Influence of Cultural Factors on Choice of Childbirth Place Among Women in Oyigbo Local Government Area, Rivers State, Nigeria

NGOZI AFULENU OBIKA-NDIRI

<https://orcid.org/0000-0002-4564-4630>

CHIZOMA MILLICENT NDIKOM

OGOCHUKWU IMMACULATE OBIKA (✉ obika.immaculate@gmail.com)

<https://orcid.org/0000-0002-2571-8479>

OMINEOKUMA TUBONEMI ASEMINASO

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Abstract

BACKGROUND: Some cultural practices which encourages both maternal mortality and infant death, are still a major challenge especially in developing countries like Nigeria, cultural norms and practices during childbirth are common but little is documented about how these cultural and religious beliefs influence women and their childbirth place choices. The aim of this study was to find out the prevalent cultural factors that influence the choice of childbirth places among the women of child bearing age, in Oyigbo Local Government area of Rivers State in Nigeria.

METHODOLOGY: A self-structured questionnaire was used as instrument to collect data for the study through simple random sampling, and these data was analyzed using Frequency and percentage for descriptive statistics while chi-square was used for inferential statistics at 0.05 level of significance.

RESULT: The result showed that most of the women had secondary education and were mostly influenced by patriarchal system, and also there was a high level of hospital adherence among the women in Oyigbo. The influence of cultural factors; family traditions ($\chi^2 = 12.56$, $P = 0.006$), religious beliefs ($\chi^2 = 70.66$, $P = 0.000$), Lack of confidence in health facilities ($\chi^2 = 367.83$, $P = 0.000$), and Presence of male skilled birth attendants ($\chi^2 = 50.85$, $P = 0.000$), were statistical significant to the choice of childbirth place while patriarchal system ($\chi^2 = 2.99$, $P = 0.393$) was not statistically significant to the choices of childbirth places of women in Oyigbo. Influence of religion ($\chi^2 = 125.46$, $P = 0.000$) on choices childbirth place was statistically significant.

CONCLUSION: Therefore, this study has shown that there is significant religious and cultural influence on the choices of childbirth places of women in Oyigbo Local Government Area of Rivers State.

Introduction

Nigeria like many other countries in sub-Saharan Africa, has long been overwhelmed with maternal health challenges. Maternal health improvement has attracted global attention and improving women's health issues pertaining to pregnancy and delivery has become the centerpiece of national development efforts in developing countries. However, despite the relentless effort, there is little evidence to show significant decline in maternal mortality¹. The child birth mortality rate has increased in Nigeria and statistics has suggested that 144 women die each day in Nigeria due to pregnancy related reasons, which suggests that the country is one of the worst countries for handling childbirth processes². Some of the factors that determine maternal mortality include: accessibility to health services, cultural practices, socio-economic status, and the educational background of the child bearing women. In Nigeria, one of the commonest childbirth practices is home births and this is highly influenced by the community and culture³. Home births usually occur in many resource-poor countries as evident in the study by Sabit *et al.* showing that Ethiopia recorded many home births, which is an indicator that home births were still a common practice⁴. Home births can be planned or unplanned. A planned home birth is not often associated with maternal or prenatal mortality⁵. The existence of various customs and traditions in Nigeria has also

affected the maternal and child health. Nigeria has about 374 ethnic groups, with each ethnic group practicing different cultures which mostly affects childbirth in the country. There is a chance of 1 in every 13 women to die of pregnancy-related causes in Nigeria. These maternal deaths occur during labor, child delivery or within first 24 hours after childbirth⁶. The deaths that occur after childbirth are often caused by avoidable causes. Situations like infections, sepsis, eclampsia and hemorrhage after childbirth can be easily prevented in a functional healthcare system⁷.

Cultural beliefs, norms, values, and traditions have a major influence on decision making whether a mother seeks skilled delivery care or not⁸. Traditional beliefs and practices, religion and ethnicity influences greatly on cultural practices that power choice of women place of giving birth⁹. Some cultural beliefs are interlinked with religious beliefs¹⁰. Most African women consider the right to good health as contingent on fulfilling their purpose of taking care of and meeting the needs of their families especially, the husband, at the expense of their own physical health and well-being¹. There is a religious and cultural dimension for this consideration such as the African traditional religion and an Islamic culture patriarchal system that undervalues women by putting women's reproductive health capacities under strict male control, the practice of wife seclusion which restrict women's medical care, marriage at an early age leading to pregnancy often occurring before maternal pelvic development is complete, polygamy and harmful traditional medical practices¹.

Female autonomy; which is the ability of a woman to make decisions in the family relative to the man, plays a vital role in maternal health care. In most African countries, the husbands make a choice of where the wives should deliver^{11,12} and maternal age of women is a determining factor to how the women of child bearing age indulge in childbirth practices¹³. In some cultures, women are often given off to marriage before they get to the expected maturity age of eighteen which is still obtainable Gombe, Adamawa State in Nigeria, and such cultural practices are known to have encouraged girl child marriage¹⁴, which in turn decreases their chance of autonomy as women are expected to get to a particular age so as to be considered old enough for marriage. In this way, only women who are older are more confident and influential in making their own decisions when in marriage as compared to younger women. Hence, they can choose childbirth practices that are favorable to them.

Some cultural factors can be of negative influence on childbirth place choices in a community and has played a major role to childbirth attitudes among pregnant women. For instance, some taboos and practices that prevent women from taking appropriate decision on where and when to seek medical attention during pregnancy and childbirth are harmful¹⁵. In addition, the use of Caesarian section during childbirths is being avoided by some women due to cultural beliefs. Albeit Caesarian section is often carried out to assist pregnant women who could not push the baby out from the vagina, it is in contrast with the normal vaginal birth. Therefore, some pregnant women refuse Caesarian section even when they clearly need it while in labor because their cultural beliefs is averse towards the procedure¹⁶.

Tribalism and ethnicity is a huge factor influencing many practices in sub-Saharan Africa. Many countries in Africa have regions that speak different languages and also practice different cultures¹⁷. Because of this, these individuals tend to discriminate among themselves in such a way that women of child bearing age, are selective in the hospitals they are bound to attend. Some of these women may decide not to visit the hospitals for medical care because they do not want to interact with individuals from a different tribe. Some culture also enforces individuals to adopt the traditional religion which has been practiced by their ancestors. Almost all tribes in Nigeria still have individuals who practice traditional religion and these individuals often reject western development. And these people who practice traditional religion do not usually believe in medical services and would resort to the use of traditional herbs for handling pregnancy related conditions¹⁰. Even amidst the pressure to abolish religious-based healthcare and traditional healing rituals, it has gained fresh momentum especially in Nigeria¹⁸.

In other cases, some cultural and religious beliefs do not allow child bearing women to receive treatments from male professionals¹⁰. Tanzanian women shy away from hospital delivery because they perceive vaginal examinations as painful and that it is dehumanizing for a male healthcare provider to perform a vaginal examination, and this makes most of the women to choose other deliveries place where all birth attendants are certainly women¹². The cultural background of most women of child bearing age in Northern Nigeria has made them reject medical care offered by male professionals¹⁶. The women are forbidden from allowing another man, who is not their husbands to see their nakedness in accordance to the laws of Islam¹². Hence, these women fear to get registered for ante-natal care or hospital births because they do not want to be presented with the situation where male health care professionals would examine them during their pregnancy. As evident with Hausa women of Kaduna State, who were not comfortable with male doctors/nurses attending to them in hospitals in the study by Okeshola and Sadiq³.

Also discrimination based on religious factor affects the maternal health care of women from different backgrounds¹⁹. The emergence of African independent church movements has revived interest in religion and spiritual Healthcare¹⁸. Religious leaders often back up childbirth with spiritual reasons. They provide birth rooms and promise good delivery outcomes derived from divine/supernatural involvement. Hence, these women end up not seeking for skilled health care professionals during pregnancy since they believe more in supernatural healthcare and prayer house delivery^{3,18}.

Diversity in childbirth is a global phenomenon. Cultural diversity in Nigeria has led to the numerous differences among people in terms of ideologies, values, principles, morals and standards²⁰. Having a good knowledge of the existing cultures applicable to a particular environment is a key to ensuring low maternal mortality rates and ensuring safe childbirth practices in the country. Nigeria comprises of 774 local government areas and about 250 dialects are spoken across these local governments. Each local government is dominated by different ethnic groups with their various cultural beliefs. In most cases,

cultural beliefs are interlinked with religious beliefs and they influence choice of childbirth places in these areas²¹. The women of childbearing age in Oyigbo Local Government need to be conversant with these cultural practices or beliefs existing in the regions where they reside or visit, and be aware of safe and unsafe childbirth places involved which would enable them to make an early and planned decision of place of childbirth. These women should be aware that the availability of healthcare professionals during childbirth is an important factor in preventing maternal mortality and align with the Millennium Development Goal of improving maternal health¹⁶. It is also important that healthcare professionals are aware of these cultural practices in these regions and how they affect women should be put into consideration¹⁰. Therefore, this study is aimed to explore the significance of the influence of some cultural factors on choices of childbirth places among women in Oyigbo local government area of Rivers State, Nigeria.

Materials And Methods

Study Design and Area

The research is a quantitative type of design which is descriptive and a cross-sectional research study approach which involves collecting, analyzing and interpreting data collected through questionnaire.

The study was conducted in Oyigbo Local government which is one of the 23 local governments of Rivers State of the South-South geopolitical zone of Nigeria. It's headquarter is in a town known as Afam, with an estimated population of about 209,841²². Oyigbo is made up of towns, villages and districts. The area hosts members of the Oyigbo sub-division of the Igbo ethnic group and dominated by Igbos. The language commonly spoken in the local government is the Obigbo dialect with Aang and English language also spoken in the area. The practice of Christianity and traditionalism dominates the towns within the local government. The traditional ruler in the local government is known as the Eze of Oyigbo. There are notable festivals held in the area with the most popular one as the Ekpe masquerade festival²².

Sample

The study population was women of childbearing age in Oyigbo Local Government Area. The study units were women of childbearing age in Oyigbo Local Government Area that entered St. Paul's Catholic Church Health Post during the study period. The sampling strategy employed was random sampling.

The inclusion criteria were women from 20-60years with at least one record of childbirth who are resident in Oyigbo and the exclusion criteria were women who were judged by the researcher to be mentally unstable and who refused to give consent or complete the survey because they were morbidly ill or afraid of losing their privacy.

The sample size was calculated as 384 using the Fischer's single population formula $n = (Z^2 \times p \times q) / d^2$ according to Charan and Biswas²³; where **Z** is the normal variable associated with significance

level α (1.96), p is Proportion of the population with the desired characteristic (stated as 50%²⁴), $q = 1 - p$, d is the required level of precision/discrepancy (5% = 0.05). $n = [1.96^2 \times 0.5 \times (1 - 0.5)] / 0.05^2 = 384$

Instrument

The questionnaire was developed in English as the instrument for the research after a thorough review of literature on cultural factors that influence choice of childbirth place in similar settings. The questionnaire elicited information about Demographic data, Common childbirth places and of the respondents, and cultural factors influencing choice of childbirth places in three sections. The sections had two types of question: those for which only one answer could be given and those for which more than one answer was possible. The questionnaire was structured and consisted of close ended questions, measured using categorical variables scale. The instrument was pilot tested on a small sample of respondents for usability and feasibility. The questionnaire was self administered but for unlearned women the questionnaire was interviewer administered and interpreted into local languages.

The reliability of the instrument was determined through the test-retest method. To ascertain the reliability co-efficient, 10 copies of the instrument were administered to a sample of 10 randomly selected women of childbearing age in Oyigbo Local Government Area of Rivers State, to respond to the items presented and the instruments were retrieved for analysis. The same copy of instrument was given to the same sample after two weeks of the initial one. The initial and final analysis was correlated and the reliability co-efficient was 0.81.

To ensure validity of the instrument, it was given to the research supervisor and other consultants in public health and community medicine for corrections and proper adjustments.

The instrument was forward translated into local languages by native speakers and translation reviewed by the researchers, midwifery and public health experts. The translation was pilot tested on a small sample of respondents for comprehensibility by asking what they think the questions and corresponding responses mean.

Data Collection

The study was conducted in St. Paul's Catholic Church Health Post Oyigbo in January – March 2020. Data was collected by the health team at working hours. The data collection process was closely supervised by the principal investigator and researchers. The data collectors were recruited based on previous experience on data collection and fluency in the local language. The data collectors and supervisors were trained on interviewing, handling ethical issues and maintaining confidentiality and privacy.

Data Analysis

Data was analyzed using the Statistical Package for Social Sciences (SPSS) Version 22 (SPSS Inc., Chicago, IL., USA). Descriptive data analysis uses frequency distribution and Chi-square technique was

used to test the hypotheses, with level of significance set as $p < 0.05$.

Ethical Consideration

The research subjects were thoroughly informed of the objectives of the study and of their right to opt out of the study at any point when they feel the need to do so, and they provided their written informed consent. The research received ethical approval from research ethics committee of the University of Port-Harcourt UPH/CEREMAD/REC/MM68/025 on 20 December 2019. Acceptance and permission to conduct the research in Oyigbo was granted by His Royal Highness Eze Mike Nwaji JP on April 2020.

Results

Analysis of Demographic Data

Table 1: Socio-demographic Characteristics of the Respondents

Demography	Frequency (n = 384)	Percent
Age		
20-25yrs	65	16.9
26-31yrs	198	51.6
32-37yrs	99	25.8
45yrs & above	22	5.7
Educational Level		
No Formal Education	22	5.7
Primary Education	11	2.9
Secondary Education	219	57.1
Tertiary Education	110	28.6
Post-Graduate Education	22	5.7
Marital Status		
Married	351	91.4
Single	22	5.7
Separated	11	2.9
Religion		
African Traditional Religion	26	6.8
Christian	258	67.2
Muslim	64	16.7
Others	36	9.4
Income		
< ₦30,000	263	68.5
₦30,000-₦79,999	66	17.2
₦80,000-₦149,999	22	5.7
₦150,000-₦349,999	22	5.7
₦350,000 & above	11	2.9
Occupation		
Public Civil Servants	33	8.6
Private Civil Servants	77	20.1
Business/Traders	230	59.9
Others	44	11.4

Common choices of childbirth place among the women in Oyigbo

Table 2: Choice of childbirth place among the women of childbearing age

CHILDBIRTH PLACE	YES		NO	
	Frequency	Percent %	Frequency	Percent %
Hospital	351	91.41	33	8.59
Traditional Birth Attendant Homes	19	4.95	365	95.05
Home delivery	9	2.34	375	97.66
Others	5	1.30	379	98.70

YES: represents number of respondents that chose the childbirth place.

NO: represents number of respondents that did not choose the childbirth place.

Cultural factors influencing the choice of childbirth place among the women in Oyigbo

Table 3: Cultural factors affecting the women's choice of childbirth places in Oyigbo L.G.A

CULTURAL FACTORS	YES		NO	
	Frequency	Percent %	Frequency	Percent %
Family traditions	37	9.64	347	90.37
Religious beliefs	32	8.33	352	91.67
Lack of confidence in health facilities	31	8.1	353	91.9
Presence of male skilled birth attendants	134	34.9	250	65.1
Patriarchal system	212	55.21	172	44.79

YES: respondents affected by factor. NO: respondents not affected by factor.

Significance of the influence of Cultural factors on the women's choices of childbirth place

Table 4 shows the changes in the way the variables are distributed into categories. The null and the alternate hypothesis are as stated below;

H = There is no significant association between cultural factors and choices of childbirth places among the women

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Table 4: Extent to which cultural factors affect the women's choices of childbirth places

Cultural Factors		Childbirth Place				X ²	df	P-value
		HOSPITAL	TBA	Home	Others			
Family traditions	YES	30	6	0	1	12.56	3	0.006
	NO	321	13	9	4			
Religious beliefs	YES	17	9	5	1	70.66	3	0.000
	NO	334	10	4	4			
Lack of confidence in health facilities	YES	0	19	9	3	367.83	3	0.000
	NO	351	0	0	2			
Presence of male skilled birth attendants	YES	104	18	7	5	50.85	3	0.000
	NO	247	1	2	0			
Patriarchal system	YES	194	12	5	1	2.99	3	0.393
	NO	157	7	4	4			

The table revealed that the $df = 3$ and $P > 0.05$. If obtained p -value is less than the level of significance 0.05 , the alternative hypothesis stating that there is significant association between cultural factors and choice of childbirth places is accepted and vice versa.

Significance of the religious beliefs on the women's choices of childbirth place in Oyigbo

Table 5 showed the observed count revealing the way the variables are distributed into categories. The null and the alternate hypothesis as stated below;

H = There is no significant association between religious beliefs and choices of childbirth places among the women

H = There is significant association between religious beliefs and choices of childbirth places among the women

Table 5: Association between the levels of religion and choice of birth place

RELIGION	CHILDBIRTH PLACE				X ²	df	P-value
	HOSPITAL	TBA	HOME	OTHERS			
African Traditional Religion	11	12	3	0	125.46	9	0.000
Christian	252	1	3	2			
Muslim	55	4	2	1			
Others	32	2	1	2			

The²cal is 125.46 with $df = 9$ and $P < 0.05$. The obtained p -value of 0.000 is less than 0.05. Therefore the null hypothesis is rejected. This indicates that there is a significant association between the religious

beliefs and choices of childbirth places among the women of childbearing age in Oyigbo Local Government Area of Rivers State.

Discussion

From the findings of the study as revealed in Table 1, a high percentage (91.4%) of the respondents preferred hospital as childbirth place than traditional birth attendant homes, home delivery and others. This implies that the respondents are aware of the presence of skilled medical professionals in hospitals which is the assurance of their safe delivery²⁵. Other studies like Nigeria Demographic and Health Survey (NDHS) may have divergent opinion that majority of women of child bearing age, deliver at home²⁶, but unlike the northern part of Nigeria which has the highest number of records of such births¹⁶, the southern part of Nigeria is lower. This study suggest that women of childbearing age in Oyigbo are mostly Christians (67.2%) who are more averse to traditional practices and promote hospital-based maternity care although some churches promotes prayer house delivery¹⁸.

In this study, more than half percentage (55.21%) of respondents agrees to patriarchal system of the community affecting their choices of childbirth places as previously noted by Matseke *et al.* in their study on gender differences²⁷. According to them, most African societies present males to dominate the females and this system has led to the concept of 'Patriarchy'. Hence, women do not have the right to decide where to deliver their babies. Only what the man says is what stands, whether it is in favor of the unborn child and mother or not²⁷. In a related study by Aluko-Arowolo and Ademiluyi they noted that in Madagali which is located in North-Eastern Nigeria, a significant number of home births take place and are supervised by unskilled individuals approved by their husbands or the man responsible for the pregnancy²⁸.

Findings from Table 4 revealed that there is association between cultural factors and choice of childbirth practices among the women of childbearing age in Oyigbo Local Government Area of Rivers State except for the factor Patriarchal system, and this agrees with Leslie and Gupta who indicated in their study that some cultural and religious beliefs do not allow childbearing women to receive treatments⁹ to which, any birthplace that is not vetted by the family tradition or that has male attendants as health workers is not considered proper for child delivery. However, because of the level of education and the background of most women in the area matters as some of them may come from enlightened homes¹⁶, even when the decision is solely on the man they still opt for medical care in hospitals for the safety of their children, therefore, Patriarchal system does not significantly affect their choices of childbirth place.

Findings from Table 5 revealed that there is significant association between religion and choice of childbirth practices among the women of childbearing age in Oyigbo Local Government Area of Rivers State and this agrees with Ababor *et al.* that suggests that cultural beliefs are interlinked with religious beliefs and people who practice traditional religion do not belief in some medical services, they will be averse to giving birth in the hospital as they cannot practice some birthing rituals¹⁰. And the use of

traditional birth attendant and herbal drugs may continue to grow with the recent shift in focus towards traditional natural medicine²⁹, if incorporation of cultural, traditional and religious care with medical care is not considered as an attracting force to utilization of hospital maternity services¹⁸.

Conclusion

Hospital is the preferred birthplace among the women in Oyigbo Local Government Area of Rivers State, this exposure could be attributed to the growing modernization, like; the autonomy, interethnic relation, level of education and societal status of the women and their family might cause them to choose the safest health care for both the mother and child. Religious belief and most of the cultural factors presented in this study influence the choices of childbirth places of women in Oyigbo significantly, therefore, provisions of safer accommodations for cultural and religious practices in the area, such as removing the male presence in the hospital on request.

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