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Preferences of Iraqi Women Regarding Mode of Delivery

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Abstract

There are many theories about how delivery should be, many factors affecting the preferences of women regarding their mode of delivery, this study aimed to assess the preferences of 428 Iraqi women about what they preferred as a mode of delivery and to evaluate the contributing factors that may affect their choices. Women were enrolled and data collected during 2016 - 2017, in Baghdad Iraq from main two hospitals and private clinic. The study concluded that majority of the studied group preferred the vaginal delivery than CS. Preferences of women were significantly affected by their age, education, parity, occupation and income. Previous experience, cultural factor, hospital factors and quality of services among, advices from family or nurses among the main determinant of mothers choices.

Introduction

The natural way to act at the end of a pregnancy is natural birth and only proceed to perform a cesarean section in certain situations. However, there are many theories about how delivery should be, as well as many doctors in favor of cesarean and many other advocates of natural childbirth. It should be noted that vaginal delivery is a natural process, the woman's body is hormonally and mechanically prepared to be able to carry it out even without medical intervention (Loke and Davies 2015; Loke, Davies, and Li 2015). However, there may be unforeseen events at the time of delivery that require professionals to make the decision to perform a cesarean section such as abnormal heart rate of the baby, position of the baby that hinders natural childbirth, problems of the baby's development such as spina bifida or hydrocephalus, some cases of multiple pregnancy, genital infection of the mother, placenta

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previa or placental abruption and prolapse of umbilical cord which all considered as indications for cesarean section, in general, any situation that endangers the life of the baby or the mother will be indicative for a cesarean section(Ahmed, Alsheeha, and Alsammani 2013; Molina-Sosa et al., 2004) On the other hand, there are women who prefer to give birth by cesarean because they are afraid of pain or for other reasons, but it must kept in mind that recovery is much worse than with natural birth. In addition, women with caesarean section will need help and assistance from relatives during the first days, either for daily routines or to care for the newborn. In any case, at the time of delivery, health of both the future baby and the mother should be taken into account (Mazzoni et al., 2016). A woman's preference for delivery by caesarean section influenced their subsequent mode of delivery. Asking women in early pregnancy about their preferred mode of delivery provides the opportunity to extend their supports which

might reduce the rate of elective caesarean section (Rajabi *et al.*, 2016; Zamani-Alavijeh *et al.*, 2017)

Globally, giving birth through natural process, 'vaginal birth' has been widely accepted as the most preferred delivery even when medically indicated caesarean section mode. On the other hand, advances in technology and its adoption in the provision of reproductive health care has resulted in an increase in the number of cesarean deliveries in recent years. This has increased the options preferred mode of administration for mothers and resulted in a significant reduction in mortality and neonatal and maternal morbidity. (Molina-Sosa et al., 2004; Mone et al., 2014). However, each year, 358,000 women die worldwide from pregnancy-related causes, and many women die from obstetric complications (WHO, 2010). Hence, every woman has the human right to the best possible care during pregnancy, childbirth and postpartum to ensure their survival and that of her newborn (COK 2010). Despite this fact, approximately million women suffer pregnancy-related eight complications and over half a million die each year despite these deaths are preventable (WHO, 2013). Many mothers refuse to accept CS because of its associated adverse effects compared with vaginal delivery including high surgery costs, slower recovery of women, increased risk of adverse events in subsequent pregnancies and increasing the rates of complications such as infection, injury to nearby organs, and death (Lumbiganon et al., 2010). On the other hand, the CS is preferred by women who fear the pain associated with vaginal delivery. Preferences of women are reported by type of delivery to be influenced by culture, knowledge of the risks and benefits, and personal and social factors (Nasir 2017).

Cesarean section acceptances is expected to be more difficult. Progress in delivery care, including the use of CS has resulting in significant reduction in mortality and morbidity to both mothers and their neonates. However, evidence to support this belief is limited (WHO, 2010). Nonetheless, spontaneous vaginal delivery is generally regarded as indicative of natural birth or normal for many mothers feel they do not require medical intervention (Fatemeh, 2014). The relevance of this result was confirmed by previous studies, which revealed that despite the increasing caesarean section rate, most women showed more favorable toward vaginal delivery. Preferences of women toward the mode of delivery are affected by different factors including the cultural, religious, financial in addition to medical factors. For instance, almost 66% of Turkish women preferred vaginal delivery, considered as a natural and acceptable

which is not fully guaranteed in hospital births, many Muslim mothers refuse to be treated by male staff mentioning the beliefs and practices that increase the motivation for cultural home delivery. Because of this desire for normal delivery, many lose the benefits of hospital-based deliveries as a treatment for any infection associated with birth, providing professional advice on the care of a newborn and postnatal support (Bryanton et al., (2008)). Furthermore, many women believe that spontaneous vaginal delivery is physical, mental, psychological and emotional experience, which gives mothers the strength to cope with childbirth with added confidence as being a natural process expected. Consequently, women associate pain as a natural expectation, adds to her maternal attachment, strength and love. This experience is perceived as an affirmation of successful female role play as expected mother. They sometimes even prefer to deal with the pain using nonpharmacological methods with minimal assistance Maharlouei et al., (2013), From other point of view, cesarean delivery is perceived by some women as a better form of delivery because of its association with birth pangs absence (Lavender et al., 2012). This makes women have no fear of childbirth. They are also encouraged by the safety of the procedure, the speed of the process and the possibility of having a tubal ligation while also positive value associated with this mode of birth. Many have ended up with very nice experience and have enjoyed the process safety (Lavender et al., 2012). Therefore, there are many determinants. Affecting the choices of for the mode of delivery, of these Socio-demographic factors determinants. play а significant role in the mode of delivery options. Maternal age is one of the factors shown to determine the choice of mode of delivery which older mothers prefer vaginal delivery Dharmalingam et al., (2010), Regassa (2011). Accessibility to medical services and trained health care providers in medical services. (Klemetti et al., 2012), Education also has been positively associated with other aspects of maternal care such as prenatal and postnatal care. For example, women with more than primary-level education are more likely to use antenatal care than people without education (Dairo and Owoyokun 2010). (Arthur 2012). Good prenatal care can provide reliable information and support that can influence better choices of modes of delivery at the time of delivery, including delivery plan preparation (Arthur, 2012). Preference for vaginal delivery was also observed among rural women

mode of delivery, they considered cesarean delivery as a

risky procedure. This in turn increases the rate of home births in Turkey Arikan *et al.*, (2011). In the Muslim community, women prefer home delivery due to privacy (Tsegay *et al.*, 2013). Due to the relatively poor infrastructure such as roads and clinics in rural areas, it is expected that the use of cesarean section for pregnant women will be lower compared to those living in urban areas (Hajian *et al.*, 2015). Urban women are more likely to prefer the use of cesarean delivery mode versus vaginal delivery. Preference for cesarean delivery among urban residents can be attributed to the easy accessibility of health services and access to better information on obstetric care.

Financial constraints and lack of social support structures may limit access to maternal health services quality. Economic stability is an important factor in health care delivery and utilization aspect. Nevertheless, socioeconomic barriers continue to limit access especially among the poor worldwide. A global study conducted in more than 50 countries showed that, on average, more than 80% of Caesarean births were among wealthy women compared to only 34% of poor women (Victora *et al.*, 2011). Women who are housewives and have little or no access to resources have no ability to make decisions in their marital homes. They are forced to rely on their mothers' decisions on the law of care during pregnancy and delivery modes.

Lack of resources also limits transportation, even if maternity services are provided free. Lack of income is a known barrier for cesarean delivery.

Religion has also been linked with the use of maternal health services. Kamal (2013) it was shown that religious influence on the mode of delivery was dependent on faith. Among Christians, cesarean delivery is not prohibited, provided it is done under medical advice to improve the life of the mother or to prevent loss of life of the fetus. Among Muslims, it is expected that the birth of normally progressing as planned by God. Cesarean section is not encouraged even with medical advice. Even in emergencies, advocate that should not be done because the life of the mother is the will of God (Abera and Belachew, 2011). This explains the low acceptance of cesarean section among Muslim women.

Culture and values of a society greatly contributes to decisions, behaviors and practices adopted by a community and an individual. For example, vaginal birth mothers value that is celebrated by the community as a sign of femininity, strength and ability to perform the functions most challenging motherhood. It is also seen as an important indicator of passage to motherhood (Spong *et al.*, 2012).

Factors related to the hospital also influence the decision of mothers in the use of services such as the type of delivery. The characteristics of providing health care services make a significant contribution to maternal decisions for the type of delivery. Once the mother has chosen the right service provider, she made sure good professional responsible decisions in which the alternative delivery method would have been chosen as a last resort option to the satisfaction of the mother. Tian *et al.*, (2014) Liu *et al.*, (2013).

Knowledge, attitudes and perceptions of mothers varies in different types of delivery modes. (Yazdizadeh *et al.*, 2011). The most common reason for maternal request CS was the fear of pain (Fatemeh *et al.*, 2014). Increased maternal knowledge on methods of pain relief during labor and provide equipment and personnel certified to optimize obstetric anesthesia in both public and private hospitals can lead to the reduction of maternal fear of pain and encourage more mothers prefer vaginal delivery (Yuen *et al.*, 2014).

Despite the many studies conducted elsewhere with a good perception of preferences for modes of delivery, most of these studies are conducted in developed countries with limited publication in developing countries, therefore, the current study tried to assess the preferences of Iraqi women toward the mode of delivery and the factors that influence their options.

Materials and Methods

This was a cross-sectional survey included 428 Iraqi women, enrolled in the study during the period from June 2016 to august 2017. The participated women were mothers after childbirth who gave their informed consent to participate in the study who were attended the outpatients clinic of the Gynecology and Obstetrics department at the included two hospitals in Bghdad during the study period; Shaheed Mohammad Baqir AlHakeem Hospital, and AlKarama teaching Hospital. Additionally some participants were clients of the private clinic of the researcher. All official agreement, and women's verbal consent were obtained' prior to initiation of the study and enrollment of participants.

The sample size was calculated according to the standard equation for cross-sectional studies:

$$N = \frac{Z^2 x P (1 - P)}{d^2}$$
(Mohamad *et al*, 2013)

Where (N) is the required sample size, Z is the standard deviation corresponding to 95% level of confidence, P is expected proportion (that can be obtained from same studies), and d is precision. in our study we proposed equal proportions of women that prefer either mode of delivery, (P = 50%) this assumption to obtain the larger sample size, Z is a constant for the 95% confidence which is equal to (1.96) and precision (d) was set at (0.05). Applying the equation revealed that the required sample was 384 additional 15% were added, to cover the non-response aire. So that the total calculated sample was 441, approximated to 450, however, despite the higher response rate but still 24 women refused, giving a response rate of 93%, and the net sample size was 426 women, and this sample size was sufficient to achieve the minimum required for data analysis

Inclusion and exclusion criteria

All mothers after childbirth and who gave their informed consent to participate in the study. While mother who were non-Iraqi or non-Arabic speaking, failed to give the consent or refuse to participate in the study were excluded from the study.

Data collected by direct interview with the study participant using pre constructed data collection sheet (questionnaire) which gathered information about demographic characteristics of mothers, mode and place of delivery that they most preferred, infant gender, socioeconomic status, reasons for their choice of the mode of delivery. Data were analyzed using the sttistical package for social sciences (SPSS) version 22, statistical procedures and tests were applied accordingly. Level of significance was set at 0.05.

Results and Discussion

There were 428 women enrolled during the study period with a mean age of 28.3 years, the demographic characteristics are shown in (Table1). Among the studied group, majority, (79%) preferred to deliver by normal vaginal delivery (NVD), and the remaining 21% were preferring CS, (Figure 1).

The preferred mode of delivery was significantly associated with the age of women aged 21 - 40 years were more preferred NVD than CS delivery, than younger or older women (P<0.001). Women who had 1-4 parities, were more likely to prefer the NVD while primigravida and those with more than 4 parities, (P<0.001). Additionally, housewives were significantly

associated with the preferring of NVD, (P<0.001). In adequate income was also associated with the preferring of NVD than CS, (P<0.001). The options and decision of mothers about their preferred mode of delivery was not affected by the gender of their neonates, (P>0.05), these findings are shown in (Table 2). The reasons contribution and effect of these factors on the mother choices for either mode delivery were multifactorial; on the top of the list previous experience represented the more frequent reason, 62.7%, of women said that their option was mainly based on their previous experience with the mode of delivery. Furthermore, 55.6% claimed that their choice was depend on the decision of the husband or the family. Hospital-related Factors contributed for 49.6% of all reasons that affect mother choice or decision about the preferred mode of delivery. Advice from family members or relatives responsible for 44.3% of the decisions of mothers about their preferred mode of delivery. Financial and economic reasons for 28.2% Medical causes for 24.2%, Cultural values for 22%, Perceived delivery services quality for 19.3%, Nurses or midwives advice contributed for 13.6% and advice from friends affected the options of 8% of the women in the study, (Table 3).

The study found that younger women (age ≤ 20 years) and women older than 40 years, have higher CS rate than those aged the age group between 21 -40 This finding is similar to a study in Nigeria, which showed higher rates CS delivery among younger women (Envuladu *et al.*, 2013). The high prevalence of CS among younger women may be due to increased birth complications associated with pregnancy at an early age and underdeveloped reproductive systems.

Regarding the level of education, the study found that the rate of CS increased with increasing level of education. This finding was also reported by Klemetti *et al.*, (2012) which documented that the acceptance of CS increased among mothers with higher education. This could be due to the fact that educated mothers have the ability to access and use appropriate information to support their delivery decisions easily.

Our study showed that VD was common among women with higher parity, while CS is common among primigravida. This result is in agreement with a study by Tsegay *et al.*, (2013) in which parity was associated with a higher probability for VD deliveries. Women with higher parity, especially those with VD successful deliveries have increased confidence. They have less fear of pain and risk pregnancy outcomes associated with CS.

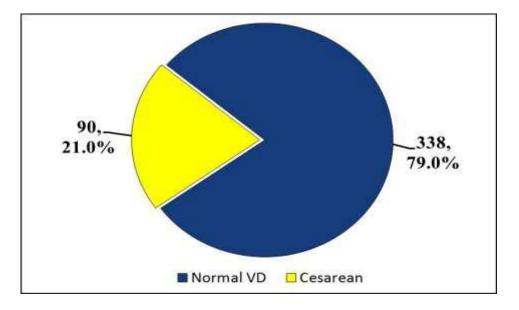


Fig.1 Distribution of the studied group according to their preferred mode of delivery

Table.1 Demographic	characteristics of the	studied group $(n = 428)$

Variable		No.	%
Age in years	≤ 20	92	21.5
	21 - 30	178	41.6
	31-40	112	26.2
	> 40	46	10.7
Parity	Primigravida	104	24.3
	1 - 2	185	43.2
	3 - 4	103	24.1
	>4	36	8.4
Job	Housewife	255	59.6
	Employed	173	40.4
Education level	Illiterate/read and write	93	21.7
	Primary	110	25.7
	Secondary	143	33.4
	Institute or higher	82	19.2
Income	Adequate	192	44.8
	Inadequate	236	55.2
Mode of current child	Vaginal delivery	261	61.0
wive of current child	Cesarean section	167	39.0
Gender of current	Male	211	49.3
child	Female	217	50.7

		Preferred mode of delivery				
Variable		Vaginal delivery (N = 338)		Cesarean section (N = 90)		P. value
		No.	%	No.	%]
Age in years	≤20	56	60.9	36	39.1	
	21 - 30	147	82.6	31	17.4	0.001
	31 - 40	102	91.1	10	8.9	< 0.001
	> 40	33	71.7	13	28.3	-
Parity	Primigravida	74	71.2	30	28.8	<0.001
	1 - 2	162	87.6	23	12.4	
	3 - 4	88	85.4	15	14.6	
	>4	14	38.9	22	61.1	
Occupation	Housewife	230	90.2	25	9.8	- 0.001
	Employed	108	62.4	65	37.6	
Level of education	Illiterate/read and write	84	90.3	9	9.7	
	Primary	92	83.6	18	16.4	0.001
	Secondary	110	76.9	33	23.1	- 0.001
	Institute or higher	52	63.4	30	36.6	-
Income	Adequate	136	70.8	56	29.2	- 0.003
	Inadequate	202	85.6	34	14.4	
Gender of	Male	163	77.3	48	22.7	- 0.46
current	Female	175	82.9	42	19.9	

Table.2 Demographic characteristics and preferred mode of delivery of the studied group

Factor	Contribution (%)
Previous experience	62.7%
Decision of husband or family	55.6%
Hospital-related Factors	49.6%
Advice from family members and relatives	44.3%
Financial and economic causes	28.2%
Medical causes	24.2%
Cultural values	22.0%
Perceived delivery services quality	19.3%
Nurses or midwives advice	13.6%
Advice from friends	8.0%

Table.3 Contributing factors affecting the mothers options for the mode of delivery

The type of birth had significantly associated with the categories of income, women with adequate income were more likely preferred CS than VD, while those with lower income (Inadequate) prefer to get VD. This result agreed the findings of Dagne (2010), who found income levels to influence access to special delivery options CS.

This finding is also compatible with a global study conducted in more than 50 countries showed that more than 80% of births were Caesarean among rich women compared to only 34% for poor women (Victora *et al.*, 2011).

This finding can be attributed to the availability of free delivery services in public hospitals. However, among these Muslim communities, it was clear that women are dependent on their spouses and close relatives that limit the discretion of highly delivery options. This result the crucial role of reducing economic vulnerability lies through opportunities for education and financial literacy among women as a measure of improved delivery and outcomes of health of the general woman requires informed decision-making (Chanza *et al.*, 2012).

In the present study, housewives were significantly preferred VD than employed women. This is explained by the finding that, in many cases, household income is the main benchmark for the wealth of woman as opposed to personal income.

In particular, most women are housewives as it had greatly promoted the culture and trust spouse or family wealth (Kamal, 2013, Abera and Belachew, 2011)

Gender of the newborn did not affect the decision of women to choose either mode of delivery. Regarding the main determinant factors that affect the decision of the mother to choose the mode of delivery or to prefer one mode than another, the current study found that the contributing factors in the following sequence ; previous experience 62.7%, decision of the husband or the family 55.6%, Hospital-related Factors, 49.6%, advice from family members or relatives responsible for 44.3%, financial and economic reasons, Medical causes, Cultural values, Perceived delivery services quality Nurses or midwives advice contributed, and the least effect was due to advice from friends only 8%. These findings were almost similar to that of previous studies conducted in other countries Mokua (2014), some cultural women labeling values that cannot give birth normally as women 'failed', increasing CS rejection rate leading to high mortality and morbidity of mothers and their newborn. This is supported by Yazdizadeh *et al.*, (2011) who agreed that beliefs and perceptions about options for women's health is largely linked to prevailing social norms and values and culturally acceptable.

The distance from home to health facility is an important hospital related factor, Aberese-Ako et al., (2015), who reported that influences distance delivery options by improving availability and access to health services. The perceived quality of care mainly influence mode of delivery. The number of deliveries both VD and CS increased the perception of improved quality of care delivery Kitui et al., (2013). Women were of the opinion that the quality of delivery services is significantly and continues to improve in hospital as a result of increased skilled deliveries and the CS acceptance. Improving the perceived quality of care of women ensures that the facility has the capacity of staff and resources to carry out safely and successfully CS. (Liu et al., (2013). Additional staff friendliness is an important building perceived quality of service not only, but also the choice of mode of delivery Yazdizadeh (2011),

The study found that respondents did not have enough knowledge about care delivery, risk and related problems undermining their ability to make informed decisions and sound. In the present study, women associated CS potential for infertility and limited possibilities of giving birth normally for future deliveries. This finding of the study was similar to that of Fatemeh et al., (2014) in which women with CS risks associated infertility. This explains the increase in CS CS rejection rate even for life-saving interventions that the risk of any baby or mother indicated. Consequently, a substantial proportion of women, do not attend ANC because they are ignorant of its importance in the safe delivery. In addition, many women attending ANC do not get enough advice and support midwives due to time limited interaction between patient and provider health staff. This finding was supported by a study by Ruckley et al., (2012) and Fatemeh et al., (2014)

Women in the study have found that attitude and practices affecting negative delivery options. inadequate knowledge has been linked to negative and bad practices toward choosing delivery methods especially use of CS attitudes. This finding was similar to that of Yazdizadeh *et al.*, (2011) in which women were reported attitudes and practices to influence individual beliefs and perceptions towards delivery options. education and creating awareness of women is useful to help women adopt a positive attitude towards delivery options.

The study concluded that women perceive VD as the most natural physiological process, and a sign of femininity. CS is the least used method. However, because of the growing medical breakthrough, cesarean delivery is becoming an acceptable mode of administration and frequent especially among the educated, richer and more young people living in urban areas that are highly influenced by the values of Westernization. However, CS acceptance rates among Iraqi women remained low. Further studies are highly suggested on the national level including larger sample size for more investigation of the factors associated with preferences of women regarding mode of delivery.

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