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Multivariate Analysis of Household Decision Making, Contraceptive Use and Fertility Behaviour among Ever-Married Men in Nigeria

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Abstract

The study examined the effect of household decision making on the use of contraceptives and fertility behaviour of ever-married men in Nigeria. Men's Recode Dataset of 2013 Nigerian Demographic and Health Survey (NDHS) dataset was used. A sample size of 8,981 ever married men aged 15-49 were analyzed using Chi-square test and multinomial logistic regression. The study revealed that majority of men who take a sole decision on their earning and are using contraceptives want more children. Other factors influencing men's fertility behaviour included age, education, wealth status, age at marriage, religion, the number of living children, ethnicity and media exposure. The study concluded that women empowerment in decision making and in the use of contraceptive methods should be promoted to reduce men's fertility behaviour.

Key Words: Contraceptive, decision making, fertility behaviour, ever-married Men, Nigeria

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Introduction

Lowering population growth rates has been the goal of many countries particularly, in sub-Saharan Africa (Alkema et al, 2013). Although there has been some decline in fertility in the region (Tabutin and Schoumaker, 2004), many countries like Nigeria still has a high fertility situation. The 2013 Nigerian Demographic and Health Survey (NDHS) reported an average of 5.2 children per woman at the end of her reproductive years. This reveals a little reduction from 5.5 children per woman reported for the years 2003 and 2008 (National Population Commission [(NPopC), Nigeria, and ICF International, (2004; 2009; 2014)]. This scenario has significantly contributed to the present population growth rate of 2.63% (World Bank, 2015) and including other negative implications on the economy of the country (Shapiro and Gebreselassie, 2007; Bongaarts, 2008; Moultrie et al., 2008; UNFPA, 2012). However, the slow decline in fertility experienced in the country has been attributed to low contraceptive use. Contraceptive use which gives individuals the ability to achieve their ideal family size through the prevention of unwanted and unplanned births is one of the most effective measures to reducing high fertility levels, as evident in the developed worlds (Frost, 2004; Graff, 2014). Although Nigeria has adopted various policies and programs aimed at reducing population growth rates, its impact on fertility has not been quite notable (Okezie et al, 2010). Currently, the modern contraceptive prevalence rate in Nigeria stands at 11%, a 2% increase from what was obtained in 2008 (NPoC and ICF International, 2008; 2013).

Several studies on fertility issues and achieving lower population growth rates have focused mostly on women for the past many years including in Nigeria (Nicoletta et al, 2013; Lamidi, 2015; Charles et al, 2015; Van Deb Broeck and Maertens, 2015; Kana et al, 2016). Also, efforts in improving reproductive health outcomes through family planning and contraceptive use have centered mostly on women (Dewi, 2009) particularly in the African context. Yet, these efforts have not translated into a meaningful decline in fertility levels. This is because until recently, male involvement in reproductive health matters remains very limited and as such, has not been seen relevant in fertility- related issues (Caldwell and Caldwell, 1987; Oyediran et al, 2002; Akindele and Adebimpe, 2013). Similarly, majority of studies carried out on factors associated with contraceptive use and childbearing have overlooked men's crucial role and decision (Kaida et al, 2005; Ditekemena et al, 2012; Streefland et al, 2013), thereby making the idea of fertility performance a woman's sole concern (Mahmood and Ringheim, 1996; Wortham, 2002; Magadi and Curtis, 2003). Additionally, because it is generally seen that it is the woman that bear children, many studies conducted in past and even recently were presented as if men and women have similar fertility desires but which is not true in most cases.

Generally, reproduction does not involve only a woman. Giving birth involves two parties – a man and a woman. Thus, the need to examine the role of men in fertility issues is quite imperative. This statement was also emphasized at the 1994 International Conference on Population and Development (ICPD) in Cairo where it was declared that men should be involved in sexual and reproductive matters such as family planning and contraceptive use. Men, particularly in patriarchal settings like Nigeria, play a dominant role in influencing fertility choices in their homes. Like in many agrarian societies, Nigeria is characterized by large family size where men give birth to a large

number of children for meeting economic needs, family labour, and due to fear of death of a child (Caldwell, 1990; Blacker et al 2005). Such perceptions, however, are embedded in their cultural and societal values. But due to the men's dominant figure as a rule maker, ideas about having large family sizes daunt men's and couple's utilization of contraceptives. Thus, the success of family planning will be contingent upon men's approval (Bawah, 2002; Babalola et al, 2008; Ijadunola et al., 2010). To buttress this fact, a study carried out among married women by Oni and McCarty (1991) found that husbands' disapproval was the cause of non-use of contraceptives among those women.

Studies on fertility behaviour and contraceptive use have been found to be associated with men's socio-economic status- education and age at marriage (Martinez et al, 2011), marital status (Fuse, 2010), wealth status (Koj, 2000; Hinde and Mturi, 2000), region (Giusti and Vignoli,2006), type of family head, place of residence and religion (Uddin et al, 2011); gender roles (Kaufman 2000; Puur, Oláh et al 2008; Goldscheider et al, 2010), multi-partners (Carlson and Furstenberg 2006; Guzzo and Furstenberg, 2007), income (Guzzo and Furstenberg, 2007) and current number of living children (Lappegård and Rønsen, 2009; Kabagenyi et al, 2014; Kogay and Itua, 2017), among others. Yet, limited studies have delved into men's decision-making role in affecting contraceptive use, as a means of controlling fertility in Nigeria. Studies in sub-Saharan Africa have shown that male partners have absolute decision-making power that brings about the compliance and submission of their wives (Vouking, 2014). For instance, a study carried out among Mozambique women showed that husband influenced a woman's intention to use contraceptives (Mboane and Bhatta, 2015). Similar findings were also observed in Ghana, Zambia, Kenya and Uganda (Bawah et al, 1999; Blacker et al, 2015; Belohlav and Karra, 2013). Thus, this paper seeks to know the proportion of ever-married men taking final decision on contraceptive use, and by what type of contraceptive methods. It further seeks to know if there is a significant relationship between household decision making and contraceptive, household decision making and fertility behaviour and also, the interaction effect of household decision making and contraceptive use on fertility behaviour. Understanding these could be central in shaping interventions to address men's fertility behaviour.

Data and Methods

Data

The study used the Men's Recode Dataset of the 2013 Nigerian Demographic and Health Survey (NDHS) dataset. The 2013 NDHS is a three-stage sampling crosssectional dataset. The 2006 enumeration area (EA) census frame was employed in dividing the whole country into clusters (also known as Primary Sampling Units (PSU)). This led to the identification of a total of 904 PSU made up of 372 and 532 in urban and rural areas respectively. The use of Population Proportion to Size (PPS) to select 893 localities independently was involved in the first stage. The second stage involved a complete household listing for each PSU which in turn served as the sampling frame for the selected households interviewed. A random selection of 45 households from each urban and rural cluster using systematic sampling approach characterized the third stage. Half of the household selected was further sampled and all men aged 15-49 years in the household (who were either permanent residents or visitors who slept in the household the previous night before the survey) were eligible to be interviewed (NPopC and ICF International, 2014). From all the 904 PSU the total weighted number of eligible respondents interviewed was 17, 359 out of which 8,981 ever married men were selected for this study.

Measurement of Key Variables

The outcome variable is fertility behaviour and was defined and measured in this study as wanting more children, want no more children and undecided. The principal explanatory variables include household decision making which was measured using decision making on respondent's earnings, healthcare, and large household purchase and were categorized as a husband only, wife only, jointly, and someone else/others, and contraceptive use which was recoded as "using" and "not using". Explanatory variables used in this study include age (15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49), household wealth index (poorest, poorer, middle, richer, richest), place of residence (urban, rural), region of residence (North Central, North East, North West, South East, South-South, South-West), educational attainment (no education, primary, secondary, higher), number of living children (0, 1-4, 5+), and children ever born (0, 1-4, 5+)1-2, 3-4, 5+). Other explanatory variables used but recoded for the suitability of this study include; type of contraceptive use (never use, folkloric, traditional, and modern method), religion (Christian, Islam, traditional/others), occupational status (working, not working), number of sexual partners (0,1, 2+), exposure to mass media (exposed and not exposed), Age at first marriage (<20, 20-24, 25-49), number of wives (single, monogamous, polygamous), children ever born (0, 1-2, 3-4, 5+), and residing status of partner (living with partner and not living with partner).

Conceptual Framework

Figure 1 explained factors directly or indirectly influence fertility behaviour among ever-married men. Of note and interest are the interaction effect of household decision-making and contraceptive use and its effect on fertility behaviour among ever-married men.



Figure 1: Conceptual framework showing direct and indirect link to the outcome variable (Fertility Behaviour)

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Statistical Analysis

Descriptive and inferential statistics were employed in the data analysis using STATA 12 statistical package (Stata Corp., 2012). To ensure reliable data, men's sample weights and STATA survey command (SVY) were applied to adjust for stratified sample design and the effect of over-sampling or under-sampling of some regions or areas. Characteristics of the respondents were described using percentage distribution while Pearson 's Chi-square tests were employed to establish level of significance and degree of association between explanatory variables and response variable. The Multinomial logistic regression model was fitted to assess factors associated with the relative risk ratios (RRR) of wanting more children, want no more children or undecided. This was done because the response variable is unordered categories with more than two outcomes. Check for multi-collinearity was performed to evaluate simple correlations among the independent variables before the fitting of the model. Variables that exceeds the threshold of the variance inflation factor (VIF) were dropped from the model while those that correlated with response variable were retained.

Results

Results in Table 1 showed that seven out of ten ever married men take sole decisions on how their earnings are spent while about one-fifth of the respondents take a joint decision with their partners. Less than 10% of the sampled men reported that their spouse takes a sole decision on how their earnings are spent. Sixty-five percent of the respondents reported that they take a sole decision on their healthcare while about onefifth took decisions about their healthcare jointly with their spouse. With regards to household purchases, 22.1% of the respondents reported taking joint decisions while about 23% reported that their spouse takes sole decisions. In all, the different areas of household decision making, the proportion reported to be by someone else or others is less than 1%. Also, 83% of ever-married men were not using contraceptives while 17% were using contraceptives. The distribution of contraceptive use by type revealed however that respondents' spouses use contraceptives and the dominant method among male-based contraceptive was condom which constitutes 36.6% of respondents using contraceptives. In all, 10.2% have ever used modern contraceptive while respondents using Folkloric and Traditional method constitute about 1% and 6% respectively. The dominant method used by the respondents is condom and it constitutes about 37% of those who have ever used contraceptives. This is followed by periodic abstinence and withdrawal methods which constitute 21% and 16.4% respectively

Household Decisions	Frequency	Percent
Respondent's earnings (N=7,965)		
Husband only	5,825	73.1
Wife only	749	9.4
Jointly	1,370	17.2
Someone else/others	20	0.3
Healthcare (N=8,690)		
Husband only	5,668	65.2
Wife only	1,034	11.9
Jointly	1,920	22.1
Someone else/others	67	0.8
Household purchases (N=8,981)		
Husband only	4,361	50.2
Wife only	2,030	23.4
Jointly	2,265	26.1
Someone else/others	36	0.4
Contraceptive Use		
Ever use Contraceptive (N=8981)		
Yes	1,531	17.1
No	7,450	82.9
Types of Contraceptive Ever Used		
(N=1531)		
No method	7,450	82.9
Folkloric method	44	0.5
Traditional method	573	6.4
Modern method	914	10.2
Contraceptives (N=1531)		
Pill	115	7.5
IUD	33	2.2
Injections	138	9.0
Diaphragm	5	0.3
Condom	561	36.6
Female Sterilization	4	0.3
Male Sterilization	0	0.0
Periodic Abstinence	321	20.9
Withdrawal	251	16.4
Other	44	2.9
Implants/Norplant	21	1.4
Lactation amenorrhea (LAM)	19	1.2
Female condom	2	0.1
Foam or jelly	3	0.2
Other modern method	13	0.9

Table 1: Percentage Distribution of Decision making and Contraceptive Useamong ever-married men age 15-49, Nigeria, 2013 DHS

Bivariate

Table 2 shows three areas of household decision making (respondents' earnings, health care, and large purchases) examined alongside contraceptive use. The result shows a significant association between the decision on respondents' earnings and contraceptive use (p<0.05). At least two in five respondents who take a sole decision on their earnings use contraceptives while among those who reported that their wives take a sole decision on their earnings, about 83% are using contraceptives. Similar patterns were observed with regards to healthcare and large purchases showing a significant association existed between household decision-making and contraceptive use (p<0.05)

Table	2:	Distribution	of	Respondents	by	Household	Decision	making	and
Contra	acep	otive use							

Decision making	Contraceptive Use		Total		
	Using	Not Using			
Respondent's earnings					
husband only	3739 (85.7)	622 (14.3)	4361		
wife only	1684 (83.0)	346 (17.0)	2030		
jointly	1775 (78.4)	490 (21.6)	2265		
Someone else/others	30 (83.2)	6 (16.8)	36		
Total	7228 (83.2)	1463 (16.8)	8691 (100.0)		
$X^2 = 66.18, p = 0.0001$					
Healthcare					
husband only	4787 (84.4)	882 (15.6)	5668		
wife only	897 (86.8)	137 (13.2)	1034		
jointly	1483 (77.2)	438 (22.8)	1921		
Someone else/others	61 (90.2)	7 (9.8)	67		
Total	7227 (83.2)	1463 (16.8)	8690 (100.0)		
$X^2 = 66.18, p = 0.0001$					
Household Purchases					
husband only	3739 (85.8)	622 (14.2)	4361		
wife only	1684 (83.0)	346 (17.0)	2030		
jointly	1775 (78.4)	490 (21.6)	2265		
Someone else/others	30 (83.2)	6 (16.8)	36		
Total	7228 (83.2)	1463 (16.8)	8691(100.0)		
$X^2 = 56.88$ $p = 0.0001$					

Result in Table 3 shows a significant association exists between contraceptive use and fertility behaviour (p<0.05). Nearly 61% of those using contraceptives want more children while about a quarter of them want no more children. Also among those who are using contraceptives, the result reveals that the type of contraceptive methods used has a significant association with fertility behaviour (p<0.05). A large proportion of respondents (80%) who are using modern contraceptives are used more for birth spacing. Of interest is the fact that respondents who use any type of contraceptives still want more children. This implies that the use of contraceptives is not because they don't

want more children. It is not surprising that about 90% of respondents who are not using any method want more children. Different areas of household decision making were found to be significantly associated with fertility behaviour (p<0.05). Among the respondents who take a sole decision on their earnings, about 85% want more children while among those who reported that their wives solely take a decision on respondents' earnings constitute about 84%. Also among respondents who take a joint decision with their wives on respondent's earnings, about 75% want more children while about 23% want no more children. The same pattern is observed in respect of respondent's health and household purchases. The proportion of respondents who take a sole decision on healthcare and large purchases and wants more children to constitute 85% and 86% respectively.

Contraceptive Use	Fertility Behavi	iour (preference)	Total		
	Want more	Want no	others		
		more			
Contraceptive Use Status					
Using	941 (61.5)	382 (24.9)	208 9 (13.6)	1531	
Not Using	6288 (84.4)	664 (8.9)	498 (6.7)	7450	
Total	7228 (80.5)	1047 (11.7)	706 (7.8)	8981	
$X^2 = 433.05 \ p = 0.0001$					
Type of Contraceptive Use					
No method	241 (90.5)	9 (3.5)	16 (6.0)	266	
Folkloric method	31 (95.3)	0 (0.0)	2 (4.7)	32	
Traditional method	78 (92.9)	2 (2.9)	4 (4.2)	84	
Modern method	6879 (80.0)	1035 (12.0)	685 (8.0)	8598	
Total	7228 (80.5)	1047 (11.7)	706 (7.8)	8981 (100.0)	
$X^2 = 33.05 p = 0.0279$					
Decision making:					
Respondent's earnings					
husband only	4923 (84.5)	601 (10.3)	301 (5.2)	5825	
wife only	626 (83.6)	87 (11.6)	36 (4.8)	749	
jointly	987 (72.1)	320 (23.3)	63 (4.6)	1370	
Someone else/others	20 (97.6)	1 (2.4)	0 (0.0)	20	
Total	6556 (82.3)	1009 (12.7)	400 (5.0)	7965 (100.0)	
$X^2 = 170.67 p = 0.0001$					
Respondent's Health					
husband only	4842 (85.4)	556 (9.8)	270 (4.8)	5668	
wife only	858 (82.9)	119 (11.5)	58 (5.6)	1034	
jointly	1450 (75.5)	366 (19.1)	105 (5.4)	1921	
Someone else/others	61 (90.9)	5 (7.0)	1 (2.1)	67	
Total	7211 (82.9)	1045 (12.0)	434 (5.0)	8690	
$X^2 = 122.70 \ p = 0.0001$					
Respondent's purchases					
husband only	3751 (86.0)	423 (9.7)	187 (4.3)	4361	
wife only	1687 (83.1)	234 (11.5)	109 (5.4)	2030	
jointly	1742 (76.9)	386 (17.0)	138 (6.2)	2265	
Someone else/others	32 (90.6)	2 (5.4)	1 (4.0)	36	
Total	7212 (83.0)	1045 (12.0)	434 (5.0)	8691	
$X^2 = 92.14 \ p = 0.0001$					

Table 2. Distribution	of warm and anta	h	man and foutility	
Table 5: Distribution	of respondents	by contraceptive	e use, and terunity	y denaviour

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Multivariate Analysis

Table 4 shows the result of multinomial logistic regression of the effect of contraceptive use, decision making and selected socio-economic and demographic factors on men's fertility behaviour. Result reveals that men who are using contraceptives are 27% less likely to want more children compared with men who are not using contraceptives, instead of wanting no more children. In addition, men who are using contraceptives are 92% less likely to be undecided to want more children compared with men who are not using contraceptives, instead of wanting no more children. Compared with men who take a decision on earning only, the likelihood of wanting more children instead of wanting no more children is 75% lower among men whose wives take decision alone than among men who take decision solely. In addition, men whose wife take a decision on earning only have 26% relative risk of undecided to have more children compared with those whose husband take a sole decision on earning, rather than wanting no more children. Similarly, the likelihood of men wanting more children instead of wanting no more children is 2.71 times more likely for men aged 20-24 than for men aged 15-19 (RC). Moreover, men aged 20-24 have 16.9 times higher likelihood of undecided to have more children relative to men aged 15-19, rather than wanting no more children. As regards educational level and in comparison, with men without education (RC), men with primary education were 59% lower of wanting more children as a replacement for want no more children. In addition, the likelihood of undecided to want more children instead of wanting no more children is 37% and 48% lower for men with primary and secondary education respectively than for men without education.

Characteristics	Want more children/ Want no more children		Undecided / Want no more children		
	Coefficient	[95% Conf. Interval]	Coefficient	[95% Conf. Interval]	
Contraceptive use					
Not using (RC)					
Using	-0.73*	-0.91 - 0.56	0.08	-0.20 - 0.35	
Decision on earnings					
husband only(RC)					
wife only	-0.25*	-0.49 - 0.01	-0.74	-1.140.32	
jointly	-0.16	-0.58 - 0.26	-0.45	-1.10 - 0.20	
Someone else	-0.06	-2.65 - 2.54	-12.56	-2553.06 - 2527.92	
Decision on health					
husband only(RC)					
wife only	-0.02	-0.23 - 0.27	-0.06	-0.45 - 0.34	
jointly	-0.11	-0.45 - 0.26	0.19	-0.37 - 0.75	
Someone else	-0.19	-1.68 - 1.30	-14.00	-2133.67 -2105.66	
Decision on purchases					
husband only (RC)					
wife only					
jointly	-0.08	-0.29 - 0.13	0.24	-0.09 - 0.56	
Someone else	0.03	-0.20 - 0.27	-0.03	-0.41 - 0.34	
	-0.96	-3.00 - 1.07	-13.80	-2683.49 - 2655.89	
Age					
15-19 (RC)					
20-24	2.71*	0.26 - 5.15	16.86	-3443.40 - 3477.13	

Table 4: Odds ratio based on multinomial logistic regression analysis, of contraceptive use, decision-making and fertility behaviour

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25-29	1.75	-0.44 - 3.94	15.83	-3444.44 - 3476.10
30-34	1.13	-1.05 - 3.30	15.57	-3444.69 - 3475.83
35-39	0.58	-1.59 – 2.75	15.44	-3444.82 - 3475.71
40-44	0.03	-2.14 - 2.21	15.14	-3445.12 - 3475.41
45-49	-0.33	-2.51 - 1.85	14.87	-3445.39 - 3475.14
Educational level				
None (RC)				
Primary	-0.41*	-0.760.05	-0.63*	-1.120.16
Secondary	-0.30	-0.66 - 0.05	-0.52*	-1.020.04
Tertiary	-0.31	-0.70 - 0.05	-0.53	-1.07 - 0.01
Wealth quintile				
Poor (RC)				
Poorer	-0.89*	-1.390.40	-0.10	-0.77 - 0.57
Middle	-1.13*	-1.620.64	-0.29	-0.96 - 0.38
Richer	-1.47*	-1.970.98	-0.60	-1.30 - 0.09
Richest	-1.75*	-2.271.23	-0.86*	-1.610.12
Religion				
Christian (RC)				
Islam	1.03*	0.81 - 1.25	0.58*	.24 – 0.93
Others	0.59	-0.05 - 1.24	0.32	-0.73 - 1.39
Place of				
residence				
Urban (RC)				
Rural	0.08	-0.11 - 0.26	-0.23	-0.53 - 0.07
Ethnicity				
Hausa/Fulani (RC)				
Igbo/Ibo	-1.62*	-2.051.19	-0.89*	-1.490.30
Yoruba	-1.99*	-2.381.60	-1.72*	-2.271.17
Others	-1.28*	-1.660.90	-1.05*	-1.540.55
Number of Living				
Children				
None (RC)				
1-4 children	-1.53*	-2.170.90	-1.28*	-2.060.49
5 children and above	-2.66*	-3.312.00	-1.84*	-2.671.01
Age at marriage				
15-19 (RC)				
20-24	0.41*	0.15 - 0.66	0.18	-0.21 - 0.57
25-49	0.80*	0.55 - 1.05	0.42*	0.03 - 0.82
Media exposure				
Not exposed (RC)				
Exposed	-0.24*	-0.420.08	-0.17	-0.45 - 0.12
_cons	5.56*	3.36 - 7.76	-12.80	-3473.07 - 3447.46
Madalanana and Tast	1.11	1 5 5 1 1 1 1 .		(2 (7 16 (9 7744

Model summary: Log Likelihood=-3551.55, model chi- square ($\chi 2$) = 2063.67, df=68, n= 7744, p-value <0.0000

RC means the reference categories * = p < 0.01, **p < 0.05 ***p < 0.10

Regarding wealth quintile and in comparison, with poor men (RC), the likelihood of wanting more children instead of wanting no more children is 1.13, 1.47, and 1.75 times more likely for men in the middle, richer, and richest of wealth status respectively and 11% lower for poorer men. In addition, the likelihood of undecided to want more children rather than want no more children is 14% lower for the richest men than poor men (RC). On religion, the result shows that the relative log odds of wanting more children in preference to want no more children are 1.03 times more likely for Muslims than for Christians (RC). In addition, the likelihood of undecided to want more children instead of wanting no more children is 42% lower for Muslim than for Christian (RC). In comparison with the Hausa/Fulani ethnic group (RC), Igbo/Ibo, Yoruba and others

ethnic group were 1.62, 1.99, 1.28 times respectively more likely to want more children as an alternative to wanting no more children. In addition, the likelihood of undecided for more children instead of wants no more children is 11% lower for Igbo and 1.72, 1.05 times more likely for Yoruba, and others ethnic groups than the Hausa/Fulani.

The multinomial result also revealed that the likelihood of want more children in place of want no more children is 1.53 times higher for men with 1-4 children and 2.66 times higher for men with 5 and above children than for men without a child. In addition, and in comparison, with men with no children (RC), men with 1-4 children and 5 and above children were 1.28 and 1.84 times higher to undecided for more children instead of wanting no more children. Furthermore, the result shows that the expected likelihood of want more children as a replacement to want no more children is 59% and 20% lower for men who married at aged 20-24 and 25-49 respectively than for men aged 15-19 (RC). In addition, and in comparison, with men who married at aged 15-18 (RC), the likelihood of undecided for more children in preference to wanting no more children is 58% less likely for men who married at aged 25-49. Finally, the likelihood of want more children in preference to want no more children is 76% lower for men who were exposed to the mass media than for men who are not exposed to mass media (RC).

Discussion

The study examined the effect of household decision-making and contraceptive use on fertility behaviour among ever-married men in Nigeria. The results show that majority of ever-married men were not using contraceptive methods. A number of studies (MacOuarrie et al., 2015; Islam, 2013) have reported similar findings. In the study area, childbearing is culturally accepted within marriage and it is expected that a large proportion of married men who desired for more children will not use contraceptives. Also, poor promotion of male-controlled methods may be responsible for the finding since the use of contraceptive methods is considered as women's affairs. Likewise, the study found that condom was the dominant method among men using contraceptives. MacQuarrie et al. (2015) reported similar outcome using DHS data from 58 men's surveys in 18 countries in Africa, Asia, and Latin America and the Caribbean. They found that condom contributes the largest share to overall contraceptive use reported by men. This may be due to the fact that men used a condom for spacing and prevention of sexually transmitted diseases. The study further showed that three out of every five men who are using contraceptives want more children while only about a quarter want no more children. Similar results were reported by Kabagenyi et al. (2013); Islam, (2013); Hossain et al. (2009). The findings may be due to the fact that most married men use contraceptives more for birth spacing and not because they do not want more children. Multinomial analysis showed that majority of men who take a sole decision on their earnings want more children than those who reported that their wives take a sole decision on their earning. A similar finding has been reported in developing countries particularly in Sub-Saharan African. Vouking (2014); Okigbo et al. (2013); Odu et al. (2005) reported in their studies that men who solely take a decision on household earnings were more likely to want more children than men whose wives solely take a decision on household earnings. This finding may be due to dominating of men in reproductive decision making. Thus, men's reproductive ambition to a large extent affects their wives' reproductive behaviour in terms of family size, the timing of pregnancies and the use or non-use of contraceptives Men in patriarchal African

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societies demand more children than their wives. Greater economic input in family upkeep may also influence men decision. In Nigeria, men wanted more children than their wives and are motivated by the socio-economic benefits, a continuation of the family name and as a way of boosting the man's ego.

Analysis of the background characteristics of respondents revealed that age, age at marriage, wealth status, education, religion, ethnicity, the number of living children and media exposure influenced fertility behaviour. Men aged 20-24 want more children than men aged 15-19. This is expected because men aged 20-24 are more likely to want more children than single men. This finding corroborates Okigbo (2015) that single younger men used contraceptives to avoid children than men in their prime age (20-24) who want children to prove their fertility and marriage. Likewise, men's education plays an important role in fertility behaviour. It is expected that higher level of education will promote the use of contraceptives particularly the modern contraceptives which will influence fertility behaviour. Thus, the study reported higher odd for more children among men with no education compared with men with any form of education. This finding is in line with previous studies by Shahjahan et al. (2013); Kabagenyi et al. (2013); MacQuarrie et al. (2015); and Islam (2013) which reported that educated men often have smaller family size. This finding has been established. On the average, educated men tend to have smaller families because of the financial consequences of large families, tend to marry later and adopt the western culture which favours a small family size. In addition, they were more exposed to mass media such as radio, television, and newspapers which influenced their fertility behaviour of not desiring for more children than non-educated men.

This study also revealed that wealth status of men influenced their fertility behaviour. The study found a positive association between wealth quintile and fertility behaviour. The likelihood of wanting more children is higher among men with higher levels of wealth compared to the poor. Similar studies have been reported by Belohlav et al. (2016); Kana et al. (2016); MacQuarrie et al, 2015); Kabagenyi et al. (2013); Islam (2013); Martinez et al. (2012); Koji (2000); Hinde, and Mturi (2000); Uddin et al. (2011). They found that the likelihood of using contraceptives and having small family size was lower among rich men compared to those men in lowest wealth quintile. Childbearing is acceptable within marriage. This study showed that men who married at younger ages want no more children than men who married at older ages. This finding is in line with Martinez et al. (2011). This finding may be due to the fact that men who married at younger ages might have completed the desired family size earlier than men who married at older ages. Furthermore, the study found that the Muslims have a higher likelihood of wanting more children than for Christian. This finding is supported by Uddin et al. (2011). Christianity promotes one man one wife and therefore tends to have smaller family size. This is because the competition to produce the greater number of children among wives is lower among the Christians than the Muslims. Also, men who have had at least one child were more likely to want no more children. This is expected and is consistent with other studies (Lappegård and Rønsen, 2009; Kabagenyi et al, 2014; Kogay and Itua, 2017). The study revealed that Yoruba ethnic group had a lower desire for more children than other ethnic groups. They also have higher odds of wanting no more children than other ethnic groups. This is consistent with previous studies by Wusu and Isiugo-Abanihe (2006). The level of education, media exposure may have influenced the relationship. Finally, available evidence from

previous studies has shown that exposure to mass media messages promotes family planning which in turn may affect individual's contraceptive behaviour and desire for fewer children. This study revealed that men who were exposed to the mass media had a lower likelihood to want more children than men without media exposure. This was also observed by Gupta et al. (2003), Ajaero et al. (2016).

Strengths and Limitations

Decision making in fertility and contraceptive use is a complex process. Decisionmaking autonomy in the 2013 NDHS men's record dataset was measured using three types of household decisions: their own health care, making major household purchases, and visits to family or relatives. However, this study would have preferred to have direct data on decision making on contraceptive use and the type of contraceptive methods used rather than the proxy indicators used in this study.

Conclusion

This study found that decision-making and contraceptive use influenced fertility behaviour among ever-married men in Nigeria. Age, education, wealth status, age at marriage, religion, ethnicity, the number of living children and exposure to mass media were among the predictors of fertility behaviour of ever-married men in Nigeria. The study suggested that women empowerment in decision making and in the use of contraceptive methods should be promoted to reduce men's fertility behaviour.

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