Factors Affecting Satisfaction Regarding Maternity Services Among Postnatal Mothers in a Tertiary Hospital of Kathmandu

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**Abstract**

**Background**
Maternal satisfaction towards care provided during pregnancy, childbirth and puerperium is one of the key outcome measures for quality of care. In order to provide satisfactory maternity services health workers should focus on mother-friendly care. Various factors may affect on mothers' satisfaction regarding maternity services. The objective of this study was to assess the factors affecting satisfaction regarding maternity services among postnatal mothers.

**Materials and Methods**
A descriptive, cross-sectional study was conducted in postnatal ward of Kathmandu Medical College Teaching Hospital. A total of 180 postnatal mothers were purposively selected for the study. Ethical clearance was obtained from the institutional review committee of Kathmandu Medical College. Face to face interview technique was used to collect the data using pre – designed structured questionnaire. Data collection was done from June to July 2019. Data were analysed using Statistical Package for Social Science 20.0 version. Both descriptive and inferential statistics were used for data analysis.

**Results**
Majority (83.9%) of the mothers were satisfied with overall maternity services. The level of satisfaction was higher in (82.8%) environmental factor, (80%) health care delivery system of hospital and (73.3%) communication. There was significant association between sexes of current child with maternal satisfaction. Mothers having current child male were more satisfied with maternity services provided by the hospital (COR: 4.90 with 95% CI: 1.97, 12.18).

**Conclusion**
The study concluded that majority of postnatal mothers were satisfied with maternity services provided at hospital. Current child male was significantly associated with satisfaction level of mothers on maternity services.

**Key words:** Mother, Nursing, Satisfaction

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Introduction
Quality maternal care is directly related to the possibility of mothers for timely and appropriate treatment in order to achieve desired outcomes. The use of services and outcomes are the result not only of the provision of care but also of women’s experience of that care. Unfortunately, quality of care received by mothers and babies in developing countries is often reported as poor [1]. Satisfaction with healthcare services is defined as "the extent to which the patients seeking treatment experience positive perception of the care provided by the nursing or medical staff. "When patients are satisfied with the care provided by the healthcare staff, they are more likely to utilize health services in future. Providing high quality of care in maternity services involves giving mothers the best possible medical care and outcome during pregnancy, labor, and postnatal period [2]. Satisfaction is one of the most frequently reported outcome measures for quality of care so assessment of satisfaction with maternity services is crucial [3]. Maternity services are focused on the health of women during antenatal, natal and postnatal period. Globally, all most all (99%) maternal deaths take place in developing and low-income countries due to poor utilization of available services [4]. Labour and delivery is a crucial experience in women's life because it has great impact on physical, mental and emotional health. A pleasant experience during childbirth is important for both maternal and neonatal health and well-being. Thus it is essential for the health care providers to providing best support to childbearing women [5]. In Nepal, findings of a facility-based survey showed majority of the women were satisfied with care received at the facility, provider's skill, being involved in decision-making process, cleanliness, information received and confidentiality. To bring about positive experience of women, maternity care in Nepal should focus on improvement in physical environment along with improving the attitude and communication skill of service providers [6]. Overall 45.1% of mothers were satisfied with the perinatal care in a study carried out in tertiary hospitals of western Nepal. In that study main factors associated with satisfaction were type of hospital, religion, education, parity, number of living children, mode of delivery, gestational age at birth, maternal condition after delivery, newborn health condition, and duration of stay at the hospital [7].

Materials and Methods
Descriptive cross sectional study was conducted to find out the factors affecting satisfaction regarding maternity services among postnatal mothers of postnatal ward of Kathmandu Medical College, Teaching Hospital. Data collection was done from June and July 2019. For the ethical consideration, approval for the study was obtained from institutional review committee of Kathmandu Medical College, permission for data collection was taken from the concerned authority of hospital and written consent was obtained from each respondents of the study. The study population consisted of postnatal mothers who gave birth at hospital and were about to be discharged from the hospital. Mothers who were admitted in the hospital after home delivery, having intrauterine fetal death, severely ill client and not willing to participate in the study were excluded from the study. Sample size was calculated based on prevalence of similar study [8]. The sample size was calculated by formula $\text{Z}^2pq/e^2$ with the desired precision of 5% (95% confidence interval at an allowable error of 5%) prevalence of maternal satisfaction = 0.61. To reduce nonresponse rate, additional 5% was taken. The sample size was 180. Total 180 postnatal mothers who met the inclusion criteria during data collection period were selected for the study by using non probability purposive sampling technique. Face to face interview technique was used to collect the data using pre designed structured questionnaire. Questionnaire was divided into three parts: part I consist of socio demographic characteristics of mother, part II consist of obstetric characteristics of mothers and part III consist of five point Likert scale to measure the satisfaction of mothers regarding maternity services on different factors. Score 5 was given for very satisfied, 4 was satisfied, 3 for neither satisfied nor dissatisfied, 2 for dissatisfied and 1 for very dissatisfied. Total score was 130. Out of 130, ≤78 was considered dissatisfied and >78 was considered satisfied [9]. All the collected data were entered in Microsoft excel 2010 and were analysed using Statistical Package for Social Science (SPSS) 20.0 version. Both descriptive and inferential statistics were used for data analysis. Sociodemographic and obstetrical information of the respondents were presented in frequency and percentage. Chi square test was used to reveal the association between demographic and obstetric variables with satisfaction regarding maternity services among postnatal
mothers considering p – value <0.05 as significant. The strength of association between demographic and obstetric characteristics was measured by odd ratio at 95% confidence intervals.

**Results**

Socio-demographic profile of the mothers is illustrated in Table 1. Majority of the mothers (66.7%) were between age group of 20 to 30 years with the mean ± S.D = 27. 533 ± 4.10 years. According to ethnicity of mothers, Majority of mothers (45.0%) were Janjati. Likewise, Majority (72.8%) of the mothers were Hindus. Regarding educational status of the mothers, 30.6% had secondary level and 29.4% had higher secondary level. By occupation, nearly half (47.2%) of the mothers were homemaker followed by 6.1% daily labourer.

Table 2 shows obstetric characteristics of the mothers, more than half (57.8%) of the postnatal mothers were primparous and 56.7% had caesarean delivery. Regarding the sex of current baby, More than half (55 %) of the mothers have male baby and 45% have female baby. More than half (56.2) of the mothers had stayed in hospital for four and more days.

Table 3 shows that management and administrative factors those affect overall satisfaction and dissatisfaction of mothers in five domain, among five domain, 82.8% mother were satisfied in environmental factors of hospital and 80% of mothers were satisfied with health care delivery system of hospital, 73.3% of mothers were satisfied in communication and information techniques, 72.2% of mothers were satisfied with physical and staff accessibility and least 69.3% of mothers were satisfied with attitude and behaviour of health care provider. Majority of the mothers (83.9) were satisfied on maternity services provided at hospital.

Table 4 reveals that there was significant association between sexes of current baby and satisfaction level of postnatal mothers. There was no statistically significant association of other socio-demographic and obstetric variables with satisfaction level of postnatal mothers.

Similarly, post-natal mothers who have a male baby in recent were 4.901 times satisfied than those who have female baby as recent child which is statically significant at 5% level of significance(p= .001, OR 4.90, 95% CI = 1.97 – 12.18) Table 5.

**Discussion**

Satisfaction is one of the most frequently reported outcome measures for quality of care so assessment of satisfaction with maternity services is crucial [3]. Satisfaction depends on quality healthcare provided to clients. Maternal satisfaction with pregnancy and childbirth is not only
The finding of this study related to satisfaction on maternity services showed that majority of the postnatal mothers (63.3%) was satisfied with nurses listening to their problems. This finding was consistent with the findings of a study conducted by Melese which showed majority of the respondents (69%) were satisfied with nurses listening to their problems [12]. The study reveals that around two third (60%) of the postnatal mothers were satisfied with information about procedure and examination. In contrast to the study done by Melese showed that below half of the postnatal mothers (45.4%) were satisfied with information about procedure and examination [12]. Two third (65.6%) of postnatal mothers were satisfied with information provided at the time of discharge. Similarly, this finding is consistent with the survey report of Nepal showed that 69% respondents were satisfied with information received by staff about discharge [6].

In the present study, 73.3% of mothers were satisfied with communication and information aspect of care. This finding is inconsistent with the study conducted in Nepal by Panth showed that 91.5% of mothers were satisfied in informative aspect of care [9]. Regarding overall satisfaction, Majority of the postnatal mothers (83.9%) were satisfied on maternity services. This finding is consistent with the study done in Nepal by Panth which showed that 89.8% of mothers were satisfied on maternity services. In present study, there is no statistically significant association between socio demographic variables and maternal satisfaction however; there is significant association between sexes of current child and maternal satisfaction. This is consistent with the study conducted by Panth which showed that there is no statically significant association between socio demographic variables with maternal satisfaction and significant association between parity and satisfaction of postnatal mothers [9].

### Table 5: Binary Logistic Regression of selected factor related to satisfaction of maternity services

| Variable                      | OR    | 95% CI     | P-value |
|-------------------------------|-------|------------|---------|
| Sex of current child          |       |            |         |
| Female (Ref)                  | 4.901 | 1.97 - 12.18 | 0.001   |
| Male                          |       |            |         |

### Table 4: Association between socio demographic and obstetric characteristics with satisfaction level (n= 180)

| Characteristics               | Dissatisfied No. | Satisfied No. | p-value |
|-------------------------------|------------------|---------------|---------|
| Age in years                  |                  |               |         |
| 20 - 30                       | 21               | 98            | 0.434   |
| 31 - 39                       | 8                | 53            |         |
| Educational status            |                  |               |         |
| Primary & secondary           | 17               | 12            | 0.287   |
| Higher secondary & above      | 72               | 79            |         |
| Occupation                    |                  |               |         |
| Homemaker                     | 12               | 17            | 0.496   |
| Service and business          | 73               | 78            |         |
| Parity                        |                  |               |         |
| Primiparous                   | 13               | 63            | 0.756   |
| Multipara                     | 16               | 88            |         |
| Mode of delivery              |                  |               |         |
| Vaginal                       | 13               | 65            | 0.859†  |
| Caesarean                     | 16               | 86            |         |
| Sex of recent baby            |                  |               |         |
| Male                          | 7                | 92            | <0.001† |
| Female                        | 22               | 59            |         |
| Duration of hospital stay     |                  |               |         |
| Below four days               | 17               | 86            | 0.868   |
| Four and above days           | 12               | 65            |         |

* Chi – square test
services was associated with sex of current child; mothers having male child were more satisfied in reference to female child. The findings of the study suggested to improve the attitude of hospital staff. The study could be done in community setting where postnatal mothers could freely express their satisfaction regarding the service they have received.

References
[1] Van den Broek NR, Graham WJ, Quality of care for maternal and newborn health: the neglected agenda, An Int. J of Obstet. and Gynaecol.116: 1(2009) 18–21 doi: 10.1111/j.1471-0528.2009.02333.x.
[2] Okumu C, Oyugi B, Clients’ satisfaction with quality of childbirth services: A comparative study between public and private facilities in Limuru Sub-County, kiambukena. Pubmed 3:3(2018) DOI.org/10.1371/journal.pone.0193593.
[3] Sawyer S, Ayers J, Abbott G, Gyte H, RabeH, Duley L, Measures of satisfaction with care during labour and birth: a comparative review, BMC Pregnancy and Childbirth. 13:1(2013)108. DOI: org/10.1186/1471-2393-13-108
[4] World Health Organization, Fact sheet on maternal mortality with key facts and providing information MDG4 (2015) [Cited 2019 January] Retrieved from: www.who.int/mediacentre/factsheets/fs348/en/WHO
[5] Bertucci V, Boffo M, Mannarini S et al., Assessing the perception of the childbirth experience in Italian women: a contribution to the adaptation of the childbirth perception questionnaire, Midwifery, 28:2(2012)265–74. DOI: 10.1016/j.midw.2011.02.009.
[6] Paudel YR, Mehata S, Paudel D et al., “Women’s satisfaction of maternity care in Nepal and its correlation with intended future utilization,” Inter J of Reproductive Medicine, (2015)9. Article ID 783050 doi.org/10.1155/2015/783050
[7] Regmi S, Kaphele HP, Gupta N, Maternal satisfaction regarding perinatal and influencing factors in tertiary hospital of western Nepal. Medical science intmedia J.6:3(2017)471-75 doi: 10.5455/medscience.2017.06.8595
[8] Tayelgn A, Zegeye DT, Kebede Y, “Mothers’ satisfaction with referral hospital delivery service in Amhara Region, Ethiopia,” BMC pregnancy and Childbirth.11:78 (2011)doi: 10.1186/1471-2393-11-78.
[9] Panth A, Kafle P, Maternal satisfaction on delivery service among postnatal mothers in a government hospital Mid-Western Nepal. Obstet. and Gynaecology Inter.J.(2018). ArticleID4530161, DOI: https://doi.org/10.1155/2018/4530161
[10] Bitew k, AyichiluhmM, Yimam K, Maternal satisfaction on delivery service and its associated factors among mothers who gave birth in public health facilities of Debre Markos Town, Northwest Ethiopia. BioMed Research Int vol.2015(2015)6 DOI: 10.1155/2015/460767
[11] Sapkota DK, Sapkota M, Shrestha KB, Mothers’ satisfaction on maternity Care Services in bharatpur hospital Chitwan, Nepal. Int. J of Scientific and Research Publications. 8:9 [2018] doi: 0.29322/JSRP.8.9.2018.
[12] Melesse T, Gebrehiwot, Y., Bisetegne, D, & Habte, D. Assessment of client satisfaction in labor and delivery services at a maternity referral hospital in Ethiopia, Pan African Medi J. 17 (2014)1-8. DOI:10.11604/pamj.2014.17.76.3189