

Quality of cesarean section nursing care and its reflection up-on women's satisfaction with labor experience

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Abstract

Women satisfaction is a crucial predictor for maintaining and monitoring the quality of health care and can inform service development and delivery. Aim: To evaluate the quality of cesarean nursing care at hospital of Mansura University, the outcomes of it preserve advance and support quality of care and women satisfaction. By using a descriptive design the study conducted at obstetrics and gynecology department in Mansoura university hospital. On a total of 200 women had undergoing elective cesarean section operation. Data collection by, structured interviewed questionnaire, observation checklist and satisfaction assessment scale. Results; Findings indicated that most of studied women had received a complete care during intraoperative & immediate post-operative 92.5% & 95.0% respectively. Meanwhile, 80.0% & 62.5% of them didn't received health education and emotional support also, the higher percentage of studied women were satisfied with general environment, cleanliness, communication and physical care 75.0%, 75.0%, 65.0% and 58.0% respectively. While, 60.0% of them were dissatisfied with continuity of care. Regarding involving in decision making, all of studied sample 100% were dissatisfied. Finally there was a positive association of quality of CS nursing care with the level of women's satisfaction with ($p < 0.05$). Conclusion: The current study indicated that, there are several factors that affected on women's satisfaction. higher percentages of them were satisfied with general environment, cleanliness, communication and physical care and dissatisfied with psychological care, continuity of care and involvement in decision making. There was a highly statistically association of women's satisfaction with CS nursing care offered. Recommendation: Woman satisfaction is an imperative health care outcome its assessment is recommended to be a part of hospital quality of care monitoring and improvement programs.

Keywords: Caesarean Section; Quality; Women Satisfaction.

1. Introduction

The improvement of maternity care is a key health policy focus, in recognition that health and wellbeing have implications throughout life and mother plays a key role in family wellbeing. Official birth rates increase but associated complications and death rates have been slow in reduction. One strategy to improve mother health and decrease complication by providing quality of nursing care that refers to "doing the right thing, at the right time, in the right way, for the right patient and having the best possible results". It is one of the key challenges facing maternal and neonatal services as deprived care from quality during births is main factor of complications (Henke, et al 2018; Bui, et al 2018).

The experience of labor is a complex, many dimensional and subjective event. It's related to outcomes of well-baby, as well as the physical and cognitive processes experienced by individual woman. As yielded by literature Caesarean Section (CS) is one of the commonest abdominal surgery there has been a dramatic increment rate around the world, which presently surpasses 30%. In Egypt, cesarean birth rate has been raised drastically from 27.6, to 70% (Martischang, et al 2018.; Martin, 2016; Al-Rifai, & Aziz, 2018).

Quality of CS nursing care are outlined have common dimensions of comprehensive women care plus women objectives and desires around surgery. It includes preoperative fasting and bowel planning, early oral intake, restricting utilize of drains and catheters, multi-modal analgesia, early ambulation, and prioritizing eu-volemia and normo-thermia. (Tarin et al., 2014; Thiele et al, 2015). Among the most crucial dimensions of quality is communication with women, responsiveness, provision of patient education, (World Health Organization 2018).

There is an agreement that quality services necessitates knowledgeable educated staffs who provides proper appropriate care respectfully and in well-prepared clinics. Nurses should know the purpose and physiologic impact of their actions during CS care on clients, and be able to evaluate women's responses to those actions. In addition meeting women informational needs, promoting women relaxation, and providing emotional support. The nursing assessments and interventions begin preoperative and continue through the labor and post-operative. In addition, any departure from the normal should be promptly documented and reported. All the aforementioned points have a remarkable influence on women's treatment process, improvement, and satisfaction (Rahman, , Rahim, , & Arif, (2017).

Satisfaction is a concept contains a attitude and response to an experience plus cognitive assessment of the emotional response. It represents a balance between woman perception of the expected nursing care and received. If the received care exceeds expectations, the woman is highly satisfied or delighted. It is the most frequently reported outcome measures for quality of care and monitoring of healthcare services (Varghese & Rajagopal., 2013). In addition, literature asserts, recognition of client's dissatisfaction is a valid, cost-effective method to improve the quality of care. So, the assessment of women's satisfaction and perceptions of labor experience are an important indicator to women themselves, organization, have implication on well-being of the mother, the mother-infant relationship, staffs for providing the best services for laboring mother (Alidosti et al., 2013; Naghizadeh et al., 2014).

2. Significance of study

The birth of a child normally or by cesarean is one of the most important and unforgettable experiences in a woman's life. It has long-term effects on their physical and psychosocial well-being. Therefore, it is essential that nurses providing quality of care understand its reflection on maternal satisfaction (Hall, et al 2018). Women's satisfaction with nursing services is very importance, due to the nature of nursing skills and practice, women may judge the quality of hospital upon it (Karimi, & Moghadam, 2017). Limited narrow studies have investigated maternal satisfaction with the quality of nursing practices for caesarean section at hospitals. So we aim to determine the quality of CS care and mothers.

3. AIM

To determine women's satisfaction level for elective CS based on the quality of nursing care offered.

Specific Objectives:

- Evaluate the quality of nursing care offered for cs.
- Assess women's satisfaction regarding pre, intra as well as postoperative care.
- Determine factors that may affect on woman's satisfaction.
- Identify the relation between quality of care offered for cs and women's satisfaction.

4. Material and methods

This research was quantitative, descriptive on 200 participants who underwent elective CS in the obstetrics and gynecology department at Mansoura University Hospital affiliated to Mansoura university at Dakahlia governorate. It was chosen for availability and accessibility of the women from all over Dakahlia Governorate, particularly from Mansoura city and all nearby areas; provides low cost health services compared with other private centers and clinics. Sample size was chosen according to Schlesselman, 1982 assay equation. Where: $N = \frac{P_1 + P_2}{2}$, $Q = 1 - P$, $Z_Q = 1.96$, and $Z_B = 0.84$

$$N = \frac{2Pq(ZQ)^2 + ZB)^2}{(P_1 + P_2)^2}$$

A purposive sample technique sampling was used. Mothers who did not have any recognized history of medical and mental diseases, gestational age from 37 weeks to 42 weeks and those who undergo elective cesarean section. Also, agree to participate on the study. For data collection, a questionnaire was used included three parts; the first is demographic data and obstetric and the 2nd is CS nursing care observation checklist woman was individually observed by the researcher using a 61-items checklist to collect data on intrapartum care, it was included 9 parts: Hospital Admission Procedures (7 items): such as receiving the woman and agreement, identification, preparing the woman for examination and taking the sample for analysis, Following of infection control practices (6 items) by health care providers, Emotional Support during the labor (5 items) to woman from nurses, Recording and reporting of information (5 items): It was used to assess the recording of all information related to mother's condition and reporting the results of all examinations, Nursing care pre-operative (11 items): such as assessment the, giving I.V fluids and drugs, measuring vital signs, fetal heart monitoring, etc. Nursing care intraoperative (5 items): It was related to nursing care which performed during the delivery of the baby, Nursing care immediate post CS (5 items): it was related to nursing care), Nursing care post-operative (11 items): It was related to nursing care performed after 2 hours CS and Giving health teaching (6 statements): about the importance of breast feeding, breast care, self-care, warning signs during pripreum, immunization schedule and appropriate time for using family planning methods. Scoring system. The care items observed to be completely done were scored "3", the items observed incompletely done were scored "2" and the items not be done were scored "1". Complete: mean the care offered was according to standardized care. Incomplete: missing some items of the standardized care. Not done: this means less than 25% of care is given or not given at all.

Assessment of women's satisfaction regards CS with 38 points mentioned by Rajeswar, (2011) then this part was modified by the researchers, and it contains a list of 38 statements that relate to the nursing care received by woman during CS and this questionnaire was provided with questions based on a Likert scale of 1 to 3 (Satisfied), (Uncertain) and (Unsatisfied) options implying the level of satisfaction about nursing care offered for cs 7 care domains. surrounding environment (6 items related to operating room calmness, lighting, temperature, smell, crowdedness and arrangement.), cleanliness (4 items cleanliness of rooms, beds, clothes and bath-room.), communication (10 items related to explanation of the things clearly, talking with the mother; as well as nurse's attentiveness, patience, kindness, calmness, support, encouragement, respect and reassurance), physical care (5 items) related to relief of pains, meeting woman's needs, care of the baby, frequency of examination and length of stay in the operating rooms.), care maintenance (4 items related to the presence of nurse nearly to woman for answering her questions, providing continual care and responding to woman's needs quickly.), psychological care (4 items related to maintaining adequate privacy during examinations and procedures, time of accessibility to her baby after delivery and time of breast feeding initiation (bonding).), patient approval in procedures (5 items related to woman's freedom to move about and to be in any position she likes, as well as making decision about drugs, anesthesia, nursing procedures and pain relief methods.). Scoring system: Every statement was given a score; satisfied was scored (3), uncertain was scored (2) and unsatisfied was scored (1). Range of response from 38-114. Total women satisfaction score will conducted according to total women response on the sheet. If the women total score from 77- 114 was considered satisfied. If the women total score at the level of 76 so their stratification will be judged as uncertain. If the total women scored 75 or less was considered dissatisfied.

The questionnaires were reviewed by 5 expertise's of from nursing and medical staff to judge content validity, and reliability by alpha Cronbach coefficient = 0.9. The pilot study done on 10% of the study subjects that represents 20 women and excluded from sample. Based on findings of the pilot study, certain modifications on the tools were done.

All ethical issues were followed in all of the study phases: an anonymity and confidentiality of the subjects were maintained. The researcher introduced herself to the women and briefly explained the nature and objective and women were assured that the study maneuver will cause no actual or potential harm to her. Also, they were assured that professional help will be provided for her whenever needed. Women were also assured that the information obtained during the study will be confidential and used for the research purpose only. An official letter sent to the director of the hospital to conduct the study after explaining and clarifying the aim of the study. The analyst attended the inpatient unit from 8, 00 pm till 5, 00 PM. four times per week this was repeated until the sample size achieved. Interviewing was carried out for each subject upon admission to the inpatient unit. The researcher introduced her to the mothers and explains the aim of the study in a simple way before teaching. The researcher started the interview, which lasted about 20 minutes. The study was carried out during the period from June 2017 to March 2018. Mothers were followed –up by the researcher until discharge.

5. Handling and analysis of data

All statistical analysis were done by SPSS for version 20.0. Descriptive statistics including frequency, distribution were used to describe different characteristics. Univariate analyses including Chi-Square test was used to test the significance of results of quantitative variables and Spearman. Rho correlation coefficient (r test). The significance of the results was at less than 5.

6. Results

The research includes 200 mothers the more than half of them (53%) were 30 to < 40 years old. The majority (83%) were housewives, only 15% had high education, and 70% were receiving antenatal care at government hospitals. (55%) of them monthly income insufficient. The mean gestational age was more than 37 weeks and underwent CS in the morning time (Table 1).

Table (2) indicates that the majority of studied women received a complete care during intraoperative nursing care & immediate post-operative nursing care 92.5% & 95.0% respectively. The higher percentage of them had received a complete care which related to recording and reporting and hospital admission procedures 57.5% & 65.0% respectively. Meanwhile, regarding nursing care postoperative two third of studied sample had received incomplete care (60.0%). Finally, 80.0% & 62.5% of them didn't received health education and emotional support respectively.

Table (3) indicated that, the higher percentage of studied women were satisfied with general environment, cleanliness, communication and physical care 75.0%, 75.0%, 65.0% and 58.0% respectively. While, 60.0% & 15.0% of them were respond uncertain and dissatisfied respectively with continuity of care. Moreover, 45.0% and 20.0% of women were dissatisfied and uncertain respectively with psychological care. Regarding involving in decision making, all of studied sample were dissatisfied.

Fig (1): women satisfaction level regarding CS care. It shows that 52.5% of studied sample were satisfied while 46.5% of studied sample were unsatisfied. only 1% of them were uncertain.

Table (4) illustrate that, women with age group from 30 to < 40 years were highly significant satisfied (61.9%, $p < 0.001$), living in urban (50.5%), had university education (0.9%, $p < 0.001$), not working (76.3%), and receiving care in Governmental hospital (74.3%, $p = 0.004$). while there are non-statistically significant differences between the residence, occupation, and income with level of satisfaction.

Table (5) reveals a highly statistically significance concerning women's satisfaction level and number of parity and history of caesarean section ($P = 0.005^*$). Also, number of gravida, number of abortion and gestational age with women's satisfaction level ($p < 0.05$).

Table (6) shows that, there was a highly statistically significance between all items of women's satisfaction and quality C S nursing care offered.

Table (7) shows a positive association between quality of CS care with the level of women's satisfaction.

Table 1: Distribution of the Studied Sample According to General Characteristics (N=200)

General Characteristics	No.	%
Age by year		
20 <30	52	26
30 <40	106	53
≥40	42	21
Mean ±SD	33.9 ±6.7	
Residence		
Rural	90	45
Urban	110	55
Educational status		
Illiterate	27	13.5
Primary	25	12.5
Preparatory	118	59
University	30	15
Occupational status		
Working	34	17
Not working	166	83
Place of health care		
Health center	39	19.5
Government hospital	140	70
Private	21	10.5
Cost of treatment		
Free	93	46.5
Health insurance	55	27.5
Private	52	26
Income sufficient		
Yes	90	45

No	110	55
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Table 2: Nursing Care during CS Stage in Different Aspects as Observed by the Researcher (N= 200)

Observation items	Total care(n= 200)	
	No	%
Hospital Admission Procedures		
Complete	130	65.0
Incomplete	70	35.0
Not done	0	0.0
Infection control practices		
Complete	60	30.0
Incomplete	140	70.0
Not done	0	0.0
Emotional support		
Complete	15	7.5
Incomplete	60	30.0
Not done	125	62.5
Recording and reporting		
Complete	115	57.5
Incomplete	85	42.5
Not done	0	0.0
Pre-operative nursing care		
Complete	100	50.0
Incomplete	100	50.0
Not done	0	0.0
Intraoperative nursing care		
Complete	185	92.5
Incomplete	15	7.5
Not done	0	0.0
Immediate post-operative nursing care		
Complete	190	95.0
Incomplete	10	5.0
Not done	0	0.0
Post-operative nursing care		
Complete	80	40.0
Incomplete	120	60.0
Not done	0	0.0
Discharge health education		
Complete	0	0.0
Incomplete	40	20.0
Not done	160	80.0

Table 3: Satisfaction Rates Among Studied Sample in Different Aspects (N= 200)

Satisfaction items	No (200)	%
General environment		
Satisfied	150	75.0
Uncertain	16	8.0
Dissatisfied	34	17.0
Cleanliness		
Satisfied	150	75.0
Uncertain	16	8.0
Dissatisfied	34	17.0
Communication		
Satisfied	130	65.0
Uncertain	20	10.0
Dissatisfied	50	25.0
Physical care		
Satisfied	116	58.0
Uncertain	34	17.0
Dissatisfied	50	25.0
Continuity of care		
Satisfied	50	25.0
Uncertain	120	60.0
Dissatisfied	30	15.0
Psychological care		
Satisfied	70	35.0
Uncertain	40	20.0
Dissatisfied	90	45.0
Involving in decision making		
Satisfied	0	0.0
Uncertain	0	0.0
Dissatisfied	200	100.0

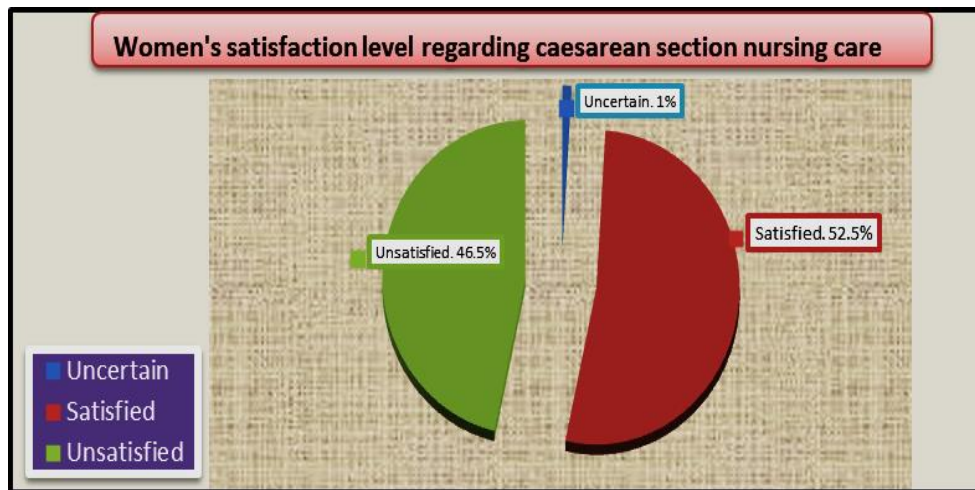


Fig. 1: Women Satisfaction Level Regarding CS Care.

Table 4: Relation between Women's Satisfaction Level and Socio-Demographic Characteristics of the Studied Women

	Satisfaction score(n=200)		Uncertain(=76)(n=2)		Unsatisfied(less than 76)(n=93)		Chi square test	
	No.	%	No.	%	No.	%	X ²	P
Age by year								
20 < 30	12	11.4%	1	50%	39	41.9%		
30 <40	65	61.9%	0	0%	41	44.1%		
≥40	28	26.7%	1	50%	13	14%	26.716	<0.001**
Residence								
Rural	52	49.5%	2	100%	36	38.7%		
Urban	53	50.5%	0	0%	57	61.3%	4.799	0.091
Educational status								
Illiterate	9	8.6%	0	0%	18	19.4%		
Primary	7	6.7%	0	0%	18	19.4%		
Preparatory	88	83.8%	2	100%	28	30.1%		
University	1	0.9%	0	0%	29	31.2%	66.157	<0.001**
Occupational status								
Working	12	11.4%	0	0%	22	23.7%		
Not working	93	88.6%	2	100%	71	76.3%	5.639	0.060
Place of ANC								
Health center	24	22.9%	0	0%	15	16.1%		
Government hospital	78	74.3%	2	100%	60	64.5%		
Private	3	2.9%	0	0%	18	19.4%	15.467	0.004*
Income sufficient								
Yes	42	40%	2	100%	46	49.5%		
No	63	60%	0	0%	47	50.5%	4.253	0.119

X²: Chi-Square test*significant at P≤0.05.**Table 5:** Relation between Women's Satisfaction Level and Obstetric History of the Studied Women (N=200)

Items	Satisfaction score		Uncertain(=76)(n=2)		Unsatisfactory(less than 76)(n=93)		Significance
	No.	%	No.	%	No.	%	
Gravidity							
One	3	2.9	2	100	2	2.1	X ² =64.850P<0.001**
Two	74	70.4	0	0.0	47	50.5	
Three or more	28	26.7	0	0.0	44	47.4	
Parity							
None	3	2.9	2	100	2	2.1	X ² =65.912P<0.001**
One	48	45.7	0	0.0	26	28.0	
Two	26	24.7	0	0.0	21	22.5	
Three or more	28	26.7	0	0.0	44	47.4	
Abortion							
None	95	90.4	0	0.0	61	65.6	X ² =24.960P<0.001**
One or more	10	9.6	2	100	32	34.4	
History of caesarean section							
yes	30	28.6	0	0.0	51	54.8	X ² =15.496P<0.001**
No	75	71.4	2	100	42	45.2	

X²: Chi-Square test*significant at P≤0.05.**Table 6:** Correlation of CS. Nursing Care with Women's Satisfaction Items for the Studied Women

Women's satisfaction items	Quality of intrapartum nursing care	
	r	p
General environment	0.690	<0.001**
Cleanliness	0.438	<0.001**
Communication	0.306	0.0001*
physical care	0.195	0.004*
Continuity of care	0.195	0.006*

Psychological care	0.238	0.0001*
Involving in decision making	0.239	0.002*

*Statistical significant at p-value<0.05 **highly statistical significant at p-value<0.001.

Table 7: Association of quality of CS Nursing Care with Women's Satisfaction Level

Women's satisfaction level	quality of cs nursing care	
	r	p-value
	0.438	0.0001*

**Statistically Significance at $p \leq 0.001$.

7. Discussion

Validating quality of nursing care is the most key challenges fronting maternal services and women satisfaction with this is a crucial parameter for assessing it. Maintaining and monitoring the quality of health care can result in service development and improvement (Sehaty et al., 2016; Corso et al., 2016). The present study findings will be helpful if it transformed into scheduled plans for improving the quality of health care system.

Concerning quality of CS nursing care the present study exposed that half of studied mothers had received incomplete care preoperative and perioperative. The current study finding is in line with the study of Changae, et al (2014) in Iran about the quality assessment of perioperative CS care. Regarding the nursing care of postoperative, the current study indicated that, majority of studied sample had received incomplete and below standard care which in the same line with (Lotto, 2015), who concluded that the quality of postnatal care presented to clients was poor, below standard and nurses did not compliance with predetermined guide-lines for managing postpartum mothers. Therefore, organization should emphasis on mothers need and proper assessment and management during the first 24 hours after CS to get most favorable outcomes.

Regarding nurses compliance with infection control measures only one third of infection control measures were done. This finding was supported by Mohamed, (2007) who reported the same result. This may be due to lack of nurses' knowledge, training programs or lack of resources and time. The current study findings were disagree with the study of Fashafsheh, et al. (2015) who studied performance of nursing staff towards infection control measures in the Palestinian hospitals; they mentioned that, the common of the sample had skillful practice of infection control.

Satisfaction with general environment is a considerable predictor of women's general satisfaction and experience of labor (Yuenyong, Obrien & Jitapeet, 2012). Regarding women's satisfaction level in relation to general environment and cleanliness, the study findings revealed that, the majority of mothers were satisfied with. The current study finding is agreed with Khumalo, (2014) & Kavitha et al. (2014), who found that, the satisfaction levels among women was high with general environment. It may be due to emphasizing on cleaner to do their duties properly.

Evidence from our data explored a high level of physical care satisfaction but satisfaction with continuity of care and psychological support were low. This is consistent with other studies Perriman, & Davis, (2016) found that, majority of women were satisfied with the physical care but not with its continuity. Generally these results may be due to the nurse left the woman for a long period of time particularly preoperative. The present study finding is disagree with the study of Dahlberg, & Aune, (2013) in Australia, which strongly indicated that the presence of a known midwife during labor helped women feel supported. Also, Kavitha et al. (2014) in Eritrea who assessed mother's satisfaction with intra-operative nursing care among mothers postnatal. They mentioned that, the majority of sample were highly satisfied regarding emotional and psychological support. Also, the study of Mbeinkong (2010) in Burea showed that most of women reported attendance by the nurse at regular intervals and showed their care.

As regards involving women in decision making, the results of this study illustrated all women dissatisfied. Involvement in decisions can affect women's perceptions of satisfaction. This result is disagree with the recent research of Lumadi, and Buch (2011) in South Africa, who mentioned that, one third of mothers were satisfied with the way in which they had been involved in decision making related to their care. Therapeutic communications significant themes that were identified as influencing client's satisfaction with care. It involves (listening, good manners, prompt relaxation, sympathy and smiling), caring behavior (caring to needs, acceptance of clients and sweet-talk) and interpersonal skills of nurses (self-assurance and competency) (Dzomeku, 2011). Nurses should emphasize on communication skills and the manner of providing education to mother can elevating satisfaction. Concerning women's satisfaction with communication behaviors of nursing staff the current study findings showed slightly more than two thirds of studied sample was satisfied with nurses' communication. This result agreed with a study of Perriman, & Davis, (2016) in Pakistan who show that about eighty of studied mothers were satisfied with communication factor. In this respect, Shafiei, et al. (2012) in Australia showed that the nature of interaction with nurses was mentioned by all women as particularly important in their satisfaction or dissatisfaction with the care they received during childbirth.

Our result is less than study of Melese, et al (2014) who showed that this studied sample were highly satisfaction with the health care providers communication. Bitew et al., 2015 revealed that, more than 95% of reported that they were satisfied with communication with health care providers. Also, study of Amir, et al (2017) revealed that satisfaction with communication and explanations given were significant. The current study findings were disagreed with Mohammed, et al (2014), who found in Jordan that, only 13.0% of women were satisfied with interpersonal communication. These differences in findings may be due to the difference in areas of the studies and the difference in population and their expectations and experiences.

This study revealed that dissatisfaction of women with health education and given information post-operative. This is in the same line with (Jagannathan & Tilak, 2008) who reported dissatisfaction with given information. Similarly, Azari et al., 2013 reported that post-operative education was not significantly satisfied with the care provided. In other studies by Izbizky et al., (2008) & Nagizadeh (2009) satisfaction with health education was high. It could be due to different care systems. The low satisfaction rate could be explained by as the lack of time devoted to each patient as a result of crowded hospitals in our country but we have to do our best.

In the light of current study there were a statistically significance between women's satisfaction level, their age, number of parity and previous CS. As observed the most of satisfied women were aged from 30 < 40 years old and in para one. The current study findings are harmony with Jallowet al., (2012) who mentioned maternal general characteristics affected women's perceived of satisfaction with care. Maternal age and education were positively associated with satisfaction, Also Sehaty et al (2016) mentioned that there was significant association between satisfaction and woman's educational status.

The current study findings are in disagree with recent study of Singla et al. (2015), who reported that, there is no statistically significant association between general characteristics (age, education, socio-economic class) and level of satisfaction. Moreover, Mohammed (2015) found that, there is no significant relation between general characteristics (age, and occupation) and level of women' satisfaction. The current study findings are in contrast with Mohammed (2015), who found a relation between general characteristics (education, and residency) and level of satisfaction. Furthermore, Younas, & Sundus, (2018), reported that, there is no statistically significant relation between general characteristics (age, family income, and gender) and level of satisfaction. Moreover, Melese, et al (2014) who revealed that studies from low- and middle-income countries showed that there is advanced satisfaction rates amongst those who can pay more for health organization (Bitew et al., 2015; Srivastava et al., 2015; Corso et al 2017). The possible explanation that the study setting provides low and high cost health service for women so satisfied women got a special paid care. The difference in the finding between the past and recent studies may be due to the difference in areas and times of these studies, difference in nature of people from country to another (their culture, social status and experiences). Also, this may be due to the difference in facilities of hospital, knowledge and practices of nursing staff.

Finally the current study findings revealed that, there was a statistically significance between women's satisfaction with quality of nursing care offered. This is in accordance with Azizi et al (2012) who conducted a study to assess the relationship between nursing caring behaviors and patients' satisfaction in Iran. They observed a significant positive correlation of nursing caring behavior with patient satisfaction. Also, the current study on the same line with the results of Akhtari et al. (2010), who noticed that, there was a positive association of patients' satisfaction with quality of care. On the other hand the current study findings are in contrast with Soliman, Kassam, and Ibrahim (2015), who found a negative association of nurses' caring performance with patients' satisfaction.

8. Conclusion

Our study revealed that majority of studied women had received a complete nursing care regarding hospital admission procedures, intraoperative & immediate post-operative, recording and reporting. Meanwhile, the majority of them had received incomplete infection control practices and didn't receive emotional support nor discharge health education.

The current study indicated that, there are several factors that affected on women's satisfaction. The higher percentages of studied women were satisfied with general environment, cleanliness, communication and physical care and dissatisfied with psychological care, continuity of care and involvement in decision making. There was a highly statistically significance between the level of women's satisfaction with quality of CS nursing care offered.

9. Recommendations

- Woman satisfaction is an imperative health care outcome its assessment is recommended to be a part of hospital quality of care monitoring and improvement programs.
- The hospital needs to organize training sessions for nurses derived from the service quality assessment and women satisfaction.
- Plan is necessary to develop the quality of health education to get clients satisfaction.
- The mother needs health education regarding physical preparation on issues surrounding cesarean section, that can reduce distress and improve women's satisfaction with birth.
- Continuity of care, emotional support and involvement of laboring women in decision making should be enhanced to improve their satisfaction.
- Woman satisfaction is an imperative health care outcome, its assessment recommended to be a part and parcel of hospital quality of care monitoring and improvement programs
- further studies:
- Further studies must identify factors responsible for the low quality of nursing care offered for cs.

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