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# A Study of Maternal Breast Feeding Issues during Early Postnatal Days

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### Abstract

Background: The success in breast-feeding is dependent on early initiation and effective management of breast feeding problems during early postnatal days. Objectives: To identify breast feeding problems and their etiologies during early postnatal days until discharge from hospital. Methodology: Descriptive study done in a medical college hospital. One hundred and twenty mothers in early postnatal days were enrolled in the study. Sick mothers, sick neonates admitted in NICU for >24 hours and where breast-feeding was contraindicated were excluded. Data was collected by direct interview with the mother by the investigators and were entered in the proforma. The questionnaire contained general information of the mothers, self-reported and observed problems about breast feeding. The first interview was carried out within 12 hours of delivery after taking informed consent. Follow up interviews were done on 24 hourly basis until discharge. Data was analyzed statistically. Results: Mothers were aged between 22 to 40 years with more than half in 26-30 years range. Majority were homemakers and educated up to high school. 31(25.8%) were primi mothers. 64(53%) had vaginal and 56(47%) had caesarean deliveries. 61.6% of the mothers knew about colostrum and its benefits. Most (98.3%) of the mothers felt that there is a need for education about breast-feeding. Majority had initiated breast feeds within an hour or at least within 4 hours (LSCS mothers). Insufficiency of milk and problems with latching, positioning and sucking were some of the problems noted. Though most of the problems were resolved before discharge, few persisted until discharge. Perceived milk insufficiency, latching problems and breast problems were higher in primi and found to be statistically significant. Objective problems like poor positioning, sucking etc were higher among primi and caesarean mothers. Even problems that remained at discharge were also more among them. Conclusions: Most common problems were positioning, emphasizing the need for teaching/training. Primi and delivery by LSCS were found to have higher feeding problems emphasizing the need to focus on these high risk groups.

Keywords: Breast Feeding; Problems; Postnatal Days.

# **1. Introduction**

Human milk is the most appropriate milk for the baby. Breast milk though considered to be natural, breast feeding does not come naturally to all the mothers. Successful breast feeding requires proper education and needs to be learnt.

Breast feeding has many benefits to the baby, mother as well as the nation. Exclusive breast feeding is recommended for the initial 6 months, by AAP and the WHO [1]. However exclusive breastfeeding, knowledge and feeding practices are found to be suboptimal among rural north Indian women [2]. NFHS – 4 data shows that only 56% of mothers exclusively breast feed up to 6 months in India [3]. The reason for this may vary from lack of knowledge to problems in breast or nipple.

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The success in breast feeding is dependent on early initiation and effective management of breast feeding problems during initial postnatal days. There may be regional variations too. Hence this study was taken up to identify the factors to be addressed in postnatal mothers about breast feeding in early postnatal days. The objective of the study was to identify the breast feeding problems and their etiologies during early postnatal days until discharge from hospital and also to evaluate the need for educating mothers.

### 2. Material and methods

This is a descriptive study. One hundred and twenty mothers in early postnatal days who were in the wards of a medical college hospital were randomly enrolled in the study. Data was collected by direct interview with the mother by the investigators and were entered in the proforma. A pretested proforma validated for content was used. The questionnaire contained general information of the mothers and mode of delivery. It also included self-reported problems about breast-feeding. Many of these mothers were observed during feeding to confirm the problems whenever needed. These documented problems were also entered into the proforma. Mothers of late preterm (34-37 weeks) and term (>37 weeks) babies delivered in the hospital were included in the study. Sick mothers, Sick neonates admitted in NICU for >24 hours and where breast-feeding was contraindicated were the exclusion criteria.

The first interview was carried out within 12 hours of delivery after taking informed consent. Follow up interviews were done on 24 hourly basis until discharge (At least 3 visits). Institutional Ethics Committee (IEC) | Public Health Foundation of India approved the study. Statistical analysis: Data are presented in frequency and percentages. Descriptive statistics-tables, figures, proportion. Inferential statistics- $X^2$  test for bivariate analysis. Odds ratio with 95% CI to provide degree of association are used.

#### **3. Results**

A total of 120 mothers were interviewed. They were aged between 22 to 40 years with more than half in 26-30 years range. Majority were homemakers and educated up to high school (Table 1).

Sl no.	Variables	Categories	Number	Percentage	Mean <u>+</u> SD
		20-25 yrs	41	34.1%	
1		26-30 yrs	64	53.3%	
	Age	31-35 yrs	12	10%	26.9 <u>+</u> 3.61
		>35 yrs	3	2.5%	
		Homemaker	96	80%	
2	Occupation	Daily wage/manual labourer	10	8.3%	
		Skilled	4	3.3%	
		Clerical	5	4.1%	
		Professional	5	4.1%	
3		Primary	40	33.3%	
	Education	High school	45	37.5%	
		Preuniversity	23	19.1%	
		Degree	12	10%	

Table 1. Demographic characteristics

31(25.8%) were primi mothers. 64(53%) had vaginal and 56(47%) underwent caesarean deliveries. 48% of the babies were girls and the remaining were boys. All the mothers had received antenatal care. Majority (92.5%) had some kind of prior information about breast feeding largely obtained from family/friends. 61.6% of the mothers knew about colostrum and its benefits. However, 98.3% of the mothers felt that there is a need for education about breast-feeding. Most of the mothers had initiated breast feeds within an hour or at least within 4 hours (LSCS mothers).

Most of the mothers had one or the other perceived breast feeding problems. The problems reported (Table 2) by mothers varied from insufficiency of milk to difficulty in holding the baby. Breast related problems like pain, retraction of nipple, engorgement of breast were reported in 38.3%. Problems related to mother like pain of episiotomy, caesarean also contributed to breast feeding issues.

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Sl no.	Variables	Response	Number	Percentage
1	I	Yes	35	29.1%
1	Insufficiency of milk	No	85	70.9%
2	Dashlama mith latahina	Yes	11	9.1%
2	Problems with latching	No	109	90.9%
2	Ducklasse with evolving	Yes	10	8.4%
3	Problems with sucking	No	110	91.6%
4	Durant muchlance	Yes	16	13.4%
	Breast problems	No	104	86.6%
5	Problems related to mother	Yes	46	38.3%
	Problems related to mother	No	74	61.7%
6	Diffi miles in helding the help	Yes	34	28.3%
	Difficulty in holding the baby	No	86	71.7%
7	Duchlama valatad to hal	Yes	9	7.5%
	Problems related to baby	No	111	92.5%
0	Civing other facto	Yes	3	2.5%
8	Giving other feeds	No	117	97.5%

Table 2. Breastfeeding problems – reported

Many of these mothers were observed during feeding to confirm the problems whenever needed. Poor positioning and attachment were the predominant observed problems in breast-feeding (Table 3).

Sl no.	Problems with feeding (observed)	Number of mothers	Percentage
1	Nil	79	65.8%
2	<b>Door positioning</b>	26	2004

Table 3. Breastfeeding problems – observed (more than one response allowed)

2	Poor positioning	30	30%
3	Poor attachment	18	15%
4	Poor sucking	8	6.7%
5	Breast engorgement	3	2.5%
6.	Inverted nipple	2	1.6%
7.	Sore nipple	1	0.8%

However, most of the problems were resolved before discharge a few persisted until discharge (Table 4). Poor positioning and attachment were still the prominent problems. The mothers and caregivers were further counselled regarding these issues.

 Table 4. Breastfeeding problems – at discharge (more than one response allowed)

Sl no.	Problems with feeding (observed)	Number of mothers	Percentage
1	Nil	100	83.3%
2	Poor positioning	11	9.1%
3	Poor attachment	7	5.8%
5	Breastmilk inadequacy	5	4.1%
6	Problems with latching	2	1.6%
7	Breast engorgement	1	0.8%
8.	Sore nipple	1	0.8%

These breast-feeding problems were correlated with some important variables (Table 5). Perceived milk insufficiency, latching problems and breast problems were higher in primi and found to be statistically significant. Objective problems like poor positioning, sucking etc. were higher among primi and caesarean mothers. Even problems that remained at discharge were also more among them.

Primi       17       14       31 $0.022$ 2.66 (1.12,6.13)         Multi       68       21       89       (1.12,6.13)         Latching problems         Parity       No       Yes       Total         Primi       26       5       31 $0.02$ $5.51$ (1.23, 24.63         Multi       86       3       89       (1.23, 24.63         Multi       86       3       89       (1.23, 24.63         Parity       No       Yes       Total         Primi       23       8       31 $0.004$ $5.84$ (1.74, 19.57         Multi       84       5       89       (1.74, 19.57)         Objective problems         Parity       No       Yes       Total         Primi       16       15       31 $0.052$ $2.27$ Multi       63       26       89       (0.98, 5.25)         cof delivery       aesarean       27       29       56       <0.001	Va	riables			Significance	OR (95% C.I.)	
Primi       17       14       31 $0.022$ 2.66 (1.12,6.13)         Multi       68       21       89       (1.12,6.13)         Latching problems         Parity       No       Yes       Total         Primi       26       5       31 $0.02$ $5.51$ (1.23, 24.63         Multi       86       3       89       (1.23, 24.63         Multi       86       3       89       (1.23, 24.63         Parity       No       Yes       Total         Primi       23       8       31 $0.004$ $5.84$ (1.74, 19.57         Multi       84       5       89       (1.74, 19.57)         Objective problems         Parity       No       Yes       Total         Primi       16       15       31 $0.052$ $2.27$ Multi       63       26       89       (0.98, 5.25)         of delivery         aesarean       27       29       56       <0.001				Milk i	nsufficiency		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Age group						
1-35 yr.     0     12     12       >35 yr.     1     2     3       Problems at discharge       Parity     No     Yes     Total       Primi     21     10     31     0.006     (1.20.10.20	<25 yr.	20	21	41			
>35 yr. 1 2 3 Problems at discharge           Parity         No         Yes         Total           Primi         21         10         31         0.006         (1 ao 10 20)	26-30 yr.	19	45	64	0.012		
Problems at discharge           Parity         No         Yes         Total           Primi         21         10         31         0.006         (1.20.10.02)	31-35 yr.	0	12	12			
Parity         No         Yes         Total           Primi         21         10         31         0.006         (1.20, 10.22)	>35 yr.	1	2	3			
Primi 21 10 31 0.006 (1 20. 10 22				Problem	s at discharge		
0.006	Parity	No	Yes	Total			
	Primi	21	10	31	0.000	3.76	
Multi 79 10 89 (1.38, 10.22	Multi	79	10	89	0.000	(1.38, 10.22)	
of delivery	lode of delivery						
	Caesarean	42	14	56	0.021	3.22	
Vaginal 58 6 64 0.021 (1.14, 9.07)	Vaginal	58	6	64	0.021	(1.14, 9.07)	

Table 5. Correlation of breast feeding issues with selected variables	Т	able 5.	Correlation	of breast	feeding	issues	with	selected	variables
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# 4. Discussion

This study shows breast feeding issues in early postnatal days i.e. until discharge from hospital. Most of our study group mothers were educated and had some information about breast-feeding, yet they were of the opinion that breast feeding education is needed. We can increase breast-feeding education at primary health care center level during antenatal visits with pamphlets and posters. Surprisingly a study done by Bernard Asare et al. [4] in Ghana found that young mothers and those with no education were more likely to practice exclusive breast feeding as compared to those with higher education. This was explained by the fact that in Ghana mothers with higher education tend to engage in formal employment, hindering exclusive breast-feeding. Another study observed that women who have information were 2 times more likely to exclusively breast feed than those who have no information [5].

We divided the feeding problems as reported and observed. An All India Institute of Medical sciences study had more reported as well as observed problems. This may be attributed to the difference in sample size and other demographic variations [6].

Difficulty in holding the baby and insufficiency of milk were the predominantly reported problems. A study by Yogendra Prasad et al. [7] showed that there is a lack of knowledge regarding breast-feeding and problems ranged from how to hold the baby (16.5%), mother believing that milk was insufficient (13%) and refusal of baby to suckle (8.7%). A study done in Iraq showed similar results with proper positioning and latching only in 27.5% and refusal of

baby to breast feed in 21.9% and mother believing that she has inadequate milk in 19.5% [8].

A study done in Mysore city in India by Singh et al. [9] showed a gap between actual and desired practices, emphasizing the need for intervention programs during antenatal and postnatal checkups. A study conducted in Nigeria showed that nearly 58% primi mothers had lack of knowledge regarding exclusive breast-feeding and only around 62% intended to exclusively breast-feed their babies [10].

Insufficiency of milk was reported in 29% of our subjects. Although most women are capable of producing enough milk as per the baby's requirement, many mothers perceive that their milk supply is inadequate. Counseling again has a major role here, or else this will lead to early initiation of formula feeds or weaning. Even in a Chinese study, 37.1% perceived insufficient milk. The misinterpretation of insufficient milk and caregiver's attitude towards breast-feeding are important factors for breast feeding efficacy [11].

A study in New Delhi showed very high number of breast feeding problems (88.5%). They noticed sore/ cracked nipple in 17.8%, retracted/ flat nipple in 15% and breast engorgement in 13%. Major problem was with positioning. In our study, these problems were observed in very few mothers. This may be related to the education level of the mothers as well as early discharge in our cases. Nipple pain, perceived low milk supply are known to negatively affect breast-feeding. Even an Australian study reinforced that these were important issues experienced by a significant number of women in the community [12, 13].

We found to have higher feeding problems in primi mothers and those delivered by caesarean, which may be due to apprehension (first time) and post-surgery pain and fear, emphasizing the need to focus on these high risk groups in teaching breast feeding practices as part of postnatal care. Feenstra et al. [14] noted early breast feeding problems in up to 40% of the mothers. Most important ones were inability to latch on (40%) and sore cracked nipples (38%). Primiparity and lower knowledge of breast-feeding were associated with problems. There is an interesting article published recently in breast feeding journal about the experiences of 22 mothers regarding breast feeding [15].

Some of these problems persisted even at the time of discharge who were again counselled and advised for early follow-ups. Longer follow-ups of every mother would have helped in assessing exclusive breast-feeding rate and persistence of feeding problems. A systematic review based on >30 articles showed that women experienced many problems with breast-feeding and prenatal health education counselling helped in reducing the problems [16]. WHO and UNICEF recommend the use of a sucking evaluation file to identify initial difficulties involving breast feeding techniques [17].

### 5. Conclusion

The importance of breast-feeding cannot be neglected. There is a large burden of breast feeding problems in mothers. The success in breast-feeding is dependent on early initiation and effective management of breast feeding problems during early postnatal days. There is a need for increasing health education regarding breast-feeding during antenatal period. Most common problems were positioning, emphasizing the need for teaching/training. Primi and delivery by caesarean were found to have higher feeding problems emphasizing the need to focus on these high risk groups.

# 6. Acknowledgements

We gratefully acknowledge all the participants who participated in this study.

# 7. Declaration of Competing Interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

# 8. Ethical Approval

Participants gave their written consent to use their anonymous data for statistical purposes. All of them were over 18 years old and voluntarily collaborated without receiving any financial compensation. The procedures were carried out in compliance with the institutional regulations of the Institutional Ethics Committee (IEC) | Public Health Foundation of India. Similarly, all procedures adhere to the Helsinki Declaration of 1964, revised in 2013.

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