



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

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

ABSTRACT

Maternal mortality remained prevalent in developing countries despite adopted measures to reduce its occurrence. The WHO (2015) recorded a maternal mortality ratio of 239 per 100,000 live births in developing countries as against 12 per 100,000 live births in developed countries. Studies attributed this anomaly to inadequate First-Aid knowledge and skills of Traditional Birth Attendant (TBAs) in managing obstetrics complications. This study determines the effectiveness of a training program on knowledge of first-aid management and skills of on TBAs labor emergencies in selecte areas. One group pre-post experimental design was used and the sample size was calculated using Cochran formula to select 111 TBAs. These were randomly selected out of 150 total numbers. Test paper on knowledge on first-aid management (TP-KFM) and self-developed rating scale (SRS) on selected labor emergencies was used to collect data on the cognitive and psychomotor domains. Data collected were analyzed using tables, percentages, means, and standard deviation while inferential statistics of paired t-test. Pre-intervention means score of TBAs knowledge was 6.86 ± 2.47 while post means score of 17.66 ± 2.37 (mean gain 10.8). Pre-intervention means score of TBAs on first-aid management skills was 4.92 ± 1.93 while post-intervention means score of 11.46 ± 1.36 . There were significant differences between pre-post intervention knowledge of first aid management ($t=46.91, p = 0.00$), and first-aid management skills ($t=39.571, p = 000$), of TBAs at 0.05 level of significant. The findings show that the application of a training program on knowledge of first-aid management and skills of on TBAs selected labor emergencies was effective. Hence, TBAs should be given regular training together with prompt supervision should be done by stakeholders for the TBAs.

Keywords: Maternal Mortality; Labour Emergencies; FirstAid Management.

INTRODUCTION

Maternal mortality is noted to be prevalent in certain parts of developing countries despite the various measures adopted to reduce its occurrence globally. The adaptation of these measures started right from the era of Safe Motherhood to Millennium Development Goals 4 and 5, and now Sustainable Development Goals (SDGs) (WHO, 2015). Despite the introduction of all these measures which are adopted solely to work towards the reduction of maternal mortality rate, maternal mortality is still high (World Health Organisation, 2015) Maternal mortality is defined in this stuy, as the death of a woman while pregnant or within 42 days of termination of pregnancy irrespective of the duration of the pregnancy from any cause aggravated by the pregnancy or its management but not from accidental or incidental causes (World Health Organization, 2015, Adesokan, 2014).

Different factors are attribute to be responsible for the increase in maternal mortality, ranging from direct and indirect causes, and some other underlying factors such as disparities between the rich and poor women, rural and urban residents (World Health Organization, 2015), including poor maternal and child health statistics in Nigeria. Likewise, inaccessibility and poor utilization of quality health care services, low literacy level, distance to the location of health care services, and in particular, the use of TBAs by pregnant women (Ayede, 2012) have all been registered as other significant factors responsible for the increase in maternal and child mortality rates. This is because pregnant women patronize traditional birth attendants (TBAs) despite various facts and studies that stated or documented lack of adequate or scientific knowledge by TBAs in giving quality care appropriately to pregnant women coupled with lack of use of the aseptic technique in handling pregnant women.

Invariably, the failure of referring serious or complicated cases by the TBAs to appropriate quarters has also contributed to the high rate of maternal mortality (Imogie, Agwubike, & Aluko, 2002). Owens (2011) further states that TBAs lack adequate skills in handling obstetrics emergencies, there is a lack of prompt access to obstetrics emergencies by pregnant mothers and 15% of women are prone to have obstetrics emergencies during labor. This aspect is not given the utmost attention in the quest to drastically reduce maternal and infant mortality rates (Gbadamosi, 2015). A traditional birth attendant "is a person who assists the mother during childbirth and initially acquired her skills by delivering babies herself or through apprenticeship to other traditional birth attendants" (World Health Organisation/UNICEF /United Nations Population Fund, 1992). They are mostly women and have a low level of formal education (Shamsu-deen, 2013).

Sarker (2016) asserts that most pregnant women prefer to deliver at home, and the common reason for this is poverty. Equally, other reasons for the preference of TBAs by pregnant women include accessibility, services seen as user-friendly, high cost of hospital bill as the cost of TBAs services is considered cheaper, low educational status, poor road network, lack of qualified health professionals at health facilities. Likewise, expectant mothers prefer TBAs services because they believe that they can give spiritual care and the psychological support needed, the flexibility of services and payment to TBAs, escape from the anxiety of ending up with caesarian section, cultural and religious beliefs among other reasons (Mfremfon & Anucha, 2015; Ogunyomi & Ndikom, 2016; Oshonwoh, Nwakuwo & Ekiyor, 2014; Sarker, 2016).

Most pregnant women attend antenatal clinics for care while few deliver at the health facilities. Many pregnant women patronize the TBAs and only visit the clinic for immunization or when there are complications. Imogie (2011) confirms that 49% out of 93% of women that registered for prenatal care in orthodox maternity centers deliver with the TBAs. Also in 1991, a study is conducted in Ogbomosho, Oyo state on 377 women who delivered before arrival at the hospital. The study found that about 65% of the participants that attended after delivery outside the hospital are delivered by TBAs while 73.7% have sought help for retained placenta with bleeding (Fajemilehin, 1991). There is no gain saying that the powerful

effect of TBAs on communities has been noted and acknowledged, and the reason is that women are still patronizing them. Hence, the necessity to pay particular attention to the role of TBAs to stem an increase in maternal death as linked to their wide acceptance because they dominate the control of maternal health services in most communities.

Though most studies indicate that training TBAs does not necessarily improve maternal mortality (Mboho, Eyo, & Agbaje, 2012), yet they conduct many deliveries at home despite the closeness of orthodox health services, because they are preferred and the provision of enough skilled attendants is not feasible. Consequently, there should be an effective program to prepare and improve their competencies in conducting deliveries, sensitize them to early identification of dangers, initiate first-aid management of complications, and referral apart from intellectualizing them on their strengths. In addition to this, it is needful for the health sector to work with them through efficient and effective coordination and supervision because they lack the expected medical knowledge and may attend to women inappropriately thereby exposing women to complications that may lead to death (Imogie, 2009; Inyang & Anucha, 2015). Given the foregoing, this study sets out to determine the effectiveness of a training program on TBAs knowledge and skills on first-aid management of selected emergencies in labor with the view to mortality rates especially, as relate to our immediate environment, that is, in Ogbomosho, Oyo State, Nigeria.

Objectives of the study

The study sets out to determine the effect of nurse-led training for enhancing the knowledge of Traditional Birth Attendants on First-Aid Management and their skills of managing selected obstetrics emergencies in labor towards the reduction of maternal mortality in Ogbomosho, Oyo State, Nigeria. The specific objectives are to:

1. determine the pre- and post-intervention knowledge of TBAs on first-aid management of some selected obstetrics emergencies in labor.
2. establish the pre- and post-intervention skills of TBAs on first aid management of selected labor emergencies.

3. implement Enhancing Training Package (ETP) on TBAs for the management of some selected Labour emergencies.

Research Questions

The following research questions are answered:

1. What are the pre and post-intervention knowledge of TBAs on first-aid management of some selected obstetrics emergencies in labor?
2. What are the pre and post-intervention skills of Traditional Birth Attendants on first aid management of selected labor emergencies?

Hypotheses

- H₁: There is a significant difference between pre and post-intervention mean scores of knowledge of TBAs on first aid management of selected emergencies in labour.
- H₂: There is a significant difference in pre and post-intervention mean scores of skills of TBAs on first aid management of selected labour emergencies.

METHODOLOGY

Design: The study utilizes one group pre-test-post-test experimental research design. One group is utilized because the size of the population of the study is small.

Research Setting: The study was conducted in Ogbomosho, Oyo State. Ogbomosho is a town in Oyo State located between Ibadan and Ilorin. The town is a link between the South West and North Central of Nigeria. The major occupation of the people in Ogbomosho is farming and trading with an average population well educated. It is surrounded by many rural areas. The Ogbomosho community has a lot of TBAs practicing both in the town and the rural areas that surround it. The setting is the site where they gather for their monthly meetings. The center for meeting of association of TBAs is in Ogbomosho South local Government which accommodates all TBAs in Ogbomosho and its environments. The headquarters of Ogbomosho South is in Arowomole and it has a population of 100,815 and an area of 68 km²

Target Population: The study population consists of 150 people that enrolled as members of the

association of TBAs in Ogbomosho. According to the chairperson of TBAs, a total number of 150 people enrolled as members of the association.

Sample size determination: The sample size was calculated using Cochran formula = $Z^2 p q / e^2$, p=70%, error 5% and 95% confidence interval. The study sample size was 108; while the attrition rate of 10%, that is, 10.8 was added to it, which is approximately 119.

Sampling Technique: Therefore, the sample size of 119 was randomly selected out of the 150 total number. One hundred and nineteen participants (119) were recruited but One hundred and eleven (111) participated completely to the end of the study.

Instrumentation: Test Paper on Knowledge of First-aid Management (TP-KFM) of some selected labor emergencies to gather data on the participants' cognitive domain based on Bloom taxonomy learning domain created by Benjamin Bloom in 1956. The TP-KFM consists of twenty-one questions; the maximum score for the correct response was 21 points. The scores were categorized into three: scores between 1 and 9 were considered as below average, scores between 10 and 16 were considered as average knowledge, and scores between 17 and 21 were considered as above-average knowledge.

Moreover, a Self-developed Rating Scale (SRS) on selected labour emergencies was used to collect data on the psychomotor domain of the participants through an observational method. The SRS consists of 14 responses. Skills of managing cord presentation, cord prolapse, and postpartum were enhanced in the study. The skills were rated between 0 and 1. Participants that did not perform the procedures correctly scored 0, and anyone who performed fairly well scored ½ point, while those that performed the procedures correctly scored 1 point. The maximum obtainable scores were 14. Scores between 0 and 6 were considered as below average knowledge, scores between 7 and 10 were regarded as average knowledge, while scores between 11 and 14 were regarded as above average.

Validity of Instrument: TBAs' demographic Questionnaire (TBA-DQ), test paper, and self-developed rating scale are carefully constructed by the researcher to cover the content area of the study on knowledge on identification and first-aid management of selected Labour emergencies. These instruments are subjected to correction by

the supervisor and expert in the field. A proper correction is affected before the administration of the instruments. This procedure assures the face and content validity of the instruments.

Reliability of instruments: The reliability of the instruments is established through an internal consistency approach. The instruments is administered to 30 TBAs from Oyo Township which is not in the same location as the sample for the research work and the correlation coefficient of internal consistency of the test is computed and Cronbach's Alpha value is found to be 0.78 for TP-KFM and 0.70 for SRS.

Method of data collection: Ethical approval for this study was obtained from Babcock University health review ethical committee with reference BUHREC 633/17 on July 15th, 2018. The Chairperson and other Executive Members of the TBAs Association were intimated with the research, also the respondents were informed about the research work, they were assured that all information will be treated confidentially and they were asked to sign an informed consent. A total number of ten research assistants were trained for two days by the researcher on the objectives of the study and also how to go about administration, collection of the test paper, and rating with a self-developed rating scale and how to ensure confidentiality and anonymity.

Pre-intervention phase: The members of the association of TBAs were met through the chairperson during their meeting days as it was agreed on by the researcher and the participants. The researcher familiarized and got acquainted with the participants. A good rapport was established, the objectives of the research were explained to them and they were informed that the study would cover about five sessions. The researcher and the participants agreed on topics to be discussed, duration of each session (one hour thirty minutes), convenient time and days of sessions and discussion will be in the local language to facilitate adequate understanding. It was also agreed during this visit that they will be observed on their skills of managing cord presentation, cord prolapse, and postpartum hemorrhage. They were assured of the confidentiality of data and that they can withdraw at any stage of the research work without it having any negative implication on them. The researcher introduced the ten research assistants to the participants.

Intervention phase

The intervention phase was in five sessions. The objective of this phase was to expose the participants to the teaching module of enhancing the training package of TBAs in identification and first-aid management of selected Labour emergencies. This session was divided into four sessions and activities that were done in each of the sessions include the following:

Session one (1st week): Participants were re-oriented on the research protocol, informed and written consents were obtained and pretest instruments were administered.

Session two (2nd week): Training on first-aid management of prolonged labor, obstructed labor, and cord presentation was done. The objectives of the teaching session were:

At the end of the teaching session, participants should be able to:

- i. describe the first-aid management of prolonged labor, obstructed labor, and cord presentation.
- ii. demonstrate the skills for managing cord presentation before referral.

The researcher welcomes the participants and makes them comfortable while the training session addressed highlighted areas in the objectives. The session lasted about one hour and thirty minutes. All questions that were asked were answered and skills managing cord presentation was covered.

Session three (3rd week): Training of participants on first-aid management and skills of cord prolapse, abruption placentae, and postpartum hemorrhage. The objectives of this session were:

At the end of the teaching sessions participants should be able to:

- I. describe the first-aid management of cord prolapse, abruption placenta, and post-partum hemorrhage
- ii. demonstrate the skills of managing cord prolapse and post-partum hemorrhage before referral.

A brief recap of the previous session was done. The teaching of first-aid management of cord prolapse, abruption placenta, and post-partum hemorrhage was done. Demonstrations of skills for managing cord prolapse and postpartum hemorrhage were

done by the researcher and the research assistants. The session lasted about one hour and forty minutes. All questions that were asked were answered.

Session four (4th week): A review of what was done on the six previously discussed selected emergencies in labor, clarifications were made and all questions were answered.

Session five (8th week): Evaluation Session: This session was done two weeks after the last intervention session and this was when post-intervention instruments were administered to determine their knowledge of first-aid management and skills of selected labor emergencies. The researcher wished the participants well in their practices.

Method of data analysis: The Data obtained were coded and analyzed using SPSS statistical software version 21.00 (IBM Corp released 2012 Armonk, NY: IBM Corp). Variables and research questions were analyzed using descriptive statistics

(percentages and mean). Inferential statistics of Paired T-test were utilized to the two hypotheses of the study and results were presented in ascribed tables.

RESULTS

Table 1 reveals that 111 TBAs participate in the study in which the predominant age of the TBAs was between the ages of 41 to 50 years which represents 44 (39.6%). The majority 92 (82.9%) of the TBAs are married. The level of education of TBAs shows that most of them 53 (47.7%) have secondary education. Significantly, the majority of the TBAs 104 (93.7%) are Christians by religion. The findings on gender depict that predominantly, 104 (93.7%) of TBAs are females. The years of experience show that majority 70 (63.1%) of TBAs have years of experience ranging from 1 to 10 years. Majority 107 (96.4%) claim that they are formally trained.

Table 1 : Demographic Data

	Variables	Frequency	Percentage (%)
Age Range	21-30 years	6	5.4
	31-40 years	40	36.0
	41-50 years	44	39.6
	51 years and above	21	18.9
	Total	111	100.0
Marital Status	Divorced	3	2.7
	Married	92	82.9
	Widowed	16	14.4
	Total	111	100.0
Level of Education	No Formal Education	8	7.2
	Primary Education	40	36.0
	Secondary Education	53	47.7
	Tertiary Education	10	9.0
	Total	111	100.0
Religion	Christianity	104	93.7
	Islam	5	4.5
	Traditionalist	2	1.8
	Total	111	100.0
Gender	Female	104	93.7
	Male	7	6.3
	Total	111	100.
Year of Experience	1-10 years	70	63.1
	11-20 years	30	27.0
	21-30 years	7	6.3
	30 years and above	4	3.6
	Total	111	100
Formally Trained	No	4	3.6
	Yes	107	96.4
	Total	111	100.0

Table 2 shows that during pre-intervention, 94 (84.7%) TBAs have below-average knowledge on first aid management of selected labour emergencies as compared to post-intervention below-average knowledge on first aid management of 2 (1.8%), 17 (15.3%) having an average knowledge during pre-intervention on first aid management of selected labour emergencies as against 34 (30.6%) post-intervention, while there is

no TBAs that has an above-average knowledge on first aid management skills in selected Labour emergencies during pre-intervention as compared to 75 (67.6%) that have above-average knowledge on first aid management of selected labour emergencies. Means scores for pre and post-intervention is calculated to be 6.86 and 17.66 respectively. The mean gain for pre and post-intervention is 10.8

Table 2: Pre and post-intervention Knowledge of TBAs on first-aid management

Knowledge of TBAs on first-aid management of selected Labour emergencies	Category of scores	Pre-intervention		Post-intervention	
		F	%	F	%
Below average	1-9	94	84.7	2	1.8
Average	10-16	17	15.3	34	30.6
Above average	17-21	0	0	75	67.6
Total		111	100.0	111	100
Mean			6.86		17.66
Mean gain			10.8		
Maximum		15		21	
Minimum		4		9	
Range		11		12	

Table 3: shows that the pre-intervention score below average on the TBAs first aid management skill 82 (73.9%), 28 (25.2%) scores typically average while only 1 (0.9%) have above-average first aid management skills but during the post-intervention, 1 (0.9%) have below-average first aid

management skills, 24 (21.6%) have average skills on first aid management and 86 (77.5%) have first aid management skills that is above average. The pre intervention's mean score is 4.92, the post-intervention mean score is 11.46 while the mean gain is 6.54

Table 3: Pre and post-intervention first aid management skills of TBAs

First-aid management skills of TBAs	Category of scores	Pre-intervention F (%)	Post intervention F (%)
Below average	0-6	82 (73.9)	1(0.9)
Average	7-10	28 (25.2)	24(21.6)
Above average	11-14	1 (0.9)	86 (77.5)
Total		111(100)	111(100)
Mean		4.92	11.46
Mean gain		6.54	
Maximum		11	14
Minimum		3	6
Range		8	8

Table 4: shows that there is a significant difference between pre-intervention score and post-intervention mean score on first-aid management of labour emergencies by the TBAs ($t = 46.913, p = 0.00$). Hence, the alternate which states that there is

a significant difference between pre and post-intervention mean scores of knowledge of TBAs on the identification of selected labour emergencies is accepted.

Table 4: Paired sample t -test of pre and post -intervention mean scores of knowledge of TBAs on first aid management.

Knowledge of TBAs on first aid management of all selected emergencies in Labour.	Mean	N	Standard. Deviation	Std. error mean	df	<i>t</i>	<i>p</i> -value
Pre-intervention scores	6.8	1	2.473	0.235	1	46.9	0.00
	6	11			10	13	
Post-intervention scores	17.	1	2.373	0.225			
	66	11					

0.05 level of significance

From Table 5: it can be deduced that there is a significant difference between Pre and Post-Intervention mean scores for skills of TBAs in first-aid management of Labour emergencies ($t = 39.571, p = 0.000$). Hence, the alternate which

states that there is a significant difference between pre and post-intervention mean scores of skills of TBAs on first-aid management of selected Labour emergencies is accepted

Table 5: Paired sample t -test to compare pre and post -intervention mean scores of skills of TBAs on first aid management

Skills of TBAs on first aid management of selected Labour emergencies	Mean	N	Standard. Deviation	Std. error mean	df	<i>t</i>	<i>p</i> -value
Pre intervention scores	4.92	111	1.936	.184	110	39.571	0.00
Post intervention scores	11.46	111	1.367	.130			

0.05 level of significance

DISCUSSION OF FINDINGS

This study reveals that the predominant age of the TBAs is between the ages of 41 to 50 years which represents 44 (39.6%). Majority 92 (82.9%) of the TBAs are married. The level of education of TBAs shows that most of them 53 (47.7%) have secondary education. Majority of the TBAs 104(93.7%) are Christians. The findings on gender also show that predominantly, 104 (93.7%) of TBAs are females. This is because the task of taking care of pregnant women in the local settings is mostly dominated by the female gender in Nigeria. This goes in line with the submission of Shamsudeen (2013) which document that TBAs are mostly women and have a low level of formal education. The years of experience show that the majority 70 (63.1%) of TBAs have years of experience ranging from 1 to 10 years. The majority 107 (96.4%) claim they are formally trained.

Findings reveal that the pre-intervention knowledge of TBAs on first-aid management of some selected labor emergencies is poor as majority 94 (84.7%) of the TBAs' knowledge on first-aid management of selected labour emergencies is below the average of grade 1 – 9 (mean score of 6.86 ± 2.37). There is an improvement in the TBAs post-intervention knowledge as there is no TBA that has an above-average knowledge on first-aid management during pre-intervention as compared to 75 (67.6%) that have above-average knowledge on first-aid managements 17.66 ± 2.37 , there is a mean gain of 10.8. The reason for low knowledge on first-aid management can be linked to the fact that they do not have a periodic update on their knowledge and the increase in the post-intervention knowledge is therefore linked with exposure to the training package.

Moreover, the training is carried out using more graphics and demonstrations than tutorials or lecturing. This does not support the findings of Oshonwoh *et.al.* (2014) that report a higher percentage of the TBAs that participated in their research know their practices. The post-intervention knowledge on first-aid management is improved. This implies that exposure to the training significantly improved their knowledge during post-intervention. However, the outcome of the study validates the findings of Owens (2011) that TBAs lack adequate knowledge in handling obstetrics emergencies, as maternal mortality is also linked with prompt access to obstetrics

emergencies because 15% of women are prone to have obstetrics emergencies cases during labor.

The findings from Table 3 reveal that pre-intervention knowledge of TBAs skills in first-aid management of selected labour emergencies is low, majority 82 (73.9%) score below average on a grade of 1- 6 (mean score 4.92 ± 1.94) contrasting the post-intervention mean score of 11.46 ± 1.37 with a mean gain of 6.54. The pre-intervention skills are below average because they are not having an update on skills in the management of labor emergencies and their increase in the post-intervention skills is therefore linked to exposure to training which combined demonstration and using of pictorials in teaching them. This does not support the findings of Oshonwoh *et.al.*, (2016) that report no relationship linking the skills of TBAs and their capability to manage or handle delivery problems or difficulties.

There is a significant difference between pre and post-intervention mean scores (Table 4) on first-aid management of labor emergencies of TBAs ($t = 46.913, p = 0.00$) hence, the stated null hypothesis is not accepted. The reason for differences in the pre and post-intervention mean scores is because the TBAs rarely engage in continuous training and refresher program but as a result of participating in the training session fully, they are able to understand what is taught as a result of the combination of various teaching methods. It validates the findings of Hernandez *et.al.*, (2017) that report a great increase in the TBAs obstetrical knowledge as compared with the pretest scores, they are able to identify complications in pregnancy and labour and refer on time and are able to offer basic prenatal care that would not have been rendered before.

The outcome of an intervention study also corroborated the findings of Pyone *et.al.*, (2014) that TBAs are able to identify the danger signs of pregnancy, other complications during pregnancy, during labor and are able to advise the women appropriately. It is deduced from Table 5 that there is a significant difference between pre and post-intervention mean scores for skills of TBAs in first-aid management of labor emergencies ($t = 39.571, p = 0.00$). Hence, the stated null hypothesis is not accepted. The reason for the significant difference between the pre and post-intervention skills is linked with the exposure to the training that utilizes demonstration and other teaching skills that

facilitates their proper understanding and remembering of the skills required of them to give first-aid management in selected labour emergencies. This is not in support of Oshowoh *et.al*, (2016) study that report no relationship linking the skills of TBAs and their capability to manage or handle delivery problems or difficulties. However, the outcome of this study is similar to the findings of Rodgers (2004) that presents an improved and retained knowledge as well as the outcome of training TBAs in which they are able to identify high-risk pregnancies and manage obstetrical emergencies as there is a marked improvement in referral practice.

CONCLUSION AND RECOMMENDATION

The skills in first aid management of selected Labour emergencies is found to be poor prior intervention but is noted to increase significantly during the post-intervention. This connotes that training the TBAs can help to improve their knowledge on early identification of labour emergencies and also know what to do to prevent complications during referral as a referral is part of the first aid management that is expected of TBAs thereby helping to reduce maternal mortality. It is therefore very important to incorporate or organize regular training for TBAs to target early identification of Labour emergencies or complications and first-aid management during referral.

Based on the findings from this study, the following recommendations are made: The importance of training TBAs by the Ministry of Health should not be underrated in the quest to reduce maternal mortality to the minimum; hence regular training together with prompt supervision should be done by each state in training the TBAs as pregnant women kept patronizing them. Also, training should not only be limited to identification and referral on recognition of complications but should also be extended to first-aid management to prevent further complications during a referral to the nearest health facility. Similarly, training should also be done by trainers in the indigenous language to improve understanding of what is being taught. Teaching should not be taught in abstract by Trainers but should combine different teaching methods using colorful teaching aids, simulation, and teaching them from simple to complex as this will facilitate their learning and will make them

remember and act appropriately on recognition of Labour emergencies. The midwives should create a link with the TBAs and there should be periodic meeting, training, and prompt supervision of their services

Implication to Nursing

The outcome of this study reveals how training enhances the skills of TBAs towards identification and first-aid management and thus will help policymakers on maternal and child health issues to make healthy decisions affecting the health of mother and child as regards the aspects of TBAs. The State Ministry of Health in conjunction with the Director of Nursing Services should train, register, monitor, and supervise TBAs practices toward early identification and first-aid management during a referral to a well-equipped hospital. The findings of this study also reveal that there are lots of deliveries that take place with the TBAs. The nursing profession should work on the training of TBAs and should make hospital environment and services accessible and affordable to improve patronage and make hospital deliveries friendly.

REFERENCES

- Abiodun, O., Sotunsa, J., Olu-Abiodun, O., Ani, F., Taiwo, A., & Taiwo, O. (2015). The effects of training on Traditional Birth Attendants' PMTCT related knowledge and care practices in Nigeria. *Journals of AIDs and clinical Research*.
- Abodunrin, O., Akande, T., Musa, I. O., & Aderibigbe, S. (2010). Determinants of referaal practices of clients by Traditional Birth Attendants in Ilorin, Nigeria. *African Journal of Reproductive Health*, 77-84.
- Adesokan, F.O. (2014). *Reproductive health for all ages*. 3rd edition. Bosem Publishers. Ondo State, Nigeria
- Adewole, I. (2017). *Nigeria to achieve below 100 Maternal Mortality Ratio by 2030*. Retrieved from <http://www.google.com> this day live.com: <http://www.google.com> this day live.com
- Anderson, L. (2001). *A Taxonomy for learning, teaching and assessing: A revision of Bloom's taxonomy of educational*

- objectives. New York: Pearson, Allyn and Bacon.
- Armstrong, A. (2011). *The impact of traditions and Traditional Birth Attendants on Maternal mortality: A case study of Nyakayojo sub-country, Mbarara district*. Uganda.
- Ayede, A. (2012). Persistent mission home deliveries in Ibadan: Attractive roles of Traditional Birth Attendants. *Ann.Ib Post grad.Med*, 22-27.
- Bergstrom, S., & Goodburn, E. (2001). *The roles of Traditional Birth Attendants in the reduction of Maternal mortality: Studies in health services organization and policy*. Van Lerberghe: ITG Press.
- Ebuechi, O., & Akintujoye, F. (2012). Perception and utilisation of Traditional Birth Attendants by Pregnant women attending primary health care clinics in a rural local government area in Ogun state, Nigeria. *International Journal of women's Health*, 25-34.
- Fajemilehin, R. (1991). Factors influencing high rate of "born-before-arrival" babies in Nigeria : A case control study in Ogbomoso. *International Journal of Nursing Studies*, 13 - 8.
- Hernandez. (2017). *How a training program is transforming the role of Traditional Birth Attendants from cultural practitioners to unique health-care providers: A community case study in rural Guatemala*.
- Imogie, A. (2011). *The practice of Traditional Birth Attendants and Women's Health in Nigeria*. Retrieved from http://www.regional.org.au/au/mwia/paper/full/28_imogie.ht.
- Imogie, A., Agwubike, E., & Aluko, K. (2002). Assessing the role of Traditional Birth Attendants (TBAs) in health care delivery in Edo State, Nigeria. *Afr J Reprod Health*, 94-100.
- Inyang, M., & Anucha, O. (2015). Traditional birth attendants and maternal mortality. *Journal of Dental and Medical Sciences*, 21-26.
- Izuagbara, C., Wekesah, F., & Adedini, S. (2016). *Maternal mortality in Nigeria: A situation update*. Africa population and health research centre.
- Jokhio, A., Winter, H., & Cheng, K. (2005). An intervention involving Traditional Birth Attendants and perinatal and maternal mortality in Pakistan. *Engl J Med*, 2091-2099.
- Kucharski, O. (2015). Maternal mortality in Nigeria: Reducing rate through education. *Prospect Journal of international Affairs UCSd*, 34-38.
- Mahiti, G., Kiwara, A., Mbekenga, C., Hurtig, A., & Goicolea, I. (2015). "We have been working overnight without sleeping": Traditional Birth Attendants' practices and perceptions of post-partum care services in rural Tanzania. *BMC Pregnancy and Childbirth*, 15.
- Mboho, M., Eyo, U., & Agbaje, O. (2012). Services of the Traditional Birth Attendants: How relevant in achieving Millenium Development Goals 5. *Academic Research International-index Copernicus Journals*, 710-717.
- National Population Commission. (2013). *National Demographic and Health Survey. Abuja NPC*. National Population Commission.
- Nwokoro, U. (2014). Choice of Birth place and use of Birth attendants. *Journals of Medical sciences*, 65-72.
- Ogunyomi, M., & Ndikom, C. (2016). Factors influencing the utilization of Traditional Birth attendants in Akinyele Local Government, Ibadan, Nigeria. *Journal of community Medicine and Primary Health Care*, vol 28.
- Oshonwoh, F., Nwakwuo, G. C., & Ekiyor, P. C. (2014). Traditional Birth Attendants and women's health practices: A case study of Patani in southern Nigeria. *Journal of Public Health and Epidemiology*, 252-261.
- Owens, I. (2011). *Traditonal Birth Attendants and the Pursuit of Maternal and Child Health in Nigeria*. Retrieved from http://www.sas.upenn.edu/ppe/Events/uniconf_2011/documents/Owens.Ibie.Noma.FinalPaper.PDF:
- Owoseni, J., & Owumi, J. (2013). The impacts of Traditional Birth Attendants on Maternal and Child health in Ikole L.G.A of Ekiti,

- Nigeria. *The Journal of Obstetrics and Gynaecology of India*, 50-62.
- Pyone, T., Adaji, S., Madaj, B., Woldetsadet, T., Den, V., & Brock, N. (2014). Changing the roles of Traditional Birth Attendants in Somaila. *International Journal of Gynaecology and Obstetrics*, 41-46.
- Reeve, M., Onyo, P., Nyagero, J., Morgan, A., Nduba, J., & Kermode, M. (2016). Knowledge, attitude and practices of Traditional Birth Attendants in Pastoralist communities, Kenya: A cross-sectional survey. *Pan African Medical Journal*.
- Rodgers, K. (2004). Outcomes of training Traditional Birth Attendants in Rural Honduras: Comparism with a control group. *Journal of Health and Population in developing Countries*, 16-20.
- Sanogo, R., & Giani, S. (2014, April). *Traditional Birth Attendants and management of obstetrics emergencies in Sikasso and Kolokani Districts, Mali, West Africa*. Mali: Sanogo. Retrieved from www.aidemet.org;www.huraprim.ugent.be
- Sarker, B., Rahman, M., Rahman, T., Hossain, J., Reichenbach, L., & Mitra, D. (2016). Reasons for preference of home deliveries with Traditional Birth Attendants in Rural Bangladesh: A Quantitative Exploration. *PLoS ONE*. DOI:10.1371/journal.pone.0146161
- Say, L., & Alkema, L. (2014). Global causes of Maternal death: A WHO systematic analysis. *Journal of Obstetrics*, 32-34.
- Shamsu-Deen. (2013). Assesment and contribution of Traditional Birth Attendants in Maternal and Child health care delivery in Yendi District of Ghana. *International Knowledge sharing platform Journals and Books hostling*. Retrieved from www.iiste.org.
- Sharavan. (2008). Training of Traditional Birth Attendants: An examination of influence of biomedical framework of knowledge on local birth practice in India. *Journal of public Health*, 62-69.
- Sibley, L., & Sipe, T. (2006). Transition to skilled birth attendant: Is there a future role for trained birth attendants? *Journal of Health, Population and Nutrition*, 472-478.
- Unyime, I., Idongesit, L., & Akpabio, E. (2016). High patronage of Traditional Birth Homes: A report from Akwa Ibom, Southern Nigeria. *AASCIT Journal of health*, 17-22.
- Vyaguasa, D. (2013). Involving Traditional Birth attendants in emergency obstetrics care in Tanzania: Policy implications of a study of their knowledge and practices in Kigoma rural districts. *International Journal for Equity in Health*, 23-32.
- World Health Organisation/UNICEF/United Nations Population Fund. (1992). *Traditional Birth Attendants: A joint WHO/UNFPA/UNICEF Statement*. Retrieved from <http://www.who.int/iris/handle/10665/38994>:
- World Health Organization. (2015). *Trends in Maternal Mortality 1990 - 2015: Estimates by WHO, UNICEF, UNFPA, World Bank Group and the United Nations Population Division*. Geneva: World Health Organization.
- Yousuf, J. (2010). Revisiting the exclusion of Traditional Birth Attendants from formal Health system in Ethiopia. *The Africa Medical and Research Journals*, 32-44.

