and water after a clean or aseptic procedure. Also, majority of the respondents 59(93%) believed that to practice general infection control and standard precautions when in contact with patients. On the practice of wearing PPEs, 88.9% of the respondents answered yes, while 11.1% of the respondents said no. This study concluded that the level of compliance was very high with a mean of percentage = 92.1

Table 3: Compliance Level of the respondents to COVID -19 protocols

| | ITEMS | | RESP | ONSE | , |
|---|---|-----|------|------|------|
| | | YES | % | NO | % |
| 1 | Do you follow the recommended hand hygiene practices? | 58 | 92.1 | 5 | 7.9 |
| 2 | Do you use an alcohol -based hand rub o r soap and water before touching a patient? | 58 | 92.1 | 5 | 7.9 |
| 3 | Do you use an alcohol -based hand rub or soap and water cleaning or aseptic procedure? | 60 | 95.2 | 3 | 4.8 |
| 4 | Do you use an alcohol -based hand rub or soap and water after touching the patient or his/her surroundings? | 56 | 88.9 | 7 | 11.1 |
| 5 | Do you follow Infection Prevention Control (IPC) standard precautions when in contact with any patient? | 59 | 93.7 | 4 | 6.3 |
| 6 | Do you use an alcohol-based hand rub or soap and water after the risk of body fluid exposure | 59 | 93.7 | 4 | 6.3 |
| | Do you wear personal protective equipment (PPE) when indicated? (PPE includes face masks, gloves, face shields, etc.) TOTAL | 56 | 88.9 | 7 | 11.1 |

Mean of percentage = 92.1

Table 4 above showed that the majority 63(69.9%) is of the view that there is no adequate provision of PPEs, while 38.1% of the respondents believed otherwise. For the availability of hand washing facilities with clean running water and hygiene products, majority 63(69.8%) believed in the availability of hand washing facilities with clean running water, while 30.2% do not. Regarding sufficient supply for the collection of sharps and

medical wastes, 50.8% is positive, while 49.2% is ngative. Also, 73% of the respondents said there is no training on infection control practices by the institution, while 27% believed there is training on infection control practices. This study therefore submitted that the barrier to compliance to COVID -19 preventive measures and protocols is inadequate provision of PPEs

Table 4: Barriers to compliance to COVID -19 protocols

| Variables | | | Response | | |
|--|------------|-----|-------------|----|-------------|
| | | YES | Percentages | NO | Percentages |
| | | | (%) | | (%) |
| Adequate provision of PPEs. | | 24 | 38.1 | 63 | 69.9* |
| Availability of handwashing facilities v | with clean | 44 | 69.8 | 19 | 30.2 |
| running water and hygiene products. | | | | | |
| Sufficient supply for the collection of sharps and | | 32 | 50.8 | 31 | 49.2 |
| medical wastes. | | | | | |
| Training on infection control practic | es by the | 17 | 73 | 27 | 46 |
| institution. | | | | | |
| TOTAL | | | | | |

DISCUSSION OF FINDINGS

This study determines the level of knowledge and compliance to COVID -19 preventive measures and protocols in Ahmadu Bello University Teaching Hospital (ABUTH), Shika, Zaria, Nigeria. The socio-demographic data of the respondents showed that majority of the respondents are within the age range of 25-29 years and the respondents are both male and female. Findings also revealed that majority of the respondents are married, Yoruba by tribe and Christian by religion. The respondent are majorly Christian by religion and professionally are nursing, doctors and lab scientists.

Knowledge of COVID-19 Preventive measures and protocols

This study reveals that the knowledge level of respondents about COVID -19 is very high with a mean of percentage = 76.9. This study supports a study conducted by the Institute of Public Health, College of Medicine and Health Sciences, United Arab Emirates, Abu Dhabi in 2020, where 85.6% of participants are very knowledgeable about COVID-19. This study is also similar to the findings of Beigel et al., (2020), whose participants are knowledge able about COVID-19. This study is supported by McIntosh et al., (2019), whose participants are knowledge able about the causes and prevention of COVID-19.

Compliance of the health workers with COVID-19 preventive measures and protocols

This study shows that the level of compliance is very high with a mean of percentage = 92.1, which is in consistent with Lewis (2020) who showed that respondents' compliance level is high. This study does not corroborate Pan et al (2019) who reveal that the level of hospital staff compliance is low. This study also disagree with Erasmus et al (2010) who observe that there are multiple reports from different countries that has shown that adherence to the use of personal protective equipment reduces the rate of transmission of infection by 40%.

Barriers to Compliance with COVID-19 Preventive measures and protocols

This study indicates that the barriers to compliance to COVID -19 preventive measures and protocols are the inadequate provision of PPEs and a lack of training on infection control practices by the institution. This is in line with studies on the perceived barriers to the practice of preventive measures for the COVID-19 pandemic among health professionals conducted by Mersha et al., (2021) and Birihane et al., 2020) who describe the shortage of PPEs and inadequate training, and trained staffs are the most common barriers that influence the practice of preventive measures. However, regarding the supply of hand-washing facilities, the majority of the respondents with a frequency of 69.8% affirm that there are available handwashing facilities with clean running water in the current study. This is also in contrast with the same study by Mersha et al., (2021) and Birihane et al., 2020) where scarcity of hand cleaning solutions is found to be a barrier to the practice of preventive measures.

CONCLUSION AND RECOMMENDATIONS

The study assesses the level of knowledge and compliance with COVID-19 preventive and protocols among healthcare professionals in Ahmadu Bello University Teaching Hospital, Shika. A cross-sectional descriptive study is used for the study. The data generated are analyzed using statistical measures. Findings reveal that there are high level of knowledge and compliance with COVID-19 preventive measures and protocols among the healthcare professionals, while the institutional supply of PPEs and training on infection control practices is low.

From the findings of this study, most of the health workers have a good level of knowledge and compliance with COVID-19 preventive measures and protocols, however, provision of Personal Protective Equipment (PPE) and training on infection control practices by the hospital is low. Hospital Management should make more efforts on the provision of personal protective equipment for the healthcare professionals to reduce their risk and vulnerability. Also, Hospital Management should also make efforts to see that there are regular training and retraining of healthcare professionals on COVID-19 preventive measures and protocols to sustain their knowledge and compliances.

REFERENCES

- Bai X, Zhou Q, He Y, (2020). Nosocomial Outbreak of Novel Coronavirus Pneumonia in Wuhan, China. Eur Respir J
- Beigel JH, Tomashek KM, Dodd LE, Mehta AK, Zingman BS, Kalil AC, (2020). Remdesivir for the Treatment of Covid-19 - Preliminary Report (ACTT-1 Study). N Engl J Med.
- Birihane, B. M., Bayih, W. A., Alemu, A. Y., & Belay, D. M. (2020). Perceived Barriers and Preventive Measures of COVID-19 Among Healthcare Providers in Debretabor, North Central Ethiopia. Risk Management and Healthcare Policy, 13. https://doi.org/10.2147/RMHP.S287772
- CDC. Coronavirus Disease 2019 (COVID-19): COVID-19 Situation Summary. CDC. A v a i l a b l e a t https://www.cdc.gov/coronavirus/2019-ncov/summary.html. February 29, 2020; Accessed: March 2, 2020.
- CDC. Coronavirus Disease 2019 (COVID-19):
 Recommendations for Cloth Face Covers.
 Centers for Disease Control and
 Prevention. Available at
 https://www.cdc.gov/coronavirus/2019ncov/prevent-getting-sick/cloth-facecover.html. April 3, 2020; Accessed: April
 6, 2020.
- Chang Y, Luo R, Wang K, Zhang M, Wang Z, Dong L, Li J, Yao Y, Ge S, Xu G (2020). Kidney disease is associated with in-hospital death of patients with COVID-19. Kidney Int. 97(5):829-838.
- Chen N, Zhou M, Dong X, Qu J, Gong F, Han Y, Qiu Y, Wang J, Liu Y, Wei Y, Xia J, Yu T, Zhang X, Zhang L. (2020) Epidemiological and clinical characteristics of 99 cases of 2019 novel coronavirus pneumonia in Wuhan, China: a descriptive study. Lancet. Feb 15; 395(10223):507-51
- Chin AWH, Chu JTS, Perera MRA, et al. Stability of SARS-CoV-2 in different environmental conditions. The Lancet Microbe. April 2, 2020.
- Chin P, Hao X, Lau EHY, et al. Real-time tentative assessment of the epidemiological characteristics of novel coronavirus

- infections in Wuhan, China, as of 22 January 2020. Euro Surveillance. 2020; 25(3)
- Erasmus, V., Daha, T. J., Brug, H., Richardus, J. H., Behrendt, M. D., Vos, M. C., & van Beeck, E. F.(2010). A systematic review of studies on compliance with hand hygiene guidelines in hospital care'. Infection Control & Hospital Epidemiology, 31, 283–294. 10.1086/650451
- Feyisa, Z. T. (2021). Factors limiting youths' practice of preventive measures toward the outbreak of COVID-19 in Oromia special zone surrounding Finfinnee, Ethiopia. PLOS ONE, 16(3).
- Gorbalenya AE. (2020) Severe acute respiratory syndrome-related coronavirus—The species and its viruses, a statement of the Coronavirus Study Group. Available at https://doi.org/10.1101/2020.02.07.937862
- Huang C, Wang Y, Li X, Ren L, Zhao J, Hu Y, Zhang L, Fan G, Xu J, Gu X, Cheng Z, Yu T, Xia J, Wei Y, Wu W, Xie X, Yin W, Li H, Liu M, Xiao Y, Gao H, Guo L, Xie J, Wang G, Jiang R, Gao Z, Jin Q, Wang J, Cao B. (2020) Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China. Lancet. 395(10223):497-506.
- Huang, C. (2020). Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China. Lancet 395, 497–506.
- Lewis D. Is the coronavirus airborne? Experts can't agree. Nature 2020; 580: 175. doi:10.1038/d41586-020-00974-w
- Li Q, Guan X, Wu P, Wang X, Zhou L, Tong Y, Ren R, Leung KSM, Lau EHY, Wong JY, Xing X, Xiang N, Wu Y, Li C, Chen Q, Li D, Liu T, Zhao J, Liu M, Tu W, Chen C, Jin L, Yang R, Wang Q, Zhou S, Wang R, Liu H, Luo Y, Liu Y, Shao G, Li H, Tao Z, Yang Y, Deng Z, Liu B, Ma Z, Zhang Y, Shi G, Lam TTY, Wu JT, Gao GF, Cowling BJ, Yang B, Leung GM, Feng Z (2020). Early Transmission Dynamics in Wuhan, China, of Novel Coronavirus-Infected Pneumonia. N Engl J Med.; 382(13):1199-120
- Mersha, A., Shibiru, S., Girma, M., Ayele, G., Bante, A., Kassa, M., Abebe, S., & Shewangizaw, M. (2021). Perceived barriers to the practice of preventive

- measures for COVID-19 pandemic among health professionals in public health facilities of the Gamo zone, southern Ethiopia: a phenomenological study. BMC Public Health, 21(1).
- McIntosh K, Hirsch MS Bloom A. Coronavirus disease 2019 (COVID-19). UpToDate Hirsch MS, Bloom A (Eds) Accessed Mar. 2020; 5
- Morawska L, Milton DK. (2020) It is Time to Address Airborne Transmission of COVID-19. Clinical Infectious Diseases.
- Nwana OC (1995). Introduction to educational research for student teachers. Ibadan: Heinemann Educational Books Ltd.
- Pan F, Ye T, Sun P, Gui S, Liang B, Li L, et al. (2020)
 Time course of lung changes on chest CT
 during recovery from 2019 novel
 coronavirus (COVID-19) pneumonia.
 Radiology.:200370
- Rabin RC. (2020) Lost Sense of Smell May Be Peculiar Clue to Coronavirus Infection. The New York Times. Available at

- https://www.nytimes.com/2020/03/22/he alth/coronavirus-symptoms-smell-taste.html. Accessed: March 24, 2020.
- Spinato G, Fabbris C, Polesel J, Cazzador D, Borsetto D, Hopkins C, (2020). Alterations in Smell or Taste in Mildly Symptomatic Outpatients With SARS-CoV-2 Infection. JAMA.
- Saqlain M, Munir M.M, Rehman S.U, Gulzar A, Naz S, Ahmed Z, Tahir A.H, and. Mashhood M (2020). Knowledge, attitude, practice and perceived barriers among healthcare professionals regarding COVID-19: A Cross-sectional survey from Pakistan. medRxiv. doi: 10.1101/2020.04.13.20063198
- Zhang M, Zhou M, Tang F, Wang Y, Nie H, Zhang L, and Youc G (2020). Knowledge, attitude and practice regarding COVID-19 among health care workers in Henan, China. Journal of Hospital Infection. doi: 10.1016/j.jhin.2020.04.012

