

Original Research Article

A Questionnaire Study to Assess the Patient's satisfaction Level After Caesarean Section

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Abstract

Aim: To assess the level of satisfaction with caesarean delivery and to see the relation between different parameters and satisfaction. **Materials & Method:** This was a cross sectional study. A total of 423 post-caesarean women were included in the study. The structured questionnaires were used for the collection of data from the patients and the data were processed and analyzed with the help of software SPSS. **Results:** During the study period, among the 465 caesarean delivery 423 were enrolled for the study. The mean age of the patients was 23.99±5.29 years and mean parity was 1.22±1.27. Initial negative reaction to the decision of caesarean section was expressed by 71.9% of the patients, 18.4% remained indifferent and 9.7% showed positive reaction. The major reasons of initial negative reaction were fear of death and dislike of caesarean section. The satisfaction following caesarean delivery was significantly associated with age, educational status and initial positive and negative reaction to the decision of caesarean section. Three hundred and fifty five (83.9%) women expressed their overall satisfaction following caesarean section. **Conclusion:** Most patients expressed their overall satisfaction to caesarean delivery.

Key words: Satisfaction, Surgery, Caesarean section.

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Introduction

Caesarean section (CS) is the most frequent major abdominal surgery performed worldwide[1]. Increasing rates of CS is a matter of concern in many countries[2] and in the USA caesarean delivery accounts for 30% of all births[3]. The increasing caesarean rates not only exist in developed countries, it also reported from developing countries. In developed countries, while fear of birth, increasing maternal age at marriage and first pregnancy, fear of pelvic floor damage, and genital prolapse in later years are implicated reasons[6-10], in developing countries, the view that caesarean section is the surest way to a live birth is believed to be a critical factor underlying their choice[11]. As a result, the numbers of pregnant women who have previously had a caesarean are also rising, however, the rates of Trial of Labour after CS are decreasing world wide[12].

There are known risks of elective CS such as the increased risk of persistent pulmonary hypertension and respiratory distress syndrome in the new born[13,14]. A higher likelihood of uterine infection, wound complication, cardiopulmonary and thromboembolic condition[15] and future ectopic pregnancies and placental problems[16] are also observed following CS. However, improved quality of anaesthesia service, good surgical technique, available blood transfusion facility and antibiotic therapy have raised the safety profile of surgical delivery. CS is still being perceived as an abnormal means of delivery by some women in developing countries[17], the negative view of CS by them has led to gross under-utilization of the procedure compared to the large burden of obstetric morbidity requiring resolution by CS[18].

Patient satisfaction considered as one of the most important quality dimensions and key success indicators in health care[19]. Oliver[20] defines satisfaction as the consumer's fulfillment response, a post consumption judgment by the consumer that a service

provides a pleasing level of consumption related fulfillment. Here consumers are the post-caesarean patients.

Though CS is an essential component in emergency obstetric care a few women prefer it as a mode of delivery[21]. It is important to accept it as a beneficial procedure for the pregnant mother when needed. Women's satisfaction with CS is an essential factor for such acceptance. Maternal satisfaction is multidimensional and is influenced both by medical and social factors.

Satisfaction with the mode of delivery is a useful indicator of compliance and re-attendance for treatment, and influences future management and provision of health care. Dissatisfaction can lead to sexual dysfunction, aversion to pregnancy and delivery, and increased complaints and litigation[22,23].

Every health care service provider should assess how much he/she can satisfy his/her patients. Satisfied patients are likely to exhibit favorable behaviour, which are beneficial to the healthcare provider's long-term success. This study was designed as a preliminary study to assess the level of satisfaction among the parturients who had recently delivered by caesarean section and it may provide a reference for future in-depth analysis.

Materials and Methods

This prospective, observational, descriptive, study was conducted at Department of Gynaecology, at ESI PGIMS, Basaidarapur, New Delhi, India. The study was approved by the institutional research and ethical committee. The study was conducted between January 2014 and December 2015. An informed and written consent was taken from the participating subjects prior to the commencement of the study.

During the study period total of 893 delivery occurred, among them 465 women delivered by CS. The post-caesarean patients were the study population. Patients were interviewed on 2nd to 6th post-operative day after the recovery of initial trauma of surgery. The inclusion criteria were met by 443 of 465 post-caesarean women, among them 20 mothers withdrawn themselves from the study and 423 were enrolled in the study. Exclusion criteria were postpartum eclampsia, severe postpartum haemorrhage requiring re-laparotomy with hysterectomy, postpartum psychosis, severe cardiac and respiratory diseases, wound infection with burst abdomen or any condition requiring referral to the higher centre and severe neonatal conditions

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or neonatal death. These patients were severely ill and were unwilling or unable to take part in the study, therefore they were excluded.

The variables included in the study were age, parity, educational status, types of CS. The initial reaction to the decision of CS, the reasons of reaction and the satisfaction following CS were also studied. The structured questionnaires were prepared which include all the variables of interest. After explaining the objectives of the study and assuring that her response would never affect her treatment, verbal consent for participation in the study was taken.

The data were collected from the patients on variables of interest using the structured interview, observation and from the history sheet of the patients. The collected data were processed with the help of software SPSS (Statistical Package for Social Sciences) version-16 and analyzed.

The test statistics used to analyze the data were descriptive statistics, Chi-square, probability test for qualitative variables and unpaired student t-test for quantitative variables. For all analytical tests level of significance were set at $p < 0.05$.

Results

The socio-demographic characteristics of the patients are presented in the table-I. The mean age of the patients was 23.99 ± 5.29 years (range 18-45 years). Among the study population 240 (56.7%) were multipara and 183 (43.3%) were primipara. More than 90% of the patients had secondary and tertiary level of education. Emergency CS occurred in 301 (71.2%) cases and remaining 122 (28.8%) were elective CS.

Table 1: Socio demographic and clinical parameters of the patients

Parameters	Number (n=423)	Percentage
Age (years)		
< 20	66	15.6
20 - 29	291	68.8
30 - 39	61	14.4
> 39	5	1.2
Parity		
0	183	43.3
1 - 4	237	56.0
≥ 5	3	0.7
Educational Status		
Primary	41	9.7
Secondary	185	43.7
Tertiary	197	46.6
Types of caesarean section		
Elective	122	28.8
Emergency	301	71.2

Table-II shows the initial reaction and their reasons to decision of caesarean delivery. Most of the patients (90.3%) were negative and indifferent to the decision of caesarean delivery. The major reasons of negative reaction were fear and dislike of CS.

Table 2: Reasons of Initial reaction to decision of caesarean section

Initial reaction and reason	Number	Percentage
Positive (n=41)		
Prolonged Labour Pain	22	53.7
Previous experience	14	34.1
No reason	5	12.2
Negative (n=304)		
Fear	177	58.2
Dislike	57	18.8
No reason	45	14.8
Previous bad experience	14	4.6
Suddenness	11	3.6
Indifferent (n=78)		
Previous experience	51	65.4
No reason	27	34.6

The table 3, 4 represent the relation between the study parameters and the level of satisfaction following caesarean section. The statistically significant relation was established between satisfaction with CS and mean age, educational qualification and initial reaction to CS. Among the study population, 355 (83.9%) patients expressed their satisfaction with CS as a mode of delivery.

Table 3: Relation between demographic and clinical parameters and satisfaction following caesarean section

Parameters	Satisfaction following caesarean section		X ² value/t value	p value
	Satisfied (n=355) No (%)	Not satisfied (n=68) No (%)		
Age (in years)				
Mean SD	24.3±5.3	22.1±4.5	3.115	0.002
Parity				
0	157(44.2)	26 (38.2)	1.52	0.467
1-4	195 (54.9)	42 (61.8)		
>= 5	03 (0.9)	0 (0.0)		
Educational status				
Primary	39 (11.0)	2 (3.0)	8.07	0.018
Secondary	146 (41.1)	39 (57.3)		
Tertiary	170 (47.9)	27(39.7)		

Types of caesarean section				
Elective	109 (30.7)	13 (19.1)	3.73	0.053
Emergency	246 (69.3)	55 (80.9)		

Table 4: Relation between initial reaction to decision of caesarean section and satisfaction following caesarean section

Satisfaction following caesarean section					
Initial reaction	Number	Satisfied No (%)	Not satisfied No (%)	X ² value	p value
Positive	41	41(100.0)	0(0.0)	8.69	0.003
Negative	304	243(80.0)	61(20.0)	12.75	<0.001
Indifferent	78	71(91.0)	7(9.0)	3.57	0.058
Total	423	355	68		

Discussion

Satisfaction provides the positive image of health services delivered. Jackson et al[24] suggests that patient satisfaction is strongly influenced by patient- doctor communication variables. In case of child birth mode of delivery is the factor of concern. In this study most of the pregnant mother (90.3%) expressed initial negative reaction or remained indifferent to the decision of CS. The main reasons of such negative attitude were fear of death, dislike of caesarean operation and previous bad experience. No reason of such reaction was also found. This result is consistent with the result of other studies[25-27] where significant number of parturient were averse to CS initially and the main causes were also fear of death and dislike of caesarean delivery. In this study out of 423 study population 355(83.9%) expressed their overall satisfaction with caesarean delivery. Other studies[23,27] in different countries reported that 80% of the patients were satisfied with CS. Our study was done in a secondary level hospital which is the only referral hospital in the district. We talked to the parturient after 2nd post- operative day during when their pain and discomfort were reduced and withstand their initial trauma. These may be the contributing factor for slightly higher level of satisfaction. The mean age of the patients was 23.99±5.29 years and range was 18-45 years. The satisfied women were slightly aged (mean age 24.3±5.3 years) than unsatisfied women (mean age 22.1±4.5 years) and it was statistically significant. It was supported by other international studies[27,28] where increasing maternal age was significantly associated with satisfaction for caesarean delivery. There was a significant association between the educational status of the patients and satisfaction with caesarean delivery. Educated patients are probably more careful about their own health and the health of their babies. They can understand physicians' language more easily at the counseling session about the indications of CS. The patients with elective CS had higher satisfaction than emergency operation. This probably due to in case of elective operation patients have got enough time for preparation and mind setup in favour of CS. Table-IV reveals that all the 41 initial positive women became satisfied following caesarean delivery. Out of 304 initial negative women, 243(80.0%) expressed their satisfaction with CS. A number of indifferent women (71 out of 78) also noticed their satisfaction following CS. It is obvious that both the initial positive and negative reaction to the decision of CS were statistically significantly associated with satisfaction following CS (p<0.05). The significant association was also found in the study done by Enabudoso E and Isara AR[27] in Nigeria. This study was done on the 2nd to 6th post-operative day when the mothers were very emotional and happy with their babies. Getting a healthy baby mother may forget all the pains, distresses and negative feelings associated with CS. On the other hand patients of major complications were excluded from the study. These may be the possible explanation of disparity between initial negative reaction and number of satisfied mothers. Similar views have been reported in earlier studies[29-31].

Conclusion

In conclusion, there was a high level of satisfaction in the mother who delivered by CS. Although this study did not explore the specific areas of satisfaction like satisfaction with hospital facilities, services provided by health care providers, it may be regarded as the preliminary survey for the future in-depth study.

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