

*Research Article***Women's Preferences Regarding Mode of Delivery in Minia District, Upper Egypt****Eman R. Ghazawy**Department of Public Health and Preventive Medicine,  
Faculty of Medicine, Minia University, Egypt.**Abstract**

**Background:** Childbirth is an important life event for women; recently more women choose to give birth by Caesarean section (CS). The aim of this study was to determine the mothers' preference regarding the mode of delivery, reasons and the associated factors behind this preference in Minia Governorate. **Methods:** A cross-sectional study of 308 women who had given birth within the past two years attending health centers were recruited during the period from January to end of March 2016. A structured interview questionnaire assessed the women preferences for delivery and reasons behind this preference. **Results:** The rate of normal vaginal delivery (NVD) preference was 82.4%, and faster recovery after VD was the most common reason cited by 91.9% of participants, 17.6% of participants chose CS as their preferred mode of birth. The most common reason for choosing CS was the fear of labor pain (44.6%). The young age of women ( $\leq 30$  years) contribute to the CS preference with OR 2.13 (1.11-4.06). On other hand, previous experience of VD associates inversely with CS preference. About 30% of the study participants gave the last birth via CS. **Conclusion:** Despite the high percentage of natural birth preference among women but the caesarean rate remains high. Thus, women's preference alone couldn't be attributed to the high CS rates.

**Keywords:** Caesarean section, mode of delivery, women preferences.

**Introduction**

The childbirth experience is considered one of the most important and unique event in women's life. Generally, spontaneous vaginal delivery (VD) is the main form of delivery, but when it is not judicious, caesarean is carried out. A caesarean section (CS) is a life-saving surgical procedure when it is medically justified and it can effectively prevent maternal and perinatal mortality and morbidity<sup>(1,2)</sup>. However, it has been evident that an unnecessary CS particularly in low-resource settings are associated with short and long term maternal and perinatal risk<sup>(3,4)</sup>, in addition to the considerable economic burden for society<sup>(5)</sup>.

The World Health Organization (WHO) recommended that caesarean delivery rates should not exceed 10-15%<sup>(6)</sup>. However, with advances in reproductive technology, countries worldwide have witnessed an increasing trend toward the use of CS<sup>(7)</sup>. In Egypt, there are remarkable increases in

the rate of CS. In 1992, the rate of CS was only 5%. By 2008, the Egyptian Demographic and Health Survey (EDHS) found an increased CS rate up to 27.6%<sup>(8)</sup>. The 2014 EDHS shows that more than one-half of deliveries were by caesarean section<sup>(9)</sup>.

Caesarean delivery on maternal request was recorded as one of the non-medical reasons contributing to raising the CS rates<sup>(10-12)</sup>. However, studies show that few women actually prefer CS<sup>(13-15)</sup>. There are several factors influencing women's preference of mode of delivery such as knowledge of risk and benefits, socio-demographic factors, and previous birth experience<sup>(16)</sup>.

Lowering the rate of CS on maternal request and encouraging VD are required for maternal and fetal health. Thus, it is of great importance to identify the reasons affecting preferences of delivery. In Upper Egypt, till now there is a few published works about women's preferences

regarding modes of delivery and the factors influencing their choices of delivery. The aim of this study is to determine the mothers' preference regarding the mode of delivery, reasons and the associated factors behind this preference.

## Subjects and Methods

### Study design and population

This study is a descriptive cross-sectional study conducted among married women in childbearing period (18-49 years) in Minia district, Upper Egypt.

The study populations were recruited from two health centers chosen randomly; one urban (Eastern Family Health Center) and one rural (Damaris Health Center). The criteria for inclusion in this study were women in the reproductive age 18-49 years old who had given birth within the past two years and attending the health center either for family planning or for vaccination of their children.

The selected health centers were visited twice weekly during the period from January to end of March 2016. The sample size was determined by the availability of participants and time span of the study. A sample of 308 women was chosen on the basis of their willingness to participate and availability during the study period. All women seeking services in the above mentioned centers were interviewed, and a verbal consent was taken from them after explaining the nature and purpose of the study.

### Data collection:

A structured interview questionnaire was adapted from other studies done on women's preference for mode of delivery<sup>(6,12,20-22)</sup>. The questionnaire included; socio-demographic data, obstetric history of participants, questions regarding women preferences for mode of delivery and reasons behind this preference.

Ethical approval was taken by the ethical committee of the Faculty of Medicine, Minia University. Approvals of the

managers of the previously mentioned health centers were taken.

### Statistical analysis

The Statistical Package for Social Science (SPSS) for Windows (version 22.0) was used. Quantitative data were presented by mean and standard deviation, while qualitative data were presented by frequency distribution. Chi-square test was used to compare between more than one proportion and Independent sample t test was used to compare between means. Binary logistic regression analysis was performed to determine the independent factors that affect the women's preference of CS. A statistically significant level was considered when *P* value was less than 0.05.

### Results

As shown in table 1, this study includes 308 women, whose age ranges between 18-49 years with a mean of  $32.2 \pm 8.1$  years. About half of them (50.3%) were older than 30 years of age, 62.8% were urban residents. Majority of participants (72.2%) were housewives, and 20.4% were illiterate. Regardless financial and medical considerations, 290 out of the 308 women (84.4%) preferred normal VD, while the remaining 18 women (5.8%) preferred caesarean delivery. About two-thirds (66.9%) of women preferred normal VD, aged below 30 years compared to 46.1% of those who preferred caesarean delivery ( $p = 0.0003$ ) (Table 1).

Figure 1 illustrates that out of 308 participants, 232 (64.8%) gave the last birth vaginally and 126 (35.2%) gave the last birth via CS. According to reasons behind CS, the majority of mothers who delivered by CS 88.9% reported medical reasons while only 11.1% reported non-medical reasons. About 43% of mothers reported failure of labor progress and fatal distress as the main medical reasons followed by history of previous CS (20%). Regarding the non-medical reasons the majority of mothers (78.6%) cited fear of labor pain as the main reason followed by (14.3%) reported safety of baby and 9.1% requested CS to have tubal ligation.

Among the 290 participants who chose VD as the preferred mode of birth, the most common reason was that mothers would recover faster (91.9%), and the next most common was that they dislike the scar of surgery on abdomen (37.6%). The least reported causes of preference of VD were the emotional relationship between mother and the infant and early Initiation of breast-feeding (1.4%) and (0.3%), respectively. Among the 73 participants who chose CS as their preferred mode of birth, the most common reason for choosing CS was the fear of labor pain (74.6%), and the next most common was the previous bad experience with normal VD (33.3%), and (31.7%) of these participants thought that CS safer for the

baby. Only 7.3% and 2.3% of participants found that CS was a trendy mode of delivery and it prevents deformation of female genital tract, respectively (Table 2).

Table 3 clarifies the multivariable-adjusted OR (95% CI) of factors associated with the preference of CS as mode of delivery among the studied women. The age of women and previous mode of delivery are significant predictors. The young age of women ( $\leq 30$  years) contribute to the CS preference; OR is 2.13 (1.11-4.06). On other hand, previous experience of VD associate inversely with CS preference; OR are 0.10 (0.07-0.32) and 0.28 (0.12-0.69).

**Table 1: Sociodemographic characteristics of participants by mode of birth preference**

Variables	All participants (no= 290) No (%)	CS preference (no=73) No (%)	NVD preference (no=217) No (%)	$\chi^2$ value	p-value
<b>Age</b>					
$\leq 30$	178 (61.4)	42 (57.5)	136 (62.5)	8.78	0.03
$> 30$	112 (38.6)	31 (42.5)	81 (37.5)		
<b>Residence</b>					
Rural	133 (45.9)	20 (27.4)	113 (52.1)	0.201	0.6
Urban	157 (54.1)	53 (72.6)	104 (47.9)		
<b>Education</b>					
Illiterate	73 (25.2)	8 (10.9)	65 (30.1)	6.49	0.1
Read and write	37 (12.7)	0 (0)	37 (17.1)		
Basic	30 (10.3)	8 (10.9)	22 (10.1)		
Secondary	144 (49.7)	24 (32.9)	120 (55.3)		
University	70 (24.1)	18 (24.7)	52 (24.0)		
<b>Occupation</b>					
House wife	208 (71.7)	43 (58.9)	165 (75.9)	0.002	0.4
Worker	82 (28.3)	30 (41.1)	52 (24.1)		
<b>Husband education</b>					
Illiterate	51 (17.6)	6 (8.2)	45 (20.7)	6.08	0.1
Read and write	23 (7.9)	0 (0)	23 (10.6)		
Basic	34 (11.7)	7 (9.6)	27 (12.4)		
Secondary	173 (59.3)	20 (27.4)	153 (70.6)		
University	79 (27.2)	20 (27.4)	59 (27.3)		
<b>Husband occupation</b>					
Farmer	67 (23.1)	8 (10.9)	59 (27.2)	1.89	0.3
Private sector/free worker	91 (31.4)	18 (24.7)	73 (33.6)		
Employee	132 (45.5)	57 (77.4)	75 (34.8)		

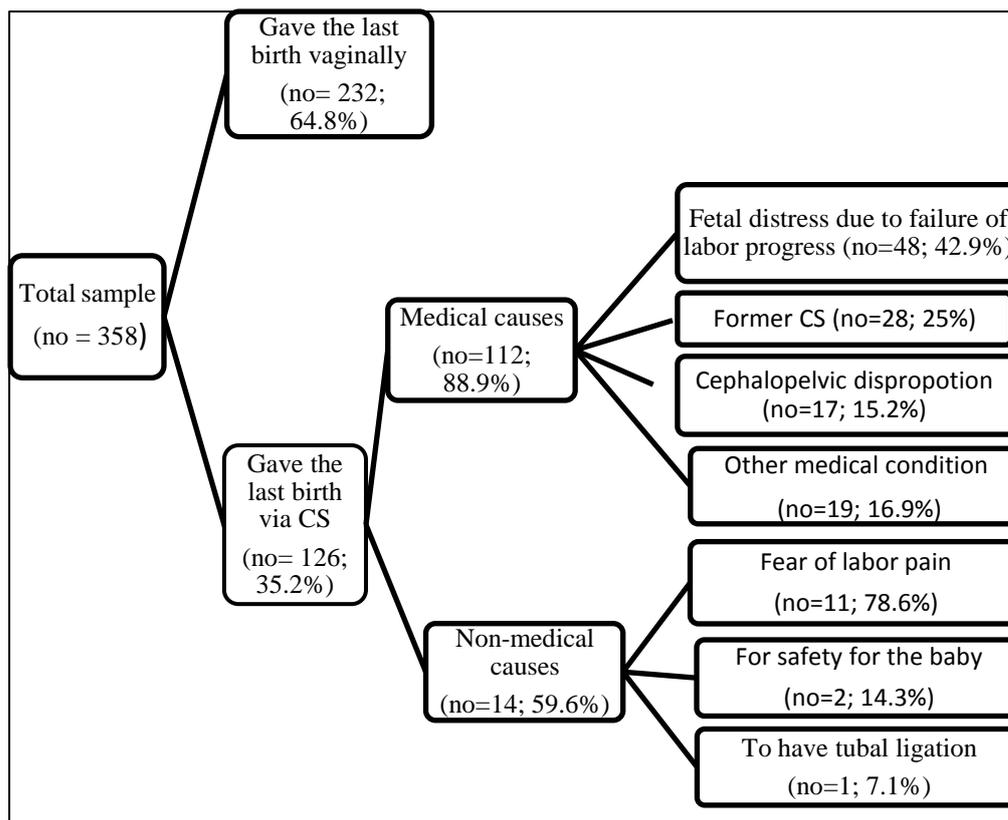


Figure 1: Flowchart distribution of the studied women according to their last birth

Table 2: Main reasons for the mode of birth preference among participants

Reasons for the mode of birth preference	All participants No (%) <sup>a</sup>
<b>Reasons for Vaginal delivery (N = 290)</b>	
The mother recovers sooner after vaginal delivery	271 (93.4)
I don't like the scars of surgery on my abdomen	111 (37.9)
Because of anesthesia, vaginal delivery is much better	04 (1.3)
Vaginal delivery is less risky and healthier for the mother	46 (15.5)
Vaginal delivery healthier for the baby	20 (6.8)
Don't necessitates long hospital stay	13 (4.4)
Emotional bond between mother and the infant is better	4 (1.3)
Initiate breast feeding faster	1 (0.3)
<b>Reasons for caesarean section (N = 63)</b>	
Fear of labor pain	47 (74.6)
Bad experience with NVD	21 (33.3)
Safer for the baby	20 (31.7)
Fear of long lasting labor and lose her control	14 (22.2)
Fear of sexual life disturbance due to losing pelvic muscle integrity	8 (12.7)
I don't like mother's position on the gynecology bed	6 (9.5)
Finds CS a trendy mode of delivery	4 (6.3)
CS prevents deformation and malformation of female genital tract	2 (3.1)

<sup>a</sup>Numbers do not add to 100% as respondents might have more than 1 reason

Table 3: Multivariate logistic regression of factors influencing mode of birth preference

Variables	Adjusted OR (95% CI)	p-value
<b>Age</b>		
> 30	1.00 (reference)	
≤ 30	2.13 (1.11-4.06)	0.02
<b>Residence</b>		
Rural	1.00 (reference)	
Urban	1.81 (0.63-2.19)	0.00
<b>Education</b>		
Illiterate	1.00 (reference)	
Read and write	1.37 (0.36-0.02)	0.06
Basic	1.41 (0.39-0.06)	0.00
Secondary	1.31 (0.44-3.81)	0.06
University	0.93 (0.21-4.14)	0.09
<b>Occupation</b>		
House wife	1.00 (reference)	
Worker	0.99 (0.46-2.20)	0.09
<b>Husband education</b>		
Illiterate	1.00 (reference)	
Read and write	2.44 (0.04-11.01)	0.02
Basic	1.01 (0.38-6.06)	0.00
Secondary	0.91 (0.20-3.20)	0.08
University	2.02 (0.43-9.49)	0.03
<b>Husband occupation</b>		
Farmer	1.00 (reference)	
Private sector/free worker	1.71 (0.61-4.71)	0.03
Employee	1.37 (0.47-3.91)	0.00
<b>Previous mode delivery</b>		
only CS	1.00 (reference)	
Only vaginal delivery	0.10 (0.07-0.32)	0.0001
Combined vaginal and CS	0.28 (0.12-0.69)	0.006
<b>Parity</b>		
One child	1.00 (reference)	
>1	1.76 (0.69-4.49)	0.02
<b>History of abortion</b>		
No	1.00 (reference)	
Yes	0.64 (0.33-1.28)	0.02

## Discussion

The CS rate among the studied women was (30.2%). This was lower than another Egyptian study in Ismailia<sup>(7)</sup> where the CS rate was 52.3%, this could be attributed partially to the place of the study. Ismailia governorate is one of the Lower Egypt governorates with higher socioeconomic level. This is matching the trends reported by the 2014 EDHS which show that more than one-half of deliveries were by caesarean section and the rate of CS in

Upper Egypt was (39.7%)<sup>(8)</sup>. It's worth mentioning her that, in Egypt, the rate CS is higher than the rate of 10% which is the recommended CS rate by the World Health Organization<sup>(9)</sup>. On the other hand, the 30.2% CS rate in our studied women was midway the range (7.3% in Africa to 40.0% in Latin American and in the Caribbean) of percentage of CS in different countries are; 50.6% in Brazil, 47.9% in Iran, 47.0% in Turkey, 38.1% in Italy and 32.8% in United States<sup>(10)</sup>.

The current study revealed that the majority of mothers (88.9%) reported medical reasons behind their C-section. Fetal distress has always been one of the most important medical indications for CS<sup>(10,11)</sup>. In line with this context, we found that fetal distress was the main medical reason behind the CS.

About 11% gave birth via CS upon their request. The rate of elective CS was comparable to that in Turkey, 18.0%<sup>(12)</sup>; Australia, 18.2 and Sweden, 8.7%<sup>(13)</sup>. However, it was higher than reported by Chigbu et al.,<sup>(14)</sup> who found that 8.8% of CS among Nigerian women performed on maternal request. CS on maternal request is often caused by fear of pain,<sup>(15)</sup> this is emphasized by the present study as fear of labor pain was stated as the main reason for the request of CS by 98.6% of women.

Regardless financial and medical considerations, VD is highly valued by most women, 82.8% of the studied participants preferred VD. Fouly et al., reported lower rates for VD preference in Assiut; 6.9% and in Zagazig; 6.8%<sup>(16)</sup>. While Shabaan et al., found higher rate in Ismailia governorate<sup>(17)</sup>. There is evidence from studies conducted worldwide that most women prefer vaginal delivery<sup>(18)</sup>.

The majority (91.9%) of women attributed their preference for vaginal delivery due to faster recovery. This is consistent with the findings of Yilmaz et al.,<sup>(19)</sup> in which 88.6% preferred VD because of rapid postpartum recovery. In a study conducted by Shi et al.,<sup>(20)</sup> it was found that most common reason for choosing VD was that mothers would recover faster (98.7%).

It was found that 10.6% of women in our study thought that VD is less risky and healthier for the mother, 8.0% healthy for baby. On contrary, many studies have reported that the majority of women considered VB to be a safer mode of birth for the mother and for baby<sup>(21,22)</sup>. Moreover, only 1.8% and 0.3% of those in our study thought that VD enhance the emotional relationship between mother and the infant and Initiate breast feeding faster. It is notable that there are many unknown

advantages of VD. So, women are recommended to be well-informed by healthcare professionals about VD.

In the present study it was found that 14.6% of women prefer CS. Similar rates for caesarean preference 16.9% in Italy<sup>(23)</sup> and 16.7% in Hong Kong<sup>(24)</sup>. However, in a previous study conducted by Shabaan et al.,<sup>(17)</sup> in Ismailia governorate, Egypt it was found that 9.7% of participants preferred CS as mode of delivery. Another study conducted by Pevzner et al.,<sup>(25)</sup> showed that only 9% of women in USA prefer to deliver by CS. Hildingsson et al.,<sup>(26)</sup> reported similar findings in Sweden as 8.2% of the study Participants preferred caesarean delivery.

About three-quarters of participants stated their preference of CS due to fear of labor pain. In parallel to our findings, many studies showed that fear of labor pain was the main reason for choosing caesarean delivery<sup>(27,28)</sup>. In addition, belief that CS safer for baby stated by (31.7%) and uncertainty of giving birth and losing the control during VD (22.2%) were also important factors influencing the preference of CS in this study. Similarly, Buyukbayrak et al.,<sup>(29)</sup> reported that a fifth of the participants in their study prefer CS due to finding it safer for babies. Another study conducted in China found that the top reasons for preferring CS were a lack of confidence in VB (37.3%), and the perception that the baby would suffer fewer risks (38.8%)<sup>(30)</sup>.

In the current study, age and previous mode of delivery were significantly associated with women's preference of CS in the multivariable-adjusted regression model. The young age of women ( $\leq 30$  years) contribute to the CS preference; (OR=2.13). This was in disagreement with Yilmaz et al.,<sup>(19)</sup> who found that being at the age of  $\leq 30$  (OR=0.6) years decrease the CS preference, another study in Saudi Arabia<sup>(31)</sup> revealed that women who preferred CS were more likely to be:  $\geq 30$  years. This may be attributed to the elevated childbirth fear among young women; in our study women who cited fear of labor pain had lower mean age (not shown in tables).

Additionally, fear of potential pelvic floor damage and sexual dysfunction after VD may be another concern.

Besides, previous mode of delivery is another factor affecting the women's preference of CS. previous experience of vaginal delivery associate inversely with CS preference. In parallel to our findings, many studies found that women who had vaginal birth and cesarean sections, stated preference for natural childbirth<sup>(21, 22)</sup>. Similar findings were reported among Chinese women where it was reported that previous caesarean section is a main determinant for women preferences for elective CS<sup>(23)</sup>. In a study conducted by Yilmaz et al.,<sup>(24)</sup> in Turkey, women undergoing CS (OR=2.8) increased the risk for preferring CS.

### Conclusion

The study found that 82.4% of women preferred VD because it has faster postpartum recovery and they believe it is safer, while those who chose CS reported that fear of labor pain was the main reason for their choice. The young age of women ( $\leq 30$  years) and their previous birth experience contribute to the CS preference. Despite the high percentage of natural birth preference among women but the caesarean rate remains high. Thus, women's preference alone is unlikely to be attributed to the high CS rates. The obstetricians' opinions and attitude towards indication of CS in Minia governorate warrant to be investigated in further studies.

### References

- Hannah ME, Hannah WJ, Hewson SA, Hodnett ED, Saigal S and Willan AR. Planned caesarean section versus planned vaginal birth for breech presentation at term: a randomized multicenter trial. Term Breech Trial Collaborative Group. *Lancet*. 2002;356(9239):1370-83
- Zwelling E. The emergence of high-tech birthing. *J Obstet Gynecol Neonatal Nurs*. 2008; 37(1):80-93.
- Souza JP, Gulmezoglu A, Lumbiganon P, Laopaiboon M, Carroli G, Fawole B, et al., Caesarean section without medical indications is associated with an increased risk of adverse short-term maternal outcomes: the 2004-2008 WHO Global Survey on Maternal and Perinatal Health. *BMC medicine*. 2010; 8:71.
- Briand V, Dumont A, Abrahamowicz M, Sow A, Traore M, Rozenberg P, et al., Maternal and Perinatal Outcomes by Mode of Delivery in Senegal and Mali: A Cross-Sectional Epidemiological Survey. *PLoS ONE*. 2012; 7(10): e47307.
- Khan A and Zaman S. Costs of vaginal delivery and Caesarean section at a tertiary level public hospital in Islamabad, Pakistan. *BMC Pregnancy Childbirth*. 2010; 10:2.
- Gibbons L, Belizan J, Lauer J, Betran A, Meraldi M and Althabe F. The global number and costs of additionally needed and unnecessary caesarean sections performed per year: over use as a Barrier to Universal Coverage. World Health report, 2010 Background paper, No 20. Retrieved from: [http://www.who.int/entity/healthsystems/topics/financing/healthreport/2010\\_C\\_sectioncosts.pdf](http://www.who.int/entity/healthsystems/topics/financing/healthreport/2010_C_sectioncosts.pdf). accessed at 0 March 2016.
- Loke A, Davies L and Li S. Factors influencing the decision that women make on their mode of delivery: the Health Belief Model. *BMC Health Services Research*. 2010; 10:274-286.
- El-Zanaty F and Way A. Egypt Demographic and Health Survey 2008. Cairo, Egypt: Ministry of Health and Population, National Population Council; 2009. El-Zanaty and Associates, and ORC Macro.
- El-Zanaty F and Way A. Egypt demographic and health survey. 4th ed. Cairo: Ministry of Health and Population, National Population Council; 2010.
- Dobson R. Caesarean section rate in England and Wales hits 21 percent. *BMJ*. 2011; 343:901.
- Villar J, Valladares E, Wojdyla D, Zavaleta N, Carroli G, Velazco A, et al., Caesarean delivery rates and pregnancy outcomes: the 2000 WHO global survey on maternal and perinatal health in Latin America. *Lancet*. 2006; 367:1119-1129.

12. Belizán JM, Althabe F and Cafferata ML. Health consequences of the increasing caesarean section rates. *Epidemiology*. 2007;18:480-6.
13. Angeja A, Washington A, Vargas J, Gomez R, Rojas I and Caughey A. Chilean women's preferences regarding mode of delivery: which do they prefer and why? *BJOG*. 2006;113:1203-8.
14. Emmett C, Shaw A, Montgomery A and Murphy D for the DiAMOND Study Group. Women's experience of decision making about mode of delivery after a previous cesarean section: the role of health professionals and information about health risks. *BJOG*. 2006;113:1438-45.
15. Scotland G, McNamee P, Cheyne H, Hundley V and Barnett C. Women's preferences for aspects of labor management: results from a discrete choice experiment. *Birth*. 2011;38:36-46.
16. Emmett C, Montgomery A, Murphy D for the DiAMOND Study Group. Preferences for mode of delivery after previous cesarean section: what do women want, what do they get and how do they value outcomes? *Health Expect*. 2011;14:397-404.
17. Fuglenes D, Aas E, Botten G, Oian P and Kristiansen I. Maternal preference for cesarean delivery: do women get what they want? *Obstet Gynecol*. 2012;120:202-6.
18. Liu N, Mazzoni A, Zamberlin N, Colomar M, Chang O, Arnaud L et al., Preferences for mode of delivery in nulliparous Argentinean women: a qualitative study. *Reprod Health*. 2013;10:1-7.
19. Penna L and Arulkumaran S. Cesarean section for non-medical reasons. *Int J Gynaecol Obstet*. 2003;82(3):399-409.
20. Habib H, Abdulla M and Yacoub S. Knowledge and Preference of Mothers Delivering at ALKadhumiya Teaching Hospital Regarding Cesarean Section and Normal Vaginal Delivery. *The Iraqi postgraduate medical journal* 2011;10(4):512-518.
21. Osisa MJ, P'aduaa KS, Duartea GA, Souzaa TR and Fa'undes A. The opinion of Brazilian women regarding vaginal labor and cesarean section. *International Journal of Gynecology and Obstetrics*. 2001;(7):S69-S76
22. Shi Y, Jiang Y, Zeng Q, Yuan Y, Yin H, Chang C et al., Influencing factors associated with the mode of birth among childbearing women in Hunan Province: a cross-sectional study in China. *BMC Pregnancy and Childbirth*. 2016;16:108.
23. Shaaban M, Sayed Ahmed W, Khadr Z and El-Sayed H. Rising cesarean section rates, a patient's perspective: experience from a high birth rate country. *Clin Exp Obstet Gynecol*. 2014;41(4):436-439.
24. Betrán AP, Ye J, Moller A-B, Zhang J, Gülmezoglu AM and Torloni MR. The Increasing Trend in Caesarean Section Rates: Global, Regional and National Estimates: 1990-2014. *PLoS ONE*. 2016;11(2):e0148443.
25. Tang CH, Wang HI. Risk-adjusted Caesarean Section rate for the assessment of physician performance in Taiwan: a population based study. *BMC Public Health* 2006;6:246
26. Haider G. Frequency and indications of caesarean section in a tertiary care hospital. *Pak J Med Sci* 2009;20(5):791-796.
27. Shamshad. Factors leading to increased caesarean section rate. *Gomal J Med Sci* 2008;7(1):1-4
28. Qin C, Zhou M, Callaghan WM, Posner SF, Zhang J, Berg CJ, et al., Clinical Indications and Determinants of the Rise of Caesarean Section in Three Hospitals in Rural China. *Matern Child Health J* 2012;17(7):1484-90.
29. Yilmaz SD, Bal MD, Beji NK and Uludag S. Women's Preferences of Method of Delivery and Influencing Factors. *Iranian Red Crescent Medical Journal*. 2013;10(8):683-689.
30. Haines H, Rubertsson C, Pallant JF and Hildingsson I. Womens' attitudes and beliefs of childbirth and association with birth preference: a comparison of a Swedish and an Australian sample in mid-pregnancy. *Midwifery*. 2012;28(7):e80-6.

31. Chigbu CO, Ezeome IV and Iloabachie GC. Cesarean section on request in a developing country. *Int J Gynaecol Obstet.* 2007; 96(1): 04-6.
32. Duckworth S. Should maternal choice be an indication for cesarean section? *Int J Surg.* 2008; 6(4): 277-80.
33. Fouly H, Mohamed S and Abbas A. Factors Affecting Women's Perception about Mode of Childbirth based on different locality. *IOSR Journal of Nursing and Health Science (IOSR-JNHS).* 2016; 9(3): 87-93.
34. Hildingsson I, Radestad I, Rubertsson C and Waldenstrom U. Few women wish to be delivered by caesarean section. *BJOG.* 2002; 109: 718-23.
35. Pevzner L, Goffman D, Freda MC AND Dayal AK. Patients' attitudes associated with caesarean delivery on maternal request in an urban population. *Am J Obstet Gynecol.* 2008; 198: e30-37.
36. Mancuso A, De Vivo A, Fanara G, Settineri S, Triolo O, et al., Women's Preference on mode of delivery in Southern Italy. *Acta Obstet Gynecol.* 2006; 85: 694-699.
37. Pang SMW, Leung DTN, Leung TY, Lai CY, LauTK, et al., Determinants of preference for elective caesarean section in Hong Kong Chinese pregnant women. *Hong Kong Med J.* 2007; 13(2): 100-105.
38. Sercekus P and Okumus H. Fears associated with childbirth among nulliparous women in Turkey. *Midwifery.* 2009; 20(2): 100-112.
39. Buyukbayrak EE, Kaymaz O, Kars B, Karsidag AY, Bektas E, Unal O, et al., Caesarean delivery or vaginal birth: preference of Turkish pregnant women and influencing factors. *J Obstet Gynaecol.* 2010; 30(2): 100-8.
40. Al-Mousa N. Beliefs and Preferences to have Elective Caesarean Delivery among Female Attendees to Primary Care Centers in Dhahran, Saudi Arabia. *International Journal of Advanced Research.* 2010; 3(5): 49-63.
41. Baston H, Rijnders M, Green JM and Buitendijk S. Looking back on birth three years later: factors associated with a negative appraisal in England and in the Netherlands. *J Reprod Infant Psychol.* 2008; 26(4): 323-339.
42. McGrath P, Ray-Barruel G. The easy option? Australian findings on mothers' perception of elective caesarean as a birth choice after a prior caesarean section. *Int J Nurs Pract.* 2009; 10(4): 271-279.