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Maternal Satisfaction about Prenatal and Postnatal Cares in Vaginal and Cesarean Section Delivery at Teaching and Non- teaching Hospitals of Tabriz/ Iran.

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Abstract

Objectives: The main goal of care services is provide and promote mankind's health. Patient satisfaction is recognized as an important parameter for assessing the quality of patient care services. Spatially mothers' satisfaction from delivery is very important because it influence on family and society psychological health. The aim of this study was comparing maternal satisfaction about prenatal and postnatal cares in vaginal and cesarean section delivery at teaching and non-teaching hospitals of Tabriz/ Iran.

Materials and Methods: This is a descriptive-comparative study. We selected 454 women who had been hospitalized for delivery in Alzahra, Talegani (teaching) and 29Bahman (nonteaching) Tabriz/Iran hospitals. For data collection, we used a questionnaire. Spss/ver13, Descriptive statistic, Independent t test, ANOVA and correlation tests were used for data analysis. **Results:** Findings indicated the highest level of satisfaction in both kind of hospitals was about physical and the lowest one was about informational aspect in women who had vaginal delivery, accordingly these rates about cesarean section was about physical and about informational and emotional aspects in labor. The analysis of data showed significant difference between mothers' satisfaction with all aspects of care in the teaching and non- teaching hospitals (P < 0.001).

Conclusion: The results showed that the highest rank from mothers' satisfaction was in the physical and the lowest rank was in informational category. Mothers were satisfied from vaginal delivery in all aspects. Rate of satisfaction in non-teaching were more than teaching hospitals.

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Introduction:

The main goal of care services is provide and promote mankind's health. Whereas most of the maternal and neonatal morbidities and mortalities occur during labor and immediately after delivery, mothers and the neonates as a vulnerable group of society require more attention so that, the prevention of maternal and neonatal death is considered as one of the pillars of social righteousness (1).

Hospitals are responsible for quality assurance programs. Decreasing the patients' waiting time and length of stay, increasing patients and personnel satisfaction are some examples for promotion of performance indexes. personnel-patient relation, personal characteristics, educational level, consider to patient's needs, hospital's location, service waiting time, environmental conditions and food quality are some factors influencing satisfaction in the different hospitals (2, 3). It's essential to care and support women perfectly to create a positive feeling toward her delivery experience. Midwifery Cares in the labor room is described in four aspects: 1) Emotional aspect such as, applause, trust and 2) continuous physical presence Informational aspect such as explanation and recommendation 3) Physical aspect which includes providing comfort like giving a massage 4) Women support which includes interpreting and acting on her desires (4). The necessity of patient satisfaction will be acceptable, if we believe human rights and respect the patient/client/care giver as a human (5).

Patient satisfaction is a very important concept in medical care, because the level of patients' satisfaction or dissatisfaction creates different responses to medical services. Satisfied patients mostly accept and follow up the treatment (6, 7).

In a study of Maki et al (2006) entitled as "Women's Evaluation of Labor and Delivery Nurses", 90% of women have assessed their nurses desirable and 10% of them have considered them undesirable. They evaluate of nurses desirable for their participation (80%), compliance (76%), informing (75%), encouraging (65%), and for their attendance (65%) (8). In Ordibeheshti's study (1998), mother's expectations from delivery care providers were completely achieved in 20% of cases, were partially achieved in 28% of cases and were not achieved in 56.2% of cases (9). In another study from Tehran's University of medical science, Mirmollayi and et al (2008), showed that the majority of mothers were satisfied with all three types of support services (informational, emotional, and physical) which they had received (4).

147

Pregnancy and delivery are important factors that affect on the maternal and neonatal health. Vaginal delivery in most pregnant women is considered as the best way of delivery, but respect to the great increase in cesarean delivery, caused decreasing the rate. In our country, rate of cesarean section was increased recently. Although this rate was dropped 35% to 33% but it is beyond the standards (10). This rate is reported 45.6% in Tabriz in 2004 (11).

Because the development in caring quality is not achievable without notice to patients' expectations, as well as midwifes have a great role in providing prenatal and postnatal cares, they should be aware of effective factors on this concept.

So the aim of this study was comparing maternal satisfaction about prenatal and postnatal cares in vaginal delivery and cesarean section at teaching and nonteaching hospitals of Tabriz/ Iran.

Material & Methods:

This study was descriptive-comparative in nature. It was conducted in 2011-2012. The target population consists of 15-45 years old married women who referred to the teaching (Alzahra, Talegani) and nonteaching (29Bahman) hospitals of Tabriz for delivery. Considering the rate of satisfaction (20%) with 0.95 confidences and 0.05 error and assuming 10% of the samples opting out, the initial number of samples was 412 and the final sample size was 454. At first, the list of all teaching and non- teaching hospitals was provided, and then we used random cluster sampling because of variance rate of delivery in hospitals. In the next step, noting the sample size, 329 cases

(200 vaginal delivery, 129 cesarean section) among all mothers who were referred for delivery in teaching hospitals and 125 (70 vaginal delivery, 55 cesarean section) in non-teaching. After introducing the study to women who had study's entrance criteria, they were invited to fill out the questionnaires (containing iographical information and patient satisfaction). Sampling was done with random selecting manner in last stage through the using www.randomizer.org website.

Entrance criteria included women being married, who were in 15-45 years old age group and willing to participate in the research, without history of infertility and psychology and physical problems. Also all participants spent at least 2 hours in labor wards. Data was collected by using the questionnaire that has been prepared based on the knowledge of experts. The questionnaire consisted of two parts. The first part contained 9 questions about women's demographic characteristics and obstetric history and the second part was composed of 41 questions which 11 of it was about physical, 12 of it was about informational, 9 of it was about ethical and 9 of it was about emotional aspects of satisfaction. This questionnaire was provided with questions based on a Likert scale of 1 to 5. For the systematic content analysis, patients' comments in response to specific questions were evaluated and classified as satisfied, extremely satisfied, negative (when explicitly or implicitly dissatisfaction). indicated extremely negative or neutral, lastly changed to satisfied and not satisfied. Then the data were split into two groups, satisfied and not satisfied. Total scores were calculated and presented as percentages. The questionnaires were reviewed by 10 professors of the university to assess content validity, and alpha cronbach coefficient of 0.81 demonstrated reliability of the questionnaire for assessing clients' satisfaction. Statistical analysis of quantitative data was carried out using the statistical package for social sciences (SPSS) software version 13, and descriptive statistics, independent t-test, analysis of variance (ANOVA), and correlation tests were used for data analysis. Mean values (M) and standard deviations (SD), as well as ranges of values were reported.

Results:

Research was conducted on 454 married women who were referred to delivery. Demographic characteristics of them were given in Table 1. The average of age was 26.37 ± 5.51 years and 1.18 ± 0.89 were primypara. The majority of women were housewife, 24 percent had high education and just 77 (17%) of them were ignore (Table 1). The rate of different aspects of satisfaction in the teaching hospitals was shown in Table2. The highest level of satisfaction in both kind of hospitals was about physical and the lowest one was about informational aspect in women who had vaginal delivery, accordingly these rates about cesarean section was about physical and about informational and emotional aspects in labor (Table 2, 3). Difference between teaching and non- teaching hospitals in all aspects in labor phase was statistically meaningful (p < 0/001). About the post-partum phase in both kind of hospitals there is statistically meaningful relation between different aspects except physical part (p=0/18) with mothers satisfaction (table 4, figure 1,2). There was significant relationship between physical, ethical and emotional aspects of satisfaction with and women's age, education and job (P < 0.05). It was also found that there was no correlation between the number of death and abortion with none of them. (Table5).

Discussion:

The results of this research showed that, the type of delivery effects the maternal satisfaction in four aspects of caring; which the level of maternal satisfaction from prenatal and postnatal cares of vaginal was more than cesarean delivery.

In women who had a vaginal delivery, dissatisfaction was in informational aspect. In the women with cesarean delivery dissatisfaction was in informational and emotional aspect before delivery and informational and ethical aspects after delivery. Lack of maternal satisfaction from gaining information, can be the result of minimizing importance of the role of information and Lack of sufficient time for the patients.

Results of Ordibeheshti's study (1997) showed that in educational maternity hospitals, the maternal informational expectations were not achieved in more than half of cases (51.10%), and it was partially achieved in 23.80% of cases. In this study, the greatest rate of maternal information providence was related to postnatal care information (91%) and the lowest rate was about the explanation of midwifery and medical expressions, (6%) and describing the duties of care givers and the other staffs (8%) (9). the results of this study in the teaching hospitals were the same as Ordibeheshti's study.

The study of Rodman and et al (2007) showed that 33% of the women were dissatisfied about the cares and the level of dissatisfaction in informational aspect was 7%. Results of study were inconsistent with ours, which can be related to the high quality in information giving in western countries (17).

In this study the greatest rate of dissatisfaction was about emotional aspect, after informational aspect, this lack of satisfaction in cesarean section was more than vaginal delivery.

The results of Corbort and Galister's study emphasized that the clients/care givers in labor needed more emotional supportive behaviors, so that most of them, found supportive behaviors during labor so useful (18). Results of Mirmollayi's study in 2003 showed that the hospitals related to the medical university of Tehran/ Iran, Shahid Beheshti and social security institute, 79.5% of the mothers are fully satisfied with emotional supports. The results of their study were the same as our study about vaginal delivery, but it was inconsistent with ours about the cesarean delivery (4).

The results of our study show that the results of our study declared that the level of maternal satisfaction from physical care in vaginal and cesarean delivery is more than the other aspects. In study of Ordibeheshti, level of satisfaction from physical care in vaginal delivery was 44.23% (9). Level of the

physical satisfaction, increased considering the study of Ordibeheshti. The possible reasons of difference in these studies were educational development in maternal physical care, the increase in attention toward development in physical care quality and lessened the problems about cares.

In Mirmollayi and et al's study (2008), in hospitals related to the medical university of Tehran, Iran, Shahid Beheshti and social security institute, 68.75% of mothers had the full satisfaction about the physical support in labor and delivery room (4), which were not the same as this study and the level of it was higher in ours. Environmental, cultural, social and economic difference between samples of our study and Mirmollayi's study can affect the maternal satisfaction directly.

The results of this study show that maternal satisfaction in all of four caring and supportive aspects in non-educational hospitals is significantly higher than educational once, which it can have different reasons. The possible reason of these dissatisfactions is maybe due to the high number of care providers and students in educational hospitals. In the study which Sharami and et al have done, it was indicated that, treat mental hospitals have been more successful than educational hospitals in satisfying of pregnant women in prenatal cares. It may be due to care indexes governing the educational hospitals (19). The results of their study were consistent with ours. In a study based on hospital service quality evaluation and the patients' satisfaction in London, Owusu (2010) showed that the type of the hospital was the main factor in the satisfaction level of women in caring system (20).

Conclusion :

Since the findings of this study showed that mothers' dissatisfaction rate in noneducational hospitals in which the delivery is made by the midwives under the supervision of women's and labor specialists is higher, it is suggested that in the coming studies, the role of the midwives in attracting the mothers' satisfaction be examined.

Meanwhile, since the current study was done without considering the mother's

awareness of care standards, it is suggested that a study will be done entitled as "studying the reasons of mothers' dissatisfaction with labor and delivery caretakers before and after receiving the care standards.

Conflicts of interest:

Authors declare that there is no any conflict of interest.

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Table 1. Personal and obstetrical characteristics of women who referred to the teaching and non-teaching hospitals of Tabriz/Iran for delivery.

Hospitals		Teaching	Non-teaching	Total
Characteristics		NO. (%)	NO. (%)	NO. (%)
	18-23	129(38/6)	42(35)	
Age	24-28	87(26)	38(31/7)	454(100)
M±SD	29-33	81(24/3)	25(20/8)	
Non-teaching:26/4±5/3	34-38	30(9)	13(10/8)	
Teaching: $26/3\pm5/6$	39-43	7(2/1)	2(1/7)	
	ignore	55(16/5)	22(18/3)	
	primary	84(25/1)	31(25/8)	
	intermediate	100(29/9)	34(28/3)	
Education	Diploma of high school	77(23/1)	32(26/7)	454(100)
	University Degree	18(5/4)	1(0/8)	
	Housekeeper	287(85/9)	110(91/7)	
	Work in house	35(10/5)	9(7/5)	
Job	Work out house	12(3/6)	1(0/8)	454(100)

		Satisfaction	Completely Satisfied	Satisfied	neutral	Dissatisfie	Completely Dissatisfied	Total
			NO. (%)	NO. (%)	NO. (%)	NO. (%)	NO. (%)	NO. (%)
		Physical	74(37)	113(56/5)	11(5/5)	2(1)	0(0)	200(100)
labor phase	waginal	Informational	72(36)	24(12)	45(22/5)	53(26/5)	6(3)	200(100)
labor phase	vaginal delivery	Ethical	82(41)	101(50/5)	14(7)	3(1/5)	0(0)	200(100)
	y	Emotional	90 (45)	91(45/5)	15(7/5)	3(1/5)	1(0/5)	200(100)
		Physical	0(0)	118(88/1)	16(11/9)	0(0)	0(0)	134(100)
	cesarean	Informational	0(0)	10(7/5)	124(92/5)	0(0)	0(0)	134(100)
	section	Ethical	0(0)	22(16/4)	112(83/6)	0(0)	0(0)	134(100)
		Emotional	0(0)	102(76/1)	32(23/9)	0(0)	0(0)	134(100)
		Physical	35(17/5)	108(54)	52(26)	4(2)	1(0/5)	200(100)
	vaginal	Informational	3(1/5)	47(23/5)	116(58)	25(12/5)	6(3)	200(100)
postpartum	delivery	Ethical	44(22)	85(42/5)	45(22/5)	24(12)	2(1)	200(100)
phase		Emotional	42(21)	54(27)	55(27/5)	32(16)	17(8/5)	200(100)
		Physical	0(0)	29(21/6)	105(78/4)	0(0)	0(0)	134(100)
		Informational	0(0)	0(0)	0(0)	134(100)	0(0)	134(100)
	cesarean section	Ethical	0(0)	18(13/4)	116(86/6)	0(0)	0(0)	134(100)
		Emotional	0(0)	8(6)	114(85/1)	12(9)	0(0)	134(100)

Table 2. Comparing maternal satisfaction about labor and post-partum cares in vaginal delivery and cesarean section in the teaching hospitals of Tabriz/Iran.

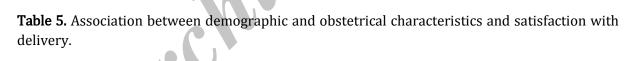
Table 3. Comparing maternal satisfaction about labor and post-partum cares in vaginal delivery and cesarean section in the non-teaching hospitals of Tabriz/ Iran.

		Satisfaction	Completely Satisfied	Satisfied	neutral	Dissatisfie	Completely Dissatisfied	Total
			NO. (%)	NO. (%)	NO. (%)	NO. (%)	NO. (%)	NO. (%)
		Physical	21(30)	43(61/4)	6(8/6)	0(0)	0(0)	70(100)
labor phase	vaginal	Informational	9(12/9)	24(34/3)	33(47/1)	4(5/7)	0(0)	70(100)
labor phase	delivery	Ethical	35(50)	33(47/1)	2(2/9)	0(0)	0(0)	70(100)
		Emotional	33(47/1)	35(50)	1(1/4)	1(1/4)	0(0)	70(100)
		Physical	0(0)	46(92)	4(8)	0(0)	0(0)	50(100)
	cesarean section	Informational	0(0)	0(0)	50(100)	0(0)	0(0)	50(100)
		Ethical	0(0)	5(10)	45(90)	0(0)	0(0)	50(100)
		Emotional	0(0)	46(92)	4(8)	0(0)	0(0)	50(100)
vaginal delivery postpartum		Physical	59(34/3)	42(60)	4(5/7)	0(0)	0(0)	70(100)
	-	Informational	19(27/1)	33(47/1)	17(24/3)	1(1/4)	0(0)	70(100)
	denvery	Ethical	39(55/7)	22(31/4)	7(10)	2(2/9)	0(0)	70(100)
phase		Emotional	37(52/9)	19(27/1)	10(14/3)	3(4/3)	1(1/4)	70(100)
-		Physical	0(0)	6(12)	44(88)	0(0)	0(0)	50(100)
	cesarean	Informational	0(0)	1(2)	49(98)	0(0)	0(0)	50(100)
	section	Ethical	0(0)	16(32)	34(68)	0(0)	0(0)	50(100)
		Emotional	0(0)	1(2)	44(88)	4(8)	1(2)	50(100)

151

Phases of delivery	Kind of delivery	Satisfaction	Non-teaching Mean±SD	teaching Mean±SD	P-value
		Physical	44.9 ± 4.4	41 ± 6.1	P= 0.0001
	vaginal	Informational	46.4 ± 6.4	37.2 ± 7.1	P = 0.0001
	delivery	Ethical	37.4 ± 5.4	32.7 ± 6.7	P = 0.0001
	delivery	Emotional	31.8 ± 5.7	26.4 ± 7.9	P = 0.0001
labor phase		Physical	35.1 ± 2.6	35.5 ± 2.7	P = 0.0001
labor pliase		Informational	28.2 ± 1.6	28.6 ± 1	P = 0.0001
	cesarean	Ethical	29.7 ± 1.2	29.3 ± 1.4	P = 0.0001
	section	Emotional	22.5 ± 2.2	23.1 ± 2.1	P= 0.0001
		Physical	43.8 ± 4.9	44.2 ± 4.5	P= 0.18
	mainal	Informational	44.5 ± 7.1	40.3 ± 3.4	P =0.0001
	vaginal delivery	Ethical	33.4 ± 3.9	32.2 ± 3.5	P =0.0001
	j	Emotional	37.1 ± 4.1	31 ± 1.7	P =0.0001
postpartum		Physical	38.5 ± 0.8	38.8 ± 1.3	P =0.0001
postpartum	cesarean	Informational	41.1 ± 1.2	51.8 ± 3.5	P =0.001
	section	Ethical	26.7 ± 1.0	27.1 ±1.3	P = 0.0001
	Section	Emotional	32.4 ± 1.3	$36.9 \pm \!$	P =0.0001

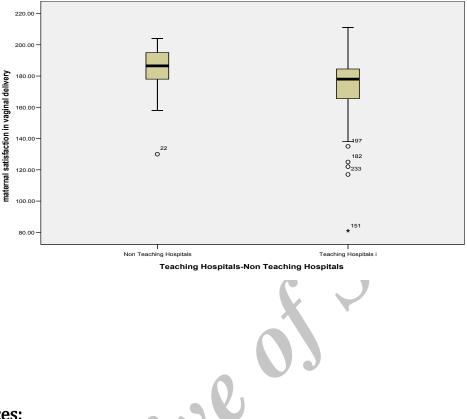
Table 4. comparing of satisfaction rate between teaching and non-teaching hospitals of Tabriz/ Iran.



	Satisfaction	Physical	Informational	Ethical	Emotional
Characteristics		p-value	p-value	p-value	p-value
	Age	0.0001	0.01	0.0001	0.0001
Personal	Education	0.0001	0.16	0.0001	0.0001
	Job	0.0001	0.18	0.0001	0.001
	The number of live children	0.0001	0.79	0.0001	0.0001
	The number of dead children	0.41	0.8	0.24	0.63
obstetrical	The number of Abortion	0.58	0.89	0.99	0.25

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Figure 1. Comparing maternal satisfaction in vaginal delivery in the non-teaching hospitals of Tabriz/ Iran.



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