

## Original Research Article

# Knowledge, attitude and practices regarding breastfeeding and infant milk substitutes among mothers of upper middle-class society in a baby friendly hospital initiative accredited hospital of New Delhi, India

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### ABSTRACT

**Background:** Exclusive breastfeeding is considered a major public health intervention to promote both child and maternal health. Introduction and awareness of infant milk substitutes among mothers appear as a threat to this important practice.

**Methods:** The study is an observational cross-sectional study using a questionnaire containing socio-demographic variables. The study was conducted among 300 mothers who reported to immunization clinic and paediatrics OPD of a BFHI accredited hospital in Delhi. Data collected in the study has been analysed using SPSS version 21.0 and MS-Excel. Student 't' test for quantitative variables and 'chi square test' for categorical variable have been used for statistical significance. p-value <0.05 was considered to be significant.

**Results:** In this study 78.7% mothers intended to breastfeed. 71.3% knew that breastfeeding should be continued up to 2 years and 96.3% knew exclusive breastfeed should be given till 6months. Major source of knowledge were doctors and elders of society. However, 49.6% mothers started breastmilk substitutes before 6 months of age. Major causes that appeared as barriers against exclusive breastfeeding were insufficient quantity of milk (23.4%), child refusal (61%) and maternal health problems (15.6%).

**Conclusions:** Despite good knowledge about breastfeeding among upper middle-class mothers, practice of exclusive breastfeeding remains suboptimal. There is a need for more reinforcement upon importance of breastfeeding, its benefits for both mother and baby so as to foster the practice.

**Keywords:** Baby friendly hospital initiative, Breast feeding, Infant milk substitutes, Knowledge, Practice

### INTRODUCTION

Breast feeding forms an important practice of mankind. WHO recommends exclusive breastfeeding till 6 months and should be continued till 2 years of age.<sup>1,2</sup> The benefits of breastfeeding are innumerable and it is vital for overall growth and development of a child.<sup>3,4</sup> The benefits of breastfeeding are not only limited to the baby, but also in many ways positively affect mothers.<sup>5</sup>

Despite establishment of all these facts, exclusive breastfeeding has remained low in prevalence.<sup>6</sup> Despite

strong implementation of IMS Act use of bottle feeding and Infant Milk Substitutes (IMS) has been quite high.<sup>7</sup> It has been seen that introduction to formula feeds in initial days of breastfeeding leads to lower rates of exclusive breastfeeding compared to the ones who have not been introduced.<sup>8</sup>

Literature has ample articles on this issue, but still much is needed to have a better understanding of factors causing cessation of breastfeeding. Also, no such study has been done in India among mothers reporting at a Baby Friendly Hospital Initiative (BFHI) accredited

hospital.<sup>9</sup> A similar study has been done in Bangalore on urban population, assessing Knowledge, Attitude and Practice (KAP) but it doesn't clearly specify the prevalence of breastfeeding and formula feeds' exposure among different socioeconomic classes of urban population.<sup>10</sup>

This study aims to give a better insight of not only breastfeeding practices but also of attitude and practices regarding formula feeding among 'upper middle class' population. It aims to understand the impact of education and occupation of mothers on feeding practices, attitude and knowledge in a better way. It also aims to evaluate 'BFHI practices' and its effect on breastfeeding after discharge from hospital.

Aim and objectives of the study were assessment of knowledge, attitude and practices of breastfeeding and infant milk substitutes among mothers of 'upper middle-class society' in New Delhi with respect to various socio-demographic and cultural variables and to assess the impact of Baby Friendly Hospital Initiative on feeding practices after discharge from hospital.

## METHODS

The study was conducted in a time frame of two months from 30 June 2017 to 30 August 2017 in a BFHI accredited hospital. 300 mothers reporting at Immunization Clinic and Pediatrics Outpatient Department with their babies of age 6 weeks to 24 months were included in the study.

The Study setting and design of this study was conducted among mothers who delivered at Base Hospital, Delhi Cantt which is a BFHI accredited hospital. All mothers included in the study belong to upper middle class as per modified Kuppuswamy socio-economic scale.<sup>11</sup> They were interviewed on reporting with their babies at Immunization Clinic or Pediatrics Outpatient Department. The study is an observational study of cross-sectional design using a questionnaire containing socio-demographic variables and 4 sections.

The Study Population was conducted on mothers reporting at Immunization Clinic and Pediatrics Outpatient Department with their babies of age 6 weeks to 24 months.

The Sample size was calculated by convenience random sampling, i.e., 300 mothers. The study subjects were included in the study by systematic random sampling. Every 5<sup>th</sup> mother visiting the study site after applying the inclusion criterion was selected for the study.

### Inclusion criteria

- Mothers with babies in the age group of 6 weeks to 24 months and born in Base Hospital, Delhi Cantt.
- Mothers who consent to take part in the study.

- Mothers belonging to upper middle-class society.

### Exclusion criteria

- Mothers with long-standing diseases restricting breast feeding.
- Mothers who are/were on long term medications (Anti-cancer drugs, thyroxine, sedatives) for six months postpartum.
- Infants with congenital anomalies restricting breastfeeding.
- Mothers who have taken part in such a study earlier.
- Mothers not carrying their babies along them.

Data Collection Procedure of mothers falling in the selection criteria were included in the study after an informed written consent. The KAP was assessed on the basis of a questionnaire which contains 4 sections other than socio-demographic variables.

Section-A Knowledge Questionnaire

Section-B Iowa Infant Feeding Attitude Scale

Section-C Postpartum bonding questionnaire

Section-D Practices Questionnaire

The 'knowledge' and 'postpartum bonding' questionnaire has been used in a study conducted by Vijayalakshmi P et al, in Bangalore.<sup>10,12</sup> It has been included in the study after addition of some questions related to IMS feeding. Informed consent has been taken by the authors of the study for modifying the existing questionnaire.

Attitude has been assessed by an internationally standardized scale, Iowa Infant Feeding Attitude Scale (IIFAS). Only a few studies in India have been done using this standard attitude scale. It is a reliable scale for evaluation in cross-cultural settings and has been validated in Indian settings. (Cronbach's alpha scores ranging from .85-.86).

The 'Practice' Questionnaire is a self-prepared questionnaire. It assesses the current feeding practices of breast milk and infant milk substitutes. The questionnaires were pretested on 40 postnatal mothers in Pediatrics OPD setting during the month of December 2016, to check the credibility of questions added in the knowledge and practice questionnaire.

### Statistical analysis

Data collected in the study has been analysed using SPSS version 21.0 and MS-Excel. Univariate analysis has been done to check the quality of data entry. For the quantitative variables, (mean±S.D) or median are used for data presentation. For categorical variables, frequencies along with their respective percentages are used. For representation of data graphically, pie charts and bar diagrams are used. Student 't' test for quantitative variables and 'chi square test' for categorical variable

have been used for statistical significance.  $p$ -value  $<0.05$  is considered for decision making.

Quality controls of mothers were interviewed relating to knowledge, attitude and practices of breastfeeding and formula feedings as per the questionnaire, under supervision of the guide. A small sample of mothers was interviewed by the guide independently, to note the trends.

It was assured that all their doubts pertaining to feeding practices are cleared either by researcher or with the help of guide.

### Ethical considerations

All participants have been included in the study only after taking consent. No mother has participated in the study unwillingly. There was no harm to the morals and self-dignity of the patient. Ethical clearance form from IEC has been attached.

## RESULTS

The study included 300 mothers belonging to an age group of  $27.00 \pm 4.038$  years (Mean  $\pm$  S.D.). The demographic and sociocultural details of the sample population are shown in table 1. Other significant findings were

- Breastfeeding intention of mothers: 78.7% mothers said that they intended to breastfeed. The causes of breastfeeding unwillingness among these 21.3% mothers was health problems (15.6%), insufficient quantity of milk (23.45%) and refusal by infant in 61.00%.
- Incidence of illnesses in infants in first 6 months of life: Only 19.3% infants were disease free. As much as 80.7% children suffered from illnesses during first 6 months of life. Various diseases encountered were respiratory tract infections (32%), diarrhea (23.8%), jaundice (11.2%), miscellaneous like urinary tract and skin infections etc. (13.7%). Table 2 shows in details the knowledge of mothers towards breastfeeding and formula feeding.
- Source of knowledge about breastfeeding: 78.57% mothers claimed doctors as their source of knowledge. Besides doctors, 28.58% also credited elders, 14.28% credited relatives and friends, and 7.14% credited mass media too. 14.28% of mothers said they have gained knowledge about breastfeeding from elders only and 7.15% claimed that they gained knowledge only through relatives and friends.

Figure 1 shows the attitude of mothers towards breastfeeding and formula feeding as per Iowa Infant Feeding Attitude Scale (IIFAS). While 16% believed formula feeding is more convenient, 59.3% mothers were of opinion that breastfeeding is more convenient and 24.7% were indecisive. Only 12% agreed that breast milk

lacks in iron. More than half of the mothers believed formula feeding is a better choice if mothers plan to go back to work. Nearly three fourth of mothers agreed that they can breastfeed in public places. Many women (85.7%) didn't consider formula milk as healthy as breast milk.

**Table 1: Demographic and socio-cultural details of participants.**

Total number of participants (n)		300	
Age of Mother (years)		27.00 $\pm$ 4.038	
Socio-demographic data		N	%
Age of child	6 weeks- 6 months	86	28.7%
	6 months- 12 months	193	64.3%
	>12 months-24 months	21	7.0%
Gender of child	Female	146	48.7%
	Male	154	51.3%
Birth order	1	196	65.3%
	2	85	28.3%
	>2	19	6.3%
Type of delivery	Vaginal delivery	235	78.3%
	Caesarean section	65	21.7%
Education of mother	High school	41	13.7%
	Graduation	232	77.3%
	Post-graduation	27	9.0%
Occupation of mother	Housewife	266	88.7%
	Working	34	11.3%
Religion	Hindu	246	82%
	Sikh	37	12.3%
	Christian	11	3.7%
	Muslim	6	2.0%

Table 3 shows postpartum bonding between mothers and babies as assessed using a postpartum questionnaire. 79.7% mothers agreed that they 'always' feel confident while taking care of baby. 54% mothers 'never' feel angry with their babies, 16.7% said rarely.

Only 10.3% said they feel angry with their babies 'often' or 'very often'. Only 3.7% mothers said that their baby irritates them.

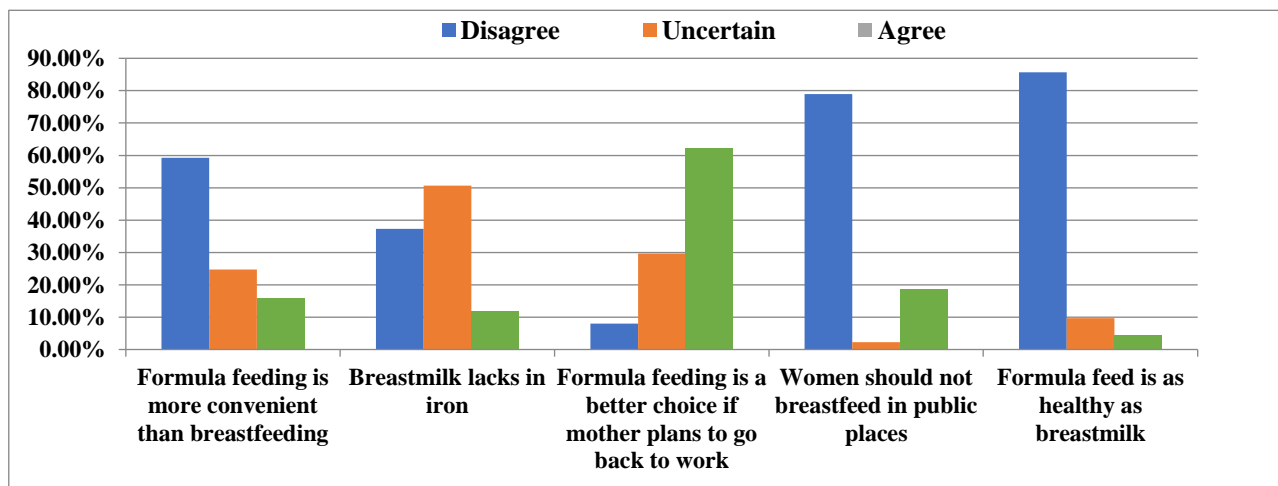
Feeding practices of 28.7% plan to or have breastfed till 2 years. Only 5.3% had breastfed for less than 6 months. Only 6.7% babies were given anything other than breastmilk or formula feed as the first feed which included janam ghutti, honey and variants. Breastfeeding was initiated within half an hour of delivery by 37.3% mothers, while 30.3% mothers breastfed after 1 hour of delivery. Most of the mothers (85.3%) fed colostrum and didn't discard it. Almost half of the mothers gave breastmilk substitutes. Figure 2 describes the percentage of mothers giving breastmilk substitutes and the time when they were started. Only 3.6% mothers resorted to formula feeding due to their jobs, 33% due to low milk production or high demand by baby. However, 21.7% said they had to start formula feeds due to refusal by the child.

**Table 2: Knowledge of mothers towards breastfeeding and formula feeding.**

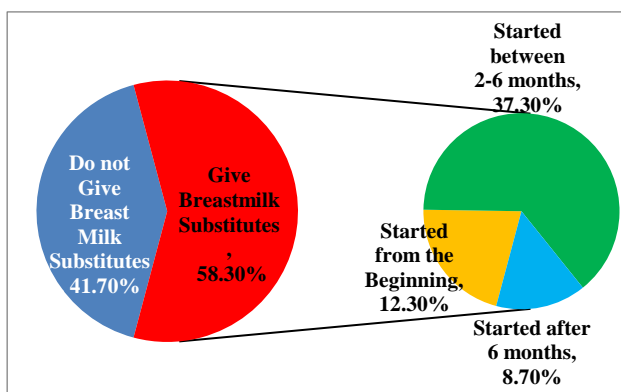
Variables	% of mothers who agreed
Colostrum is important for maintain immunity	93.7%
Breastfeeding should be continued up to 2 years	71.3%
Exclusive breastmilk should be given till 6 months of life	96.3%
Mother should maintain eye to eye contact and talk to baby while breastfeeding	52%
Wash each breast with warm water before breastfeeding	53.7%
Breastfeeding helps in mother and child bonding	93%
Breastfeeding can prevent diseases affecting breast	50.7%
Mothers should 'not' feed the child when baby suffers from diarrhea	53.7%
Breastmilk is easily digested as compared to formula milk and animal milk	98.3%
Formula feeding and bottle feeding predispose baby to infections	72.3%

**Table 3: Postpartum bonding.**

Attributes	Always	Very often	Quite often	Sometimes	Rarely	Never
Baby irritates me	0.0%	0.0%	3.7%	26%	28.3%	42%
Baby cries too much	7.4%	0.0%	15.3%	7%	38%	32.3%
I feel trapped as a mother	0.0%	7.3%	6.3%	13.7%	20.7%	52%
I feel angry with my baby	0.0%	6%	4.3%	19%	16.7%	54%
I feel confident when caring for baby	79.7%	7.3%	6.3%	6.7%	0.0%	0.0%



**Figure 1: Attitude towards breast feeding and formula feeding.**



**Figure 2: Time of initiation of breastmilk substitutes.**

**DISCUSSION**

This cross-sectional study has been done among 300 mothers with babies born in a BFHI accredited hospital and currently in the age group of 6 weeks to 24 months. The study has included participants belonging to upper middle-class society. This inclusion criterion has made the comprehension of trends among the more privileged and educated part of the society in a better way. Many studies have been done on KAP of breastfeeding but there is no clear specification of effect of socioeconomic status on the results.

With modernization in the country, there is an increased level of education and varied nature of occupation can

also be seen among women. Hence, it is inevitable that it will affect knowledge, attitude and practices of breastfeeding. Studies have shown higher rates of exclusive breastfeeding among poorer sections of the society.<sup>13</sup> Keeping this in mind and to make the objective of the study more achievable, the study has been done on the richer part of the population. Since, upper class of the society is difficult to seek for in a government hospital, the study has included upper middle class as the representative of richer part of population.

The mean age of mothers is found to be higher (27.00±4.038 years) than in other studies. Out of 300, 281(93.6%) babies were of birth order 2 or less. While in the study done in Bangalore from where a part of the questionnaire has been referred to, the mean age of participants is 23.07±3.50.<sup>10,14</sup> This portrays the fact that women in the educated and privileged part of population chose to become mothers at a later age. This factor can be considered as an important influence in the practices and attitude of the mothers. A study has shown higher rates of awareness of breastfeeding practices among older groups.<sup>15</sup> 72.7% women either rarely or never felt being trapped as a mother, which is a good indication of postpartum bonding between mother and baby.

80.3% mothers have the highest degree as graduation or more. This is in contrast to the similar studies conducted by Vijayalakshmi et al, and Chinnasam B et al, where nearly half of the population were illiterate or only primarily educated.<sup>10,14</sup> Despite this large difference between educational status of mothers, there appears not much difference between the knowledge quotients. 93.7% women knew the importance of colostrum in maintaining the immunity of baby. While a relatively lesser percentage, 71.3% agreed that breastfeeding should be continued till 2 years of age, a larger number of 289 mothers (96.3%) knew that exclusive breastmilk should be given during first 6 months of age. While this finding is consistent with that of the study done in Bangalore.<sup>10</sup> Some studies in contrast show good knowledge among mothers about breastfeeding till 2 years too.<sup>16,17</sup>

Although 96.3% mothers knew that exclusive breastmilk should be given during first 6 months of age, 49.6% started breastmilk substitutes before 6 months of age. The rest were practicing/ have practiced Exclusive Breastfeeding (EBF). The prevalence of EBF is almost equal to that in Iran.<sup>18</sup> Although 62.3% mothers were in unison with the statement that formula feeds are a better choice if mothers plan to go back to work, only 32.3% of working mothers (11 out of 34) reasoned their occupation as the cause of introduction of formula feeds or not breastfeeding exclusively. The finding is in unison with studies done in India.<sup>1,14,18</sup> But the studies done in Malaysia and Saudi Arabia, suggest mother's occupation as the main cause.<sup>19,20</sup>

Lack of confidence and unhealthy relationship between mother and baby can hinder milk ejection. But correct

attitude and positive emotions helps the milk ejection reflex. So, author included variables related to attitude and postpartum bonding also in the study. Attitude has been assessed by an internationally standardized scale, Iowa Infant Feeding Attitude Scale (IIFAS). Only a few studies in India have been done using this standard attitude scale. It is a reliable scale for evaluation in cross-cultural settings and has been validated in Indian settings.

'Postpartum bonding' questionnaire has been used in a study conducted by Vijayalakshmi P et al, in Bangalore.<sup>10</sup> It has been included in the study after addition of some questions related to IMS feeding. Informed consent has been taken by the authors of the study for modifying the existing questionnaire. On evaluation of results it was seen, though many women agreed that they can breastfeed in public places and that formula feed is not as healthy as breastmilk, only a few were aware that breastmilk lack in iron. Also, more than half of the mothers said that breastfeeding is way more convenient than formula feeding.

On the contrary, almost two thirds of mothers opined that formula feeding is a better choice if mother plan to go back to work. Very few (12%) knew that breastmilk lacks in iron. Figure 1 depicts the attitude among mothers regarding breastfeeding and infant milk substitutes. Although 96.3% mothers knew that exclusive breastmilk should be given during first 6 months of age, 49.6% started breastmilk substitutes before 6months of age. This gap between knowledge and practice needs to be addressed.

BFHI practices by WHO constitute having a written breastfeeding policy that is routinely communicated to all health care staff and effective communication of breastfeeding practices to mothers. 78.57% mothers prefer doctors as their counsellors and consider doctors as their source of knowledge. The findings of the study bring out good indicators of BFHI practices and impact on mothers. On the other hand, it also emphasizes the need for strengthening and assessment of BFHI practices in the hospital as many mothers were still unaware of the finer details of breastfeeding. Facts like washing of breast, proper ways of breastfeeding, continuing breastfeeding even if baby is suffering from diarrhoea, its importance for mothers were all not well known among participants. Despite a higher level of education in majority of mothers, such facts were less known and understood by them. The study throws light on the areas of lack of knowledge. If this gap is filled, there would be better incidence of breastfeeding.

In studies done in India and outside, participants were chosen by simple random method.<sup>10,21-23</sup> On the other hand, in the present study, systematic random sampling has been used. Every 5<sup>th</sup> mother visiting the study site after applying the inclusion criteria has been selected for the study. This adds on to the quality of sample collection. The study has included standard

questionnaires and the ones which have been used in a similar study. Also, they were pretested before initiation of the study to assure upon the credibility of the questions added. The literature is full of articles related to breastfeeding knowledge, attitude and practices, but not many focus on infant milk substitutes.

Although the present study has been able to achieve its objectives, it has limitations being of cross-sectional design. To assess BFHI practices in a better way, a prospective cohort design would be more apt. Such studies may be done in future by interviewing mothers at delivery and then after 6 months. Also, deeper cultural and anthropological studies need to be done to evaluate correlation between major factors (which cause cessation of breastfeeding) and exclusive breastfeeding.

Also, doing a similar study among different socioeconomic classes can be of interest, as it would lead to better and more reliable comparison. It will help in understanding good and bad practices and deficient areas of knowledge of each class. The present study has included upper middle-class society as the representative of richer part of population because 'upper class' is difficult to seek for in government institutions. Future studies can include mothers visiting private hospitals.

Despite these limitations, present study has been able to assess KAP related to breastfeeding and IMS. It has been able to comprehend deficient areas of knowledge among mothers of upper middle class of society. Practices like IMS feeding, early introduction of IMS, and the reasons behind them among the richer part of population are understood in a better way. Mothers who had initiated IMS early to their babies were counselled and importance of breastfeeding was reinforced.

## CONCLUSION

There is optimal knowledge among mothers of educated part of society but there exists a gap between knowledge and practice which needs to be addressed. Doctors and hospital staff need to do more reinforcement of breastfeeding among mothers after delivery so as to improve exclusive breastfeeding prevalence among this part of society.

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