# Influence of gender preference and sex composition of surviving children on childbearing intention among high fertility married women in stable union in Malawi

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# Abstract

Background: Child's gender preference (GP) frequently leads to high fertility which has adverse effect on family health. The link between women's fertility intention, GP and Living Children's Sex Composition (LCSC) as found in this study is less explored in Malawi.

Objectives: We examined the relationship between GP, LCSC and fertility intention.

Methods: This study utilized 2010 MDHS dataset and focused on married women aged 15-49 years (n=1739) in stable unions who currently have at least 5 living children. Data was analyzed at bivariate and multivariate levels ( $\alpha = 0.05$ ).

Results: About 39.7% of the women have GP and higher proportion (23.3%) has preference for females. Age, region, wealth-quintile, religion, residence and family planning programmes were significantly associated with fertility intention. Women who have GP and same LCSC were 1.35 and 2.4 times significantly more likely to have intention to bear more children than those who have no GP and different sexes composition respectively. These odd ratios changed to 1.38 for GP and 2.44 for LCSC after adjusting for other socio-demographic variables.

Conclusions: We find that GP and LCSC significantly influence women's intention to bear more children. Women should stop childbearing after attaining their desired number irrespective of the LCSC.

Keywords: Fertility intention, Gender preference, Children sex composition, High fertility married women DOI: http://dx.doi.org/10.4314/ahs.v15i1.21

# Introduction

Malawi is a country of about 16.3 million people and the population growth rate is 2.8 percent.<sup>1</sup>

Studies have shown tremendous improvement in the demographic indices of the country over the years.<sup>2,3</sup> The infant and childhood mortality have reduced and there has been an improvement in contraceptive knowl-

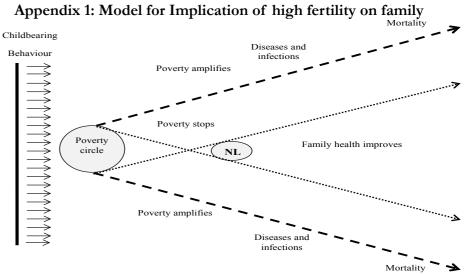
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edge. Modern contraceptive utilization increased from 13% in 1992 to 46.1% in 2010.23 The use of long acting methods, particularly sterilization, has consistently increased over years. The percentages of women who don't want to bear more children have also increased considerably from 26.6% in 1992 to 46.1% in 2010. 2,3,4,5

Despite all these great demographic success, the Total Fertility Rate (TFR) only slightly reduced from 6.7 in 1992 to 5.7 in 2010 and Malawi is still recognized as one of the high fertility countries today.<sup>1</sup> The slow pace of reduction in TFR has been a source of concern to fertility researchers and family planning programmers within and outside the country. In their search to identify the factors responsible for the high fertility in Malawi, numerous studies have been conducted across the country but only few have included gender preference and sex composition of the living children particularly among high fertility women as part of their key variables as evidenced in the current study.

Our study focused on high fertility women in stable union who either have intention to limit or postpone childbearing and also included women who do not want any more children. High fertility in this context means fertility women should have intention for more children having more than four surviving children. Also, women bearing in mind of its health and socio-economic impliwho have married only once in their life-time were recations particularly, in a country where majority of its garded as being in stable union. In a society where fertilpopulation lives in the rural area and earn below a dollar ity reduction campaign has a strong base and adherence per day.<sup>1</sup> The consequence of high fertility on family as shown in appendix 1 includes: family's income to the themes of Programme of Action of 1994 International Conference on Population and Development, threatened, overstretch of family resources, care for the women who already have more than four surviving children and their education compromised, high morchildren should not have intention to bear more chilbidity and mortality among under-five children in the dren. The restriction to highly fertile women was in family, mothers malnourished and health threatened, response to consistent reporting of four children on fathers health and labour activities threatened and povaverage as ideal number of children by Malawian womerty swells up. Small family size may increase the socioen.<sup>2,3,4,5</sup> In addition, to ascertain the reasons why high economic success position of the family in the society.



NL: New Life; \_ \_ > Small Family size \_ \_ > Large Family size Source: Adebowale, 2011

In this study, we have chosen two key independent var- children until they are satisfied with their desired sex iables to explore their relationship with childbearing in- composition.<sup>10,11</sup> tention. These variables are; gender preference and sex composition of the surviving children. Gender preference is a social menace which has lasted too long In sub-Saharan Africa, considerable levels of gender preference in favour of sons have been reported in prein developing countries and has attracted a lot of atvious studies.<sup>6,12</sup> This is because the expectation of partention in the literature<sup>6,7,8</sup> after the Cairo International Conference on Population and Development in ents is that male children add to family affluence, con-1994. In traditional culture, bearing many children was tinue the family lineage, perform important religious desired by couples, the belief among couples then was roles and defend or exercise the family's power, while that children provide source of support at old age. But daughters sap the family resources and are married away to a different family.<sup>13,6,12</sup> However, in families, there in modern world, having too many children is beginning seems to be a consistent tendency for having at least to fade away because children are more appreciated today for social and psychological reasons. Strong child's one child of each sex often referred to as preference for gender preference is still common, even within segment a gender mix. Gender preferences may have substantial of modern societies where such is least expected.9 In implications for a couple's fertility behaviour. Unfortuits context, issues associated with gender preference nately, there is only limited empirical research investihave presented researchers with several questions that gating this subject in Malawi. Our study was therefore have implications for public policies and programs. For designed to fill the gap. instance, gender preference may be a direct contributing factor to high fertility, it shortens birth intervals, in-The objectives of this study were to: explore the link creases births frequency<sup>8</sup> and some families stop having between gender preference and fertility intention, ex-

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sex composition of the surviving children and finally to identify socio-demographic variables that are related to; gender preference, sex composition of the living children and intention to bear more children. To achieve the objectives, these questions are to be answered: Does child gender preference promote intention of high fertility women to bear more children? Does the sex composition of the living children advance intention of high fertility women to bear more children? What are MDHS sample was selected using a stratified, two-stage the socio- demographic factors associated with fertility intention among high fertility women? Why should women who already have at least five surviving children intend to bear more? We hope that the study outcome will assist policy makers in their pursuit for gender holds. A minimum sample size of 950 households was equality and fertility reduction in Malawi.

# Methods

## Study area:

Malawi is a country in sub-saharan African located south of the equator. The country is divided into three regions: the Northern, Central, and Southern Regions. There are 28 districts in the country. 6 districts are in the Northern Region, 9 are in the Central Region, and 13 are in the Southern Region. Administratively, the districts are subdivided into traditional authorities (TAs), presided over by chiefs. Each TA is composed of villages, which are the smallest administrative units, and the villages are presided over by village head. The 2008 Population and Housing Census (PHC) found the population to be 13.1 million but the projected population as estimated by Population Reference Bureau in 2013 children. was 16.3 million. Malawi adopted a National Population Policy in 1994, which was designed to reduce population growth to a level compatible with Malawi's social and economic goals.<sup>14</sup> One of the policy's objectives was to improve family planning and health care programmes.

# Study Design:

The design for the study was cross-sectional and 2010 Malawian Demographic Health and Survey (MDHS) was used.<sup>2</sup> During the data collection exercise by the primary user, a multi-stage cluster sampling method was adopted. The sample was designed to provide population and health indicator estimates at the national, regional, and district levels. The sample design allowed for specific indicators, such as contraceptive use, to be calculated for each of the country's 3 regions and 28 districts. The sampling frame used for the 2010 MDHS

amine the relationship between fertility intention and was the 2008 Malawi PHC, which was provided by the National Statistical Office.

> The districts in Malawi are subdivided into Traditional Authorities (TAs) and each TA is composed of villages which are the smallest administrative units. During the 2008 PHC, the TAs were subdivided into enumeration areas (EAs), also referred to as clusters, where each EA as a whole was classified as urban or rural. The 2010 cluster design, with EAs being the sampling units for the first stage. This included 849 clusters: 158 in urban areas and 691 in rural areas. The list of households served as a sampling frame for selection of houserequired per district to provide an acceptable level of precision for the indicators measured in the survey. A representative sample of 27,345 households was selected for the survey. Detailed information about the data collection procedures is available in the 2010 MDHS.<sup>2</sup>

## Data extraction:

Data was downloaded from the Measure DHS website after the approval for use was granted by the data originators.15

# The sample size:

At the time of the survey, 23,020 women aged 15-49 were interviewed. This study utilized 1739 high fertility women based on the exclusion criteria below. High fertility in this context means having at least five living

## The exclusion criteria:

The study excluded women who; were currently unmarried (never married, cohabiting, widowed, divorced, separated), had married more than once (not in stable union), had less than five living children, were menopausal, never had sexual intercourse and those who were sterilized or declared infecund.

## The dependent variable:

The dependent variable was fertility intention. In the original questionnaire used for the survey, a question was asked from the women on their fertility intention. The possible options are; have another, undecided, want no more, sterilized, declared infecund and never had sex. Based on the exclusion criteria set for this study, we focused on women who responded that they still want to bear more children and those who said they don't want any more. Therefore, a woman fertility intention defined for this study means that she either intends to idence and levels of education. Others included were, bear more children or wants no more. recent exposure to family planning messages, marital duration and women empowerment.

## The key independent variables of interest:

The key independent variables were Gender Prefer-As for women empowerment, scores were created usence (GP) and Sex Composition of the Living Children ing variables such as; Level of education, current work (SCLC). Gender preference was self generated as proxy status, husbands desire for children, decision maker on from the information on ideal number of sons and idecontraceptive use, final say on owns health care, final al number of daughters. Women who reported highsay on making large household expenses, final say on er number of males than females as ideal number of making household daily expenses, final say on visit to children were regarded as having preference for males family or relatives, final say on who decides on how to while those who reported higher number of females spend family money, can respondent refuse sexual interwere considered as having preference for females. But, course, can ask partner to use condom. These variables those who reported the same number of children or are categorical and scores were assigned to responses who verbally said that either of the sex or accept God's of each woman included in the study. Thereafter, the decision as their ideal number of sex were considered overall score was computed for each woman and disagas not having preference. Also, the sex composition of gregated into four categories as highly empowered, fairthe living children was generated from the information ly empowered, poorly empowered and not empowered. on number of living daughters and living sons. The classification and assigning the score is in line with the measure DHS standard.5

The SCLC was generated as a proxy from the information on the number of living daughters and living sons. At the time of the survey, information was sought on Data analyses: the number of living daughters and living sons. It is The data was analysed at three levels. At the univariate possible that the living children of a woman are; Case 1: level; data plot, bars and pie charts were plotted to see either all males or all females. Case 2: sex mix i.e some the distribution of the data relative to some important are males and others are females. Case 1 was categofactors such as age, gender specific preference and fertility intention. During the bivariate analysis, fertility rized as "same sex". This is a situation where all the living children in the family are of the same sex and case 2 intention was cross tabulated with socio-demographic was regarded as "different sexes". This means that the variables and Chi-square statistic was recorded. The sex composition of the family contains at least a male maximum level of significant was set at 5%. and at least a female.

Other independent variables: The dependent variable has two categories; either a Other independent variables were current age of the woman wants no more or she wants more children. We women, religion, region, wealth quintile, place of res- used as our indicator, women who want more children;

The equations for the models are represented thus;

$$\log\left\{\frac{\phi_1}{1-\phi_1}\right\} = \beta_{01} + \beta_{01} GP$$

$$\log\left\{\frac{\varphi_2}{1-\varphi_2}\right\} = \beta_{02} + \beta_{12}SCLC$$

$$\log\left\{\frac{\varphi_3}{1-\varphi_3}\right\} = \beta_0 + \beta_{11}GP + \beta_{12}SCLC$$
$$\log\left\{\frac{\varphi_4}{1-\varphi_4}\right\} = \beta_{04} + \beta_{14}GP + \beta_{12}SCLC + \sum_{i=3}^{n}\beta_i \text{variable}_i$$

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(1a)

[1b]

 $\mathbb{F}^2$ 

C

thus, the classification (woman wants more = 1 or 0 if ethical approval was obtained from National Health otherwise). Therefore, the dependent variable is dichotomous and as such we used logistic regression model for the multivariate analysis. At this stage, three models were generated. In the first model, the two key independent variables; gender preference and sex composition were introduced into the equation independently to see their influence on fertility intention without interacting with any other variables. In model 2, the two variables were introduced into the equation jointly in order to see their interaction effect on the dependent variable. In model 3, other socio-demographic variables were included in the equation as control.

# Sciences Research Committee functioning under the Ministry of Health, Malawi. An informed consent was obtained from all the study participants after describing to them all the issues related to the study in details at the point of data collection. Eligible respondents who did not want to partake in the study were excluded from the survey. Each consented participant was made to sign appropriate agreement form before the interview. Formal online approval was granted by the mMeasure dhs DHS before the utilization of the 2010 MDHS dataset for our study.

## **Ethical Clearance:**

At the time of data collection by the data originator,

# Results

### Univariate:

In figure 1, the data show that 76.0% of the currently married women with high fertility in Malawi only mar-

Figure 1: Pie chart of the percentage distribution of currently married high fertility women in Malawi according to number of union

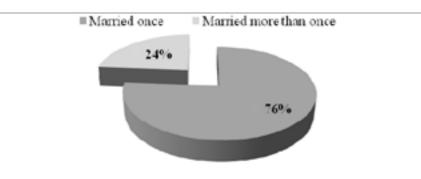
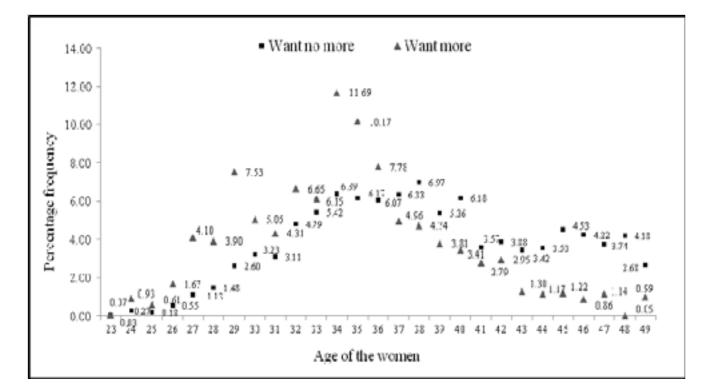


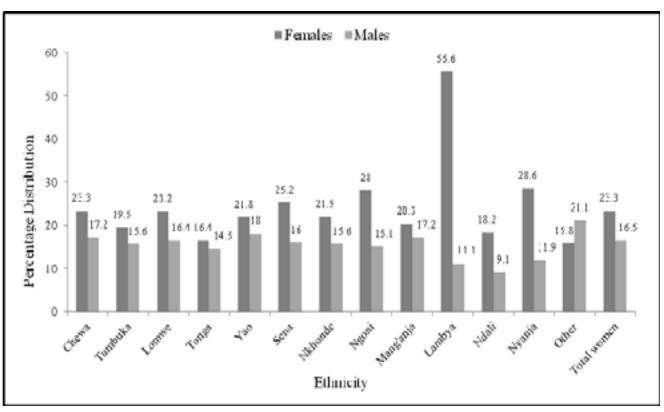
Figure 2: Data plot of the percentage distribution of currently married high fertility women in stable union in Malawi by fertility intention according to their current age



ried once. Thus, the remaining part of the analysis fo- In figure 3, the data show that across all the major cused on these set of women. ethnic groups in Malawi, women prefer to have female children than male children. About 39.8% have gender As shown in the data plot in figure 2, women who wantpreference and 23.3% have preference for females as ed more children were more than those who did not against 16.5% for males.

want any more at ages less than 36 years whereas those who don't want any more children dominate the later part of childbearing years.

Figure 3: percentage distribution of currently married high fertility women in Malawi according to their Ethnicity



rural areas (16.5) wanting to bear more children than **Bivariate:** women in the urban (9.7%). The percentage of women The data is evidenced that about 16% of the womwho wanted more children reduces consistently with inen studied have intention to bear more children while creasing level of women empowerment, reducing from 18.4% of women who have gender preference intend-17.9% among those who are not empowered to 9.7% ed to bear more children, 14.4% of those who don't among the highly empowered. have gender preference have intention to have more children. Higher proportion of women whose chil-The data further revealed that 13.8% of women who drens' sex composition are the same (30.4%) wanted recently heard about family planning messages through more children as against 15.3% of families where the media (radio, television, newspaper) signified intention sex composition of their children was gender mix. The to bear more children compared to 19.2% of their Central Region of Malawi has least proportion of its counterparts who have not heard of such messages. women (12.6%) having intention to bear more children According to religion, higher proportions of the Muscompared with those in the North (16.7%) and South lims (24.7%) want more children than any Christian re-(19.2%). Clear rural urban differential existed in the ligious group. The percentage of women who wanted percentage of women who intend to bear more chilmore children reduces consistently with increasing mardren with higher proportion of women residing in the ital duration.

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Table 1: Percentage distribution of currently married high fertility women in Malawi according to their fertility intention

Protestants: CCAP/Anglican/Seven day/Baptist; NOLC: Number of living children

Background	Fertility Intention	Total	$\chi^2$ -value	p-	Mean	p-
Characteristics	More	Women		value	NOLC	value
Total	16.0	1739			6.03±1.264	
GenderPreference			4.889	0.027		0.159
Yes	18.4	691			6.06±1.243	
No	14.4	1048			5.98±1.294	
Childrensexcomposition	•		12.884	< 0.001		< 0.001
Same sex	30.4	79			5.24±0.478	
Different sexes	15.3	1660			6.07±1.278	
Region			12.227	0.002		0.254
Northern	16.7	245			5.93±1.155	
Central	12.6	760			6.08±1.307	
Southern	19.2	734			6.01±1.252	
Residence			4.528	0.033		0.950
Urban	9.7	143			6.03±1.324	
Rural	16.5	1596			6.03±1.259	
WealthQuintile			24.452	< 0.001		0.025
Poorest	21.5	316			5.90±1.115	
Poorer	18.8	373			6.04±1.298	
Middle	13.5	385			6.20±1.331	
Richer	16.7	407			5.98±1.281	
Richest	7.7	25			5.98±1.237	
Womenempowerment			8.243	0.041		0.032
Not empowered	17.9	736			6.03±1.262	
Poorly	16.9	445			6.15±1.330	
Averagely	13.1	413			5.89±1.205	
Highly	9.7	113			6.00±1.153	
Agegroup			60.074	< 0.001		< 0.001
15-34	25.7	572			5.37±0.626	
35+	11.2	1167			6.35±1.366	
HeardaboutFamilyPlannin	grecently		8.954	0.003		0.256
No	19.2	698			6.07±1.318	
Yes	13.8	1041			6.00±1.226	
Religion			19.457	< 0.001		< 0.001
Catholic	15.6	379			6.01±1.335	
Protestants	12.0	415			5.92±1.228	
Other Christians	15.4	681			5.98±1.176	
Muslims	24.7	250			6.36±1.392	
Others	21.4	14			6.03±1.293	
Education			2.778	0.249		< 0.001
None	17.5	544			6.22±1.335	
Primary	15.5	1133			5.97±1.232	
Secondary and above	9.8	62			5.40±0.815	
Maritalduration			79.250	< 0.001		< 0.001
5-9	33.3	21			5.02±0.137	
10-14	26.4	273			5.22±0.531	
15-19	21.8	587			5.60±0.799	
20+	8.3	859			6.60±1.423	

### Multivariate:

It is worth noting that limiting the independent variables to gender preference and sex composition, and controlling for other variables have only slight effect on the odds ratios of gender preference and sex composition. In this case, women who have GP and same sex composition were 1.38(C.I=1.046-1.822; p=0.023) and 2.1(C.I=1.238-3.620; p=0.006) times more likely to have intention to bear more children than those who have no GP and different sexes composition respectively.

Other identified predictors of intention to bear more children among high fertility women in Malawi were region, wealth quintile, women empowerment, age, re-

ligion and marital duration. Women who reside in the Central Region were 0.65(C.I=0.475-0.891; p=0.007) less likely to intend to have more children than those in the Southern Region. Being in the poorest wealth quintile encourages intention to bear more children, these women were 2.822(C.I=1.523-5.228; p=0.001) more likely have intention to have more children than those in the richest wealth quintile. The data further show that the higher the level of women empowerment the lower the likelihood of intention to bear more children. Similar pattern exists for marital duration. The likelihood of intention to bear more children was higher among Muslims (OR=1.855; C.I=1.183-2.910; p=0.007) than Christians.

Table 2: Logistic regression of currently married high fertility women in Malawi according to their fertility intention

Background	Model 1		Model 2		Model 3	
Characteristics	UOR	95% CIUOR	AOR	95% CIAOR	95% AOR	95% CIAO
GenderPreference						
Preference	1.345***	1.038-1.742	1.359***	1.048-1.762	1.380**	1.046-1.822
No Preference	1		1		1	
Sexcomposition						
Same sex	2.438*	1.486-4.001	2.477*	1.508-4.071	2.117**	1.238-3.620
Different sexes	1		1		1	
Region						
Northern					1.336	0.871-2.049
Central					0.650**	0.475-0.891
Southern					1	
Residence						
Urban					0.709	0.367-1.371
Rural					1	
WealthQuintile						
Poorest					2.822**	1.523-5.228
Poorer					2.372**	1.295-4.343
Middle					1.646	0.900-3.010
Richer					2.415**	1.362-4.284
Richest					1	
Women empowerment						
Not empowered					2.557**	1.278-5.117
Poorly					2.261***	1.109-4.607
Averagely					1.844	0.892-3.809
Highly					1	
Agegroup						
15-34					1.601***	1.053-2.169
35+					1	
HeardaboutFamily	Planningrec	ently				
No Yes	-				1.261	0.947-1.680
Religion					1	
CCAP/Anglican/Se	even dav/Ba	ptist				
Other Christians		1			0.772	0.499-1.195
Muslims					0.945	0.649-1.378
Others					1.855**	1.183-2.910
Catholic					0.884	0.173-4.522
Maritalduration					1	
5-9						
10-14					3.708***	1.177-11.68
15-19					2.663*	1.628-4.357
-					2.663*	1.815-3.820
20+					1	
	-		1510 715		1220 071	•
-2 Log likelihood			1510.715		1330.071	

significant at 5%; UOR: Unadjusted Odds Ratio; AOR: Adiusted Odds Rati ficant at 0.1%; \*\*Significant at 1%; CIUOR: Confidence Interval of Unadjusted Odds Ratio; CIAOR: Confidence Interval of Adjusted Odds Ratio

# Discussion

In most settings in Africa, families have preference for males; it is worth noting that in the current investiga-The study explored the effects of gender preference tion, majority of the women studied have preference for and sex composition of living children on fertility intention among high fertility married women in stable females. The finding is in contrary to previous studies unions in Malawi. High fertility constitutes threat to conducted in sub-Saharan Africa and other countries maternal and child health. It also has tremendous imwhere male preference have been widely reported.<sup>16,17,18</sup> In a patriarchal setting, son preference is generally plication on women's development and empowerment. In some families, couples may have decided shortly viewed as a socially unwavering prejudice. Here, couafter marriage the number of children they would like ples desire to raise a child who has characteristics that to bear in their life time and this is achievable in the are culturally accepted which are linked with male sex. modern society with the existence of different choices This preference often influences behavior and may reof fertility control measures. But, couple's intention on sult in gender discrimination that negatively affect girls' the number of children they desire might change if all and women's welfare, health and survival.<sup>19</sup> The preftheir live born children are of the same sex. The link beerence for female children in Malawi across ethnic tween women's intention to bear more children, gender groups is not surprising and could be attributed to the fact that some parts of Malawi are matrilineal preference and sex composition of the living children in Malawi as examined in the current study has not been which means they trace their lineage to their mother. In comprehensively established in the literature. this culture, the men get married and stay in their wives' villages and the mother's brother (atsibweni) often plays

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an important role in the family.<sup>20, 21</sup> For instance, among trol over some household decisions including intenthe Chewa's, the largest ethnic group in Malawi, they inherit from their mother's side and daughters occupy important position in the society. They are often consulted in the society for important decision. Our result is similar to the outcome of Karsten and Hans-Peter, where preference for females was found in the Czech Republic, Lithuania, and Portugal and it was argued that cultural factors are important for gender preferences.<sup>22</sup>

About one-sixth and one-fifth of the women studied and those who have gender preference have intention to bear more children respectively. Considering the health and socioeconomic implication of high fertility, the prevalence of fertility intention among women who already have more than four living children can be considered as high. One may find it difficult to disentangle factors surrounding such intention among the women, but our study clearly revealed that gender preference and sex composition of the living children are important factors to reckon with. The result of multivariate is evidenced that strong influence of gender preference and sex composition of the living children Christian counterparts.<sup>4,5,31</sup> Also, in selected setis found when other socio-demographic factors were tings in four Asian countries, it was found that Musused as control. As shown in the previous paragraphs, gender preference is still widely practiced in Malawi and as such, women might decide to continue to bear more children until they have their desired sex or sex composition. Other studies in similar settings corroborate our It is striking that the likelihood of women in the poorfindings.23,24

For instance, a study conducted in Pakistan revealed that the sex of surviving children was strongly correlated with subsequent fertility and contraceptive behaviour.24

Although, slight variation exists between the regions in Malawi with respect to intention to bear more children, women living in the Central Region were less likely to signify intention for more children than any other regions across the country.

Our study further shows that highly empowered women were less likely to have intention to have more children than those women who were either less empowered or not empowered. In Malawi's context, those who are less empowered see childbearing as contribution to Malawi. This will assist family planning experts in their the society, the more children they have the more they have achieved. The finding is expected as highly empowered women are often more likely to have con-

tion to stop childbearing having achieved their desired fertility. Researchers have explored the association between women's empowerment, contraceptive use and fertility. Findings from these studies reveal that women's empowerment is significantly related to modern contraceptive use and lowers fertility.25,26,27,28 Consistent evidence from previous studies have also revealed that women's empowerment is a link through which education influences fertility.<sup>29,30</sup>

Other identified predictors of fertility intention in this study were; religion, marital duration and wealth quintile. For example, the likelyhood of intention to bear more children was higher among Muslims than Christians. Also, differential existed between the Muslim and Catholic women as Muslim women were about twice more likely to show intention to bear more children than Catholic women. This finding is in agreement with the outcome of previous studies conducted in Malawi and other parts of sub-Saharan Africa where Muslim women consistently have higher fertility than their lim wives usually have more children, are more likely to desire additional children, and are less likely to be using contraception when they desire no more children.<sup>32</sup>

est wealth quintile who wanted more children after having at least five children was approximately three times of those in the richest wealth quintile. In Malawi context, this is expected as most of the poorest women are less educated and live in the rural areas where family planning information is limited and at times not accessible. This argument was the reason for high fertility among women in Africa as found in a study by Andreea et al., where after adjustment for fertility intention, women in the richest wealth quintile were more likely than those in the poorest quintile to practice long-term contraception.<sup>33,34</sup> Cultural practices that are challenges to achieving reproductive health goals including child preference are more common among poorest women than the richest. Further research most especially qualitative study may be needed to identify the reasons while poorest women have more interest on childbearing in quest for addressing issues of fertility reduction in Malawi and other countries of similar demographic characteristics.

## Limitation

We focused on 1,739 women (based on the exclusion criteria set for this study) from the 23,020 women inassociation of Malawi in population and reproductive cluded in the original sample. Therefore, the findhealth programs should be strengthened. ings from this study might be incomparable to fertility intention expected among all Malawian women. In As found in this study, more women reported that they addition, secondary data source was used for this study, prefer female children to males. In African context, as such; problems associated with the use of secondary where most studies have reported son's preference, this finding seems to be striking; we therefore suggest qualidata cannot be completely overruled from the results of our analysis. For instance, some contextual variables tative research to explore reasons for such deviation in were not captured in the original sample thus limiting Malawi. their inclusion in our analysis. Also, gender preference as one of the key variables analyzed in this study was created as a proxy using information on ideal number Acknowledgements of males and females children reported by the wom-The authors are grateful to Macro-International U.S.A en included in this study. There might be possibility of and National Population Commission for allowing us slight disparity between our finding and the true situto use their data (NDHS, 2008) for this study. ation if question on gender preference was originally included in the questionnaire used for the survey.

# Conclusion

Child's gender preference is still common in Malawi 2. National Statistical Office (NSO) and ICF Macro. and higher preference for female child was reported. Malawi Demographic and Health Survey 2010. Zomba, Gender preference and same sex composition were the Malawi, and Calverton, Maryland, USA: NSO and ICF major reasons responsible for women's intention to Macro. bear more children after having five living children. Al-3. National Statistical Office (NSO) and ICF Macro. though, numerous factors were found to be associated Malawi Demographic and Health Survey 1992. Zomba, with fertility intention among the women studied but Malawi, and Calverton, Maryland, USA: NSO and ICF the identified predictors were gender preference, sex Macro. composition of the living children, region, age, marital 4. National Statistical Office (NSO) and ICF Macro. duration, women empowerment and religion. Strat-Malawi Demographic and Health Survey 2000. Zomba, egies to eradicate child's gender preference should Malawi, and Calverton, Maryland, USA: NSO and ICF be developed in Malawi. This must be exercised within Macro the framework of the sexual and reproductive rights of 5. National Statistical Office (NSO) and ICF Macro. Malawi Demographic and Health Survey 2004. Zomba, women. Malawi, and Calverton, Maryland, USA: NSO and ICF The existing policy in Malawi says that couples should Macro

decide on the number of children they want, however, 6. Kana F. Variations in attitudinal gender preferences the available statistics indicate that the ideal number of for children across 50 less-developed countries. Demochildren a woman should bear is four;<sup>2,3,4,5</sup> it is theregraphic Research: 2010; Vol. 23, Article 36 Descriptive fore tempting to argue that the family planning poli-Findings http://www.demographic-research.org 1031 cy makers should advocate that each woman must not 7. Perianayagam A. Gender preference, contraceptive have more than four children. In addition, the family use and fertility in India: regional and development planning programme should assist couples or individual influences. International Journal of Population Geography women to achieve this demographic goal by encourag-2002;Vol.8,(1):49-67 ing all women who have four living children to start 8. Choe MK. Son preference, family building prousing long acting/permanent method irrespective of cess and child mortality, in: UN Secretariat, ibid., the gender composition of the living children or wom-1998; pp. 208-222. an's age. Since religion is one of the identified predic-9. Higginson MT and Aarssen LW. Gender bias in off-

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tors of childbearing intention found in this study, engagement of such institutions as Muslim and Christian

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