ORIGINAL RESEARCH ARTICLE

Knowledge, Perception and Level of Male Partner Involvement in Choice of Delivery Site among Couples at Coast Level Five Hospital, Mombasa County, Kenya

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Abstract

Involvement of males in reproductive health is an important step in reducing maternal and newborn deaths. A number of pregnant women attending Coast Level Five Hospital report waiting for their male partner to discuss and choose the delivery site. Although some do this when already in labour , there are no records on how many practice this and the influence of the couple knowledge and perception on male partner involvement in choice of delivery site. This descriptive cross-sectional study aimed at establishing the level of male partner involvement and influence of couple knowledge and perception on male involvement in choice of delivery site. This descriptive cross-sectional study aimed at establishing the level of male partner involvement at this facility. Systematic sampling was used to select the participants. A semi-structured questionnaire and focus group discussion guide were used to collect data. Chi-square and binary logistic regression were used for statistical analysis. 40.6% of male partners were involved in choice of delivery site, women knowledge (χ 2-19.256; df-1; p<0.001), women (χ 2-11.347; df-1; p=0.001) and male partners' perception (χ 2-10.909; df-1; p=0.001) influenced male partner involvement. However, women knowledge was the only predictor of male involvement (OR-3.843; 95% CI, 2.082-7.092; P<0.001). Male partner involvement was low, empowering women and encouraging positive perception among women and male partners will enhance male partner involvement in choice of delivery site. The health workers in Mombasa should come up with health education and communication strategies to improve public knowledge and perception towards male involvement and ultimately improve the level of male partner involvement in choice of delivery site. (*Afr J Reprod Health 2016; 20[1]: 71-79*).

Keywords: Coast Level Five Hospital, Male involvement, Choice of delivery site, Mombasa Kenya, Male partner, Knowledge and perception.

Résumé

La participation des hommes à la santé de la reproduction est une étape importante dans la réduction de la mortalité maternelle et néonatale. Un certain nombre des femmes enceintes fréquentant l'Hôpital Coast Level Five signalent avoir attendu leur partenaire masculin pour discuter et pour choisir le lieu d'accouchement. Bien que certaines ne le fassent que quand elles sont déjà en travail, il n'y a pas de dossiers sur le nombre des femmes qui la pratique, et l'influence de la connaissance du couple et la perception sur la participation des partenaires de sexe masculin dans le choix du de lieu d'accouchement. Cette étude transversale descriptive s'est donnée comme objectif d'établir le niveau de la participation des partenaires de sexe masculin et l'influence de la connaissance chez les couples et la perception sur la participation des hommes au choix du lieu d'accouchement au sein des femmes qui ont accouché dans cet établissement. L'échantillonnage systématique a été utilisé pour sélectionner les participants. Nous nous sommes servi d'un questionnaire semi-structuré et un guide de groupe de discussion cible pour recueillir des données. Le Chi-carré et la régression logistique binaire ont été utilisés pour l'analyse statistique. 40,6% des partenaires masculins ont participé au choix du lieu d'accouchement, la connaissance chez les femmes (χ^2 -19.256; df-1; p <0,001), les femmes (χ^2 -11.347; df-1; p = 0,001) et la perception des partenaires masculins (χ^2 -10,909; df-1; p = 0,001) influencé la participation du partenaire masculin. Cependant, les femmes connaissances était le seul facteur prédictif de la participation des hommes (OR-3,843; IC à 95%, 2,082 à 7,092; P <0,001). La participation des partenaires hommes était faible, l'autonomisation des femmes et l'encouragement d'une perception positive chez les femmes et chez les partenaires masculins permettra d'améliorer la participation des partenaires des hommes au choix du lieu d'accouchement. Le personnel de santé à Mombasa devrait élaborer des stratégies d'éducation et de communication sur la santé pour améliorer la connaissance et la perception de la part du public envers la participation des hommes et, d'améliorer, en fin de compte, le niveau de la participation des partenaires de sexe masculin au choix du lieu d'accouchement (Afr J Reprod Health 2016; 20[1]: 71-79).

Mots-clés: Hôpital Coast Level Five, participation des hommes, choix de lieu d'accouchement, Mombasa Kenya, partenaire masculin, connaissance et perception.

Introduction

Globally, many women die every day from pregnancy- or childbirth-related complications. For instance, in 2010, 287,000 women died during and following pregnancy and childbirth with 99% of these deaths occurring in developing countries such as Kenya with maternal mortality ratio of $488/100,000^2$, with Involvement of males in reproductive health is an important step in reducing maternal and newborn deaths and for achieving Millennium Development Goals (MDGs) 4 and 5³. Men's involvement promotes safety of their female partners' pregnancy and childbirth by ensuring access to care and provision of emotional and financial support⁴ and more birth preparedness⁵. In addition, men have social and tremendous control over their partners. They decide the timing and conditions of sexual relations, family size and whether their spouse will utilize available health care services⁴. Therefore this makes male involvement critical in improving maternal health and reducing maternal mortality and morbidity.

Many countries have not developed largescale programs that reach out to men. In Cambodia for instance male involvement in reproductive health is underdeveloped⁶ while in Africa, the role of men in maternity care is under-studied⁷. However, studies show different proportions of male involvement in choice of delivery site. For instance, in Ethiopia one study established high involvement (90.4%)⁸. In Senegal, a study showed that 52% of the decisions on delivery site were made by the husbands⁹. In Uganda, a study in south western Uganda indicates that 56% of male partners were involved in deciding spouses' place of delivery¹⁰. In Kenya, the Kenyan Demographic and Health Survey (KDHS) 2008/2009 reported that 73% of women either made their own decision, or a joint decision with regard to health care². However, in Nyandarua Kenya, 58.4% of the women interviewed had their place of delivery decided by their husbands¹¹. While a study at Asembo Kenya revealed that majority of the women (87%) made decisions on delivery site on their own¹². Despite the positive contributions of male involvement in tackling maternal mortality and morbidity, little is known on their level of

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involvement in this study area.

Studies have shown that lack of knowledge about maternal health pose a significant challenge to involvement¹³⁻¹⁴. Other positive male partner studies have reported negative perceptions towards men attending ANC services¹⁵. In countries such as Nepal, demeaning phrases to tease and ridicule men who are involved in RH activities have been coined^{13,14&16}. For example. phrases such "swasniko mutma bageko", or a man being "swept away by the urine of the wife" are used to describe a man who takes orders from a wife^{13.}

In Cameroun, fear of being perceived as a jealous husband following his wife around was one of the reasons for lack of involvement in ANC services¹⁷. In a study in Malawi, it was found that women considered childbirth as a preserve for women only¹⁸. Men in Western Kenya rarely accompany their partners to the RH clinics, a fact attributed to low awareness, and lack of male reproductive health education programs¹⁶ while in Busia Kenya, majority of men regarded delivery as a natural phenomenon and hence saw no need of being involved¹⁴. This study reports the level of male partner involvement in choice of delivery site, the influence of couple knowledge and perception on male partner involvement in choice of delivery site among couples at Coast Level Five Hospital.

Materials and Methods

Study design, settings and population

This descriptive cross-sectional study was conducted at the post-natal ward (PNW) at Coast Level Five Hospital, Mombasa County, Kenya. Coast Level Five Hospital is a 672 bed capacity hospital situated at Tononoka area in Mombasa County along Mombasa -Kilifi highway. It was founded in 1908 as a native civil hospital. It serves about 800,000 within its primary catchment area and more than 3 million from the secondary catchment area. It is the main teaching and referral hospital in Coast region. The study participants comprised eligible women who delivered at Coast Level Five Hospital, Mombasa County and their male partners during the duration of the study from January to February 2015.

Study variables

The study variables comprised level of male partner involvement, couple Knowledge and perceptions and their influence on male partner involvement in choice of delivery site. The respondents' knowledge was assessed based on their knowledge of the concept of male partner involvement in choice of delivery, awareness of the need for male involvement, whether it is necessary and its benefits. Perception of the respondents was measured based on how they perceived male partners accompanying the spouses to ANC, discussing maternal health issues (FP, ANC etc.), participating in choice of delivery site, and escorting the spouse to the chosen delivery site.

Sample size, sampling and data collection tools

The sample size consisted of 207 couples. Only couples where the women delivered at Coast Level Five Hospital were included in the study. Systematic sampling was used to select the respondents. А semi-structured interviewer administered questionnaire was used to collect quantitative data. The questionnaire comprised items on socio-demographic characteristics, the role played by the male partner in choice and access of delivery site and couple knowledge of male partner involvement and their perception towards male involvement in selected reproductive health activities. A focus group discussion guide was used to collect qualitative data. A pre-test was carried out at Port Reitz District Hospital involving 10 couples.

Data collection

Data was collected in January and February 2015. Four third year nursing students from Kenya Medical Training College (KMTC) Mombasa campus were recruited to assist in data collection. The third year nursing students were chosen because they had covered research methodology in their course and were therefore easy to train. In addition, they were in rotation in maternity. The training covered overall research design, communication skills, interviewing and recording information, how to obtain informed consent and ethics in research.

Semi-structured interviews were conducted at the postnatal ward after explaining the study in detail and obtaining consent. The interviews for women and male partners were conducted separately to avoid influence from either party in responding. A Separate focus group discussion was conducted for the women who had delivered and admitted at the post-natal ward and male partners who met the inclusion criteria. Each focus group discussion had 6 members each. The FGDs were done after the administration of the questionnaires. The participants of the FGDs were different from those who were interviewed. The FGDs were carried out at the lactation centre at maternity for the women and at Coast Level Five Hospital boardroom for male partners respectively. The FGDs were moderated by this researcher and a research assistant who assisted with tape recording and note taking. A focus discussion guide was used when conducting the discussions. The discussions concentrated on the role played by the male partner in choice and access of Coast Level Five Hospital as the choice of delivery site, knowledge and perception. Each FGD lasted one and half hours.

Data analysis

Data was analysed using SPSS version 20.0 manufactured by IBM, in Armonk, New York USA. Knowledge was measured based on respondents' scores from a set of questions in which the correct response was awarded 1 score and none for a wrong response.

Perception level was determined based on the respondents' perception of male partner involvement in the four RH-related activities using the likert scale. The likert scale had scores ranging from 0=strongly disagree to 5=strongly agree. The cumulative scores of women and male partners on knowledge and perception obtained separately were used to calculate the mean scores; which were in turn used as a cut-offs. Scores that were equal to or above the respective mean were regarded as good knowledge and positive perception respectively, and vice versa.

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 Table 1: Couples Knowledge of Male Partner Involvement in Choice of Delivery Site and its Benefits

	aning, awareness and importance of male partner involvement	Women	Male partners
(N=	=207)	No (%)	No (%)
1.	The meaning of male partner involvement in choice of delivery site		
a)	The male partner alone deciding the site of delivery	73 (35.3)	65 (31.4)
b)	The couple discussing, jointly choosing the site and the male partner	· · · ·	× ,
	providing logistical support to access the site	107 (51.7)	118 (57.0)
c)	The male partner and his brothers and parents deciding the site	5 (2.4)	4 (1.9)
d)	The woman deciding alone and informing the male partner	22 (10.6)	6 (2.9)
e)	No idea	0 (0.0)	14 (6.8)
2.	Aware of the need to have male partners involved in choice of delivery		
	site		
a)	No	8 (3.9)	14 (6.8)
b)	Yes	199 (96.1)	193 (93.3)
3.	It is necessary /important to involve male partners in Choice of the		
del	ivery site		
a)		5 (2.4)	8 (2.4)
b) \		202 (97.6)	199 (96.1)
	The importance/benefit of male partner involvement in choosing the ivery site		
a)	Not stated /involvement unnecessary	14 (6.7)	25 (12.1)
u) b)	For logistical support before and after delivery e.g. money & transport	36 (17.4)	30 (14.5)
			· /
c)	In case of problems/complications he can assist early enough	57 (27.5)	31 (15.0)
d)	For safe and quality services during delivery as he will follow the labour	13 (6.3)	42 (20.3)
	progress and assist as necessary	45 (21.7)	44 (21.3)
e)	The male partner is household head this is done as a sign of respect	чэ (21.7)	++ (21.3)
f)	Pregnancy and childbirth is a responsibility for both and for good outcome,		30 (14.3)
-)	the male should be involved	39 (18.8)	23 (11.5)
``		3 (1.4)	3 (1.4)
g)	The male partner is more knowledgeable and is able to help		
h)	It makes it easy to follow advice given by health workers	0 (0.0)	2 (1.0)

Frequencies were used to describe the findings. Chisquare was used to test the association between knowledge and perception and level of male involvement. Logistic regression was used for estimating association of potential predictors of male partner involvement. The findings were presented using tables, bar graphs, pie charts and text.

The qualitative data that was tape-recorded was transcribed and analysed for content with similar categories grouped into sub-themes and themes. Results were presented as direct quotes from participants or as narrations. These results were finally triangulated with the quantitative data. All p-values ≤ 0.05 were considered statistically significant.

Ethical considerations

Ethical clearance was obtained from Kenyatta University ethics review committee (KU-ERC) and a research permit was obtained from National Commission for Science, Technology and Innovation (NACOSTI). The hospital management gave permission to conduct the study at the hospital. Informed consent was obtained from all respondents who participated in the study. Confidentiality was maintained throughout the study by ensuring anonymity of the study respondents' information.

Results

Socio-demographic characteristics of the study participants

Most women (73.9%, n=153) were aged 20-30 years while 16.9% (n=35) were aged 31-40 years and 9.2% (n=19) were aged below 20 years. For male partners, most of them (55.6%, n=115) were within 20-30 years, 35.3% (n=73) were between 31-40 years with 9.1% (n=19) aged over 40 years. Of these women, 50.7% (n=105) had primary education and below while 39.1% (n=81) of male partners had secondary education level. Most women (65.7%,

n=136) earned below kshs.5000 while most male partners (29.0% n=60) earned between kshs. 5000-kshs.10000.

Level of male partner involvement in choice of delivery site

Regarding male partners' involvement in choice of delivery site, 40.6% (n= 84) of women and male partners 40.6% (n=84) reported that the male partners were involved in discussing and jointly choosing the delivery site and the male partner supported their spouses to access the chosen delivery site. In the context of this study, 40.6% of the male partners were therefore involved in choice of delivery site.

Influence of knowledge and perception on male partner involvement in choice of delivery site

The responses of women and their male partners on the meaning of male partner involvement, awareness of the need for male involvement, whether it is necessary to involve male partners and the importance of involvement in choice of delivery site were used to assess their knowledge of male partner involvement in choice of delivery choice. Table 1 shows that although most women and male partners were aware of the need for male involvement, agreed that it was necessary, there were variations on their understanding of what male partner involvement entails and the importance of male partner involvement in choice of delivery site.

Each correct response to each question was awarded a score and zero for incorrect responses. The women and male partners' cumulative scores were used to obtain their mean scores separately. Their mean scores were 3.15 and 3.12 for women and male partners respectively (max.4). Those _ women and male partners whose cumulative score was below their respective mean were regarded as lacking adequate information on male partner involvement in choice of delivery choice- hence had poor knowledge of male partner involvement and vice versa. Based on the above criteria, this study established that 60.1% (n=126) of the women and 62.3% (n=129) of the male partners interviewed had poor knowledge of male partner involvement in choice of delivery site. In both FGD's. poor knowledge of male partner involvement in choice of delivery site was established. For instance, one woman participant understood it to mean "The male partner should

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The effect of couple knowledge on male partner involvement

The effect of the level of women and male partners' knowledge on male partner involvement in choice of delivery site is presented in Table 2. The study established that women knowledge significantly influenced male partner involvement in choice of delivery site with 59.3% (n=48) of male partners involved in choice of delivery site when the women had good knowledge (χ 2-19.256, df-1, P<0.001). However, this was not the case for male partners' knowledge.

Couple perception of male partner involvement in RH activities

In order to ascertain the respondents' level of perception on male partner involvement in choice of delivery site, the respondents were asked to give their perception of male partners involved in selected reproductive health (RH) activities: accompanying the spouses to ANC, discussing maternal health issues (FP, ANC etc.), participating in choice of delivery site and escorting the spouse to the chosen delivery site as shown in Table 3. Scores on the four activities were used to determine their perception level following the steps used in assessing knowledge.

Table	2 :	The	Level	of	Won	nen	and	Male	Partners'	
Knowle	edge	e and	Male	Part	tner I	nvol	veme	nt in	Choice of	
Deliver	y S	ite								

	Male involvement									
Level of knowledge	Not involved n (%)	Involved n (%)	X	df	р					
Women										
knowledge										
Poor	90 (71.4)	36 (28.6)	19.25	1	<0.0					
knowledge			6		01					
Good	33 (40.7)	48 (59.3								
knowledge										
Male										
knowledge										
Poor	81(62.8)	48 (37.2)	1.613	1	0.20					
knowledge					4					
Good	42 (53.8)	36 (46.2)								
knowledge										

partner This study revealed that 76.0% (n=158) of the women and 67.0% (n=138) of male partners ricipant interviewed had negative perception of male partners' involvement in selected RH activities. In *African Journal of Reproductive Health March 2016; 20 (1):* 75

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Table 3: Perception of Couples of Male Involvement in Selected RH Activities (N=	=207)

	Strong Disagr n (%)	ee	Disagr n (%)	ee	Undec n (%)	ided	Agree n (%)		Strong Agree n (%)	ly
The male partner should:	W	М	W	Μ	W	М	W	М	W	Μ
1. Accompany the spouse to ANC.	0 (0.0)	4(1.9)	8 (3.9)	10 (4.8)	8 (3.9)	19 (9.2)	157 (75.8)	116 (56.0)	34 (16.4)	58 (28.0
2. Discuss maternal health issues (FP, ANC etc).	0	6	3	3	6	6	160	134	38	58
	(0.0)	(2.9)	(1.4)	(1.4)	(2.9)	(2.9)	(77.3)	(64.7)	(18.4)	(28.0
3. Participate in choice of delivery site.	0	6	5	3	3	7	176	143	23	48
	(0.0)	(2.9)	(2.4)	(1.4)	(1.4)	(3.4)	(85.0)	(69.1)	(11.1)	(23.2
4. Escort the spouse to the delivery site.	0	7	7	5	2	8	166	126	32	61
	(0.0)	(3.4)	(3.4)	(2.4)	(1.0)	(3.9)	(80.2)	(60.9)	(15.5)	(29.5

W= *Women M*- *Male partners*

 Table 4: Influence of couple perception on male partner involvement

	Male involve	ement (N=207))		
Level of perception	Not involved n (%)	Involved n (%)	χ	df	р
Women perception					
Negative perception	104 (65.8)	54 (34.2)	11.347	1	0.001
Positive perception	19 (38.8)	30 (61.2)	11.347	1	0.001
Male perception	. ,	. ,			
Negative perception	93(67.4)	48 (32.6)	10,000	1	0.001
Positive perception	30 (43.5)	39(56.5)	10.909	I	0.001

Table 5: Logistic regression of predictors of male partner involvement

	В	S.E	Wald	df	Sig.	Exp (B)	95% CI	
							Lower	Upper
Women knowledge	1.346	.313	18.538	1	.000	3.843	2.082	7.093
Male partner perception	083	.338	.061	1	.805	.920	.474	1.784
Women perception	276	.362	.582	1	.445	.759	.374	1.542
Constant	476	.406	1.375	1	.241	.621		

contrast, most participants in both FGD's had positive perception of male involvement in these RH activities. However, some women reported negative perception and branding of those men who were involved in RH activities with demeaning phrases. For example one participant from Kisauni subcounty said

> "The husband's family members see you as controlling the husband and so he listens to you more".

The role of the level of couples' perception on male partner involvement

As shown in Table 4, the level of women and male partners' perception played a significant role on male partner involvement in choice of delivery site (χ 2-11.347, df-1 p=0.001 and χ 2-10.909, df-1, p=0.001) respectively. Where women and male partners had positive perception of male partners' involvement in selected RH activities, 61.2% and 56.5% of the male partners respectively were involved in choice of delivery site.

Predictors of male partner involvement in choice of delivery site

To establish the determinants of male partner involvement in choice of delivery site, logistic regression was performed on variables that were significant on chi-square i.e. women knowledge and women and male partners' perception. The study results showed that among these variables, only women knowledge was a predictor of male partner

involvement (OR- 3.843, 95% CI- 2.082- 7.092, p<0.001). This implies that improving women knowledge from poor to good, the odds ratio for male partner involvement in choice of delivery site will increase by 3.8 times.

Discussion

Waiting for the male partner to make a decision on delivery site leads to unnecessary delay in access or lack of utilization of skilled birth attendance worsening the already high maternal mortality. However, with early male involvement enables men to support their spouses to utilize emergency obstetric services early, adequately prepare for birth and ready themselves for complications. This can lead to a reduction in all the three phases of delay (i.e. delay in making decision to seek care, delay in accessing the care and delay in receiving the care)¹⁹. In addition, it has also been argued that reducing maternal deaths by 75 % throughout the world by 2015 will take the involvement of men in countries where it matters most¹. This study revealed that although the male partners are key decision makers and financial providers, most decisions on choice of delivery site and accessing it are made without their participation. This suggests that pregnant women are left on their own to decide and access the delivery site though in many cases they have little control over finances hence likely to experience delays or fail to access skilled birth attendance. This could be attributed to lack of programs that reach out for men hence many men may not be aware why and how they need to be involved, viewing delivery issues as women's affair, a feeling of embarrassment by male partners when participating and culturally defined gender roles in many countries may hinder male participation⁶. In addition, it may also be due to low education level especially among women making it difficult to comprehend health messages, follow them or even share them with their male partners. This is consistent with results of studies done in Uganda¹⁰, in Kenya¹¹ and in Senegal⁹. However, it differs significantly with studies conducted in Kenya² and in Ethiopia⁸. The differences could be attributed to narrow definition of male partner involvement in these other studies whereby they viewed male involvement as just making a joint decision on site of delivery unlike in this study where male partner involvement includes making a

joint decision on the site of delivery and facilitating the woman to access the delivery site. Therefore Knowledge, Perception and Male Involvement there is a need to promote male partner involvement to reduce these delays and promote skilled birth attendance.

Educating women and their spouses about the complications of pregnancy and child birth leads to increased uptake of maternal and child health services¹³. This study established that most women (60.1%) and most male partners (62.3%) had poor knowledge of male partner involvement in choice of delivery site and its benefits. This is possibly as a result of low standards of education and poor or lack of programs with deliberate efforts to create awareness in the community on male partner involvement in child birth-related activities. In addition, health education on male involvement may not be given the priority it deserves during routine ANC health talks. These findings are in agreement with those of a study in Kenya¹⁴ and in Nepal¹³. Furthermore, this study revealed that poor women knowledge of male involvement and its benefits was a hindrance to male partner involvement. This is true women most often attend because ANC unaccompanied by their spouses and if they know little about male partner involvement, they will have nothing to share with their partners after the ANC attendance or simply put they can't share what they know little or completely don't know. This result supports findings of a study in Nepal¹³ and findings of a study done in Busia, Kenya¹⁴. Therefore there is need to empower women with adequate and accurate knowledge on male partner involvement and its benefits to improve male partner involvement in not only choice of delivery site but also in other maternal and neonatal health issues. Several studies have reported negative perceptions towards men attending ANC services. Frequently, men perceive that ANC services are designed and reserved for women, thus are embarrassed to find themselves in such "female" places¹⁵. Consistent with poor knowledge, most women and their male partners in this study had negative perception of male partner involvement in reproductive health activities. Negative perception could be due to the view that delivery is a natural phenomenon, fear of ridicule and lack of knowledge especially among men¹⁴, and may be because of poor knowledge of male partner involvement and its benefits among the respondents as significant proportions of both women and male partners' had poor knowledge (60.1% and 62.3%, respectively). This finding is consistent with findings

respectively). This finding is consistent with findings of a study in Kenya¹⁴ where poor perception was also established.

Negative perception of male partners involved in RH activities posed a challenge to male partner involvement. This is in tandem with results of a study in Nepal where the researcher argued that ridicule and teasing a male when trying to get involved might discourage him¹³, with results of a study in Busia, Kenya where the researchers argued that many men regarded delivery as a natural phenomenon and saw no need to be involved¹⁴. Other researchers argued that fear of being viewed as a jealous husband may make a man not to be involved in ANC¹⁷. As shown in a study in Asembo Kenya some men view male involvement in delivery issues as less important compared to striving to achieve economic wellbeing of the family¹². Women perceiving child birth as a women affair that does not require male partner involvement may contribute to low male partner involvement as established by 18 . (This can be viewed as some of the negative perceptions held by male partners). Fear of being ridiculed by the community members, being branded some demeaning phrases may lead to negative perception¹⁸. These negative attributes were particularly expressed during FGD. A member of the FGD said "the husband's family members see you as controlling the husband and so he listens to you more". Such negative attributes will make many male partners to avoid being involved. In Nepal family members ridiculed and teased a male partner when trying to be involved in maternal health and were discouraged by this^{13.} Furthermore, several Nepali phrases or idioms had been coined for husbands who were viewed as 'too' supportive or involved with their wives¹³ Knowledge of male partner involvement in choice of delivery site, its benefits and perception of male involvement in RH activities have some influence in male partner involvement in choice of delivery site. There is need for practical and locally acceptable strategies to improve the knowledge and address the negative perception to improve male partner involvement.

This study has several limitations. Firstly, it was conducted in a health facility and therefore the results may be different from those of a community based study. Secondly, the respondents were interviewed after the women had delivered. The outcome of the pregnancy to some extent might have influenced the participants' responses and hence the findings. Nevertheless, this study provides some useful evidence that can be used as a basis for promotion of male partner involvement in choice of delivery site.

Knowledge, Perception and Male Involvement **Conclusion**

This study established low male partner involvement in choice of delivery site. In addition, most participants in this study had poor knowledge of male partner involvement in choice of delivery site and negative perception of male partners involved in reproductive health activities. This implies knowledge gaps that need to be addressed. Furthermore, poor women knowledge and negative perception of both the women and male partners hindered involvement of male partners in choice of site. deliverv Therefore these researchers recommend that the management of Coast Level Five Hospital and Mombasa County government should come up with strategies and Programs that will promote male involvement in reproductive health by creating awareness on the benefits of male partner involvement through various modalities such as mass media, health talks at ANC, providing information, education and communication materials and community outreaches.

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Conflict of Interest

The authors' declare no conflict of interest in relation to this study.

Contributions of Authors

James M. Onchong'a conceived the study idea, prepared the data collection tools and collected data. Tom Were and Justus O.S. Osero participated in data analysis and reviewed the manuscript.

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