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Original Article

Assessment of Breastfeeding Practices in Lactating mothers in Tertiary **Health Center**

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ABSTRACT

Background: The mother's milk is the best gift nature has provided. It is complete nourishment for babies. The World Health Organization (WHO) recommends that infants be exclusively breastfed for the first six months, followed by breastfeeding along with complementary foods for up to two years of age or beyond. Absence of remarkable progress in indicators of breastfeeding suggest that certain gaps still exist which restrict achievement of national development goals. These gaps could have resulted from unawareness and lack of knowledge regarding appropriate IYCF practices. Appropriate intervention in terms of awareness programmes may help in achieving the national development goals.

Methods: A cross-sectional hospital based study involving 100 mothers was conducted in the Department of Paediatrics, Sri Siddhartha medical college, Tumkur for a period of 3 months. Lactating mothers in postnatal ward were questioned using self-administered breastfeeding knowledge questionnaire about their knowledge, attitude and practices of breastfeeding.

Results: Total of 100 lactating mothers were enrolled. Majority of the mothers were in the age group of 20-25 years(72%), 65% of mothers were from rural area. only 27% mothers practiced initiation of breastfeeding after birth. 62% of mothersinitiated breastfeeding after 30 minutes of birth. 10% mothers gave prelacteal feeds, honey was the most commonly given prelacteal feed. 90% of the mothers fed their baby colostrum. 90% of mothers knew that breast milk is ideal feed for newborn.

Conclusions: The primary care givers need to implement strategies to educate mothers about breastfeeding in antenatal and postnatal checkups to enhance good breastfeeding practice thereby reducing infant mortality and morbidity. A special strategy to reach out to poor socio-economic status and illiterate mothers is need of the hour

Keywords: Breastfeeding Practices, Lactating mothers, milk, foods, liquids, tea.

INTRODUCTION

The best gift nature has provided is the mother's milk. It is complete nourishment for babies. Breastfeeding is recognized worldwide as beneficial for both the mother and child, as breast milk is considered the best source of nutrition for an infant. The World Health Organization (WHO) recommends that infants be exclusively breastfed for the first six months, followed by breastfeeding along with complementary foods for up to two years of age or beyond.

Exclusive breastfeeding is defined as a practice where by the infants receive only breast milk and not even water, other liquids, tea, herbal preparations, or food during the first six months of life, with the exception of vitamins, mineral supplements, or medicines. Breastfeeding protects babies against various diseases like diarrhea, pneumonia, and allergies and boosts their immunological response. Study from Ghana found that 22% of deaths among newborns were prevented if allnewborns started breastfeeding within 1 hour of birth, irrespective of whether they were exclusively breastfed later or not; further analysis by the researchers now suggested this figure could be 31% for developing countries.

According to NFHS-5 data, initiation of breastfeeding within one hour of birth in India is only41.8 per cent even after a tremendous increase in institutional births from 38.7 per cent (2005-06) to 78.9per cent (2015-16). Exclusive breastfeeding rates amongst infants 0-6 months of age, from 54.9 per cent(2015-16) to 63.7 per cent (2019-21). Initiation of breastfeeding within 1 hour rates across India varied from 25.4% to 75.4%, exclusive breastfeeding (0-6 months) rates varies from 35.8% to 77.2%. Absence of remarkable progress in these indicators suggest that certain gaps still exist which restrict achievement of national development goals. These gaps could have resulted from unawareness and lack of knowledge regarding appropriate IYCF practices. Appropriate intervention in terms of awareness programmes may helpin achieving the national development goals. Hence we planned this study with the objective to assess the knowledge, attitude and practice of breastfeeding among lactating mothers in a tertiary referral centre in central Karnataka.

METHODS

It was a crosssectional descriptive study conducted in the Department of Paediatrics, Sri Siddhartha medical college, Tumkur for aperiod of 3 months, July 2025 - September 2025. Studypopulation included 100 lactating mothers in post natalward.

Inclusion criteria

Healthy breastfeeding mothers in the post natal ward.

Exclusion criteria

Mothers with medical/surgical illness, mothers whosebabies are admitted in NICU.

Data collection

By using self-administered breastfeeding knowledgequestionnaire.

Study procedure

The questionnaire was self-administered in local language. Mothers meeting inclusion criteria were given questionnaire to answer. Illiterate mothers were asked and responses were recorded. Demographic details likeage, parity, educational status, working status, income, type of delivery, weight of baby and sex of baby were recorded. Mother's knowledge and practices of breastfeeding were assessed. Assessment of onset and adequacyof breast feeding was assessed. General characteristics of the patients were presented in terms of percentage. Numerical variables of breastfeeding practices, breastfeeding knowledge were tabulated and assessed.

RESULTS

100 lactating mothers in post natal ward were interviewed. Table 1 shows the characteristics of participants in the study. Majority of the mothers were in the age group of 20-25years (72%), 65% of mothers were from rural area, 56% of mothers belonged to nuclear family, more than half ofthe mothers were school dropouts, majority of the mothers were home makers. Nearly 90% of the mothers belonged to lower and lower middleclass family. Multipara mothers contributed to 57% of the study sample. Only 8% of the babies were delivered by LSCS. Maleand female babies were equal in number. 30% babies were low birth weight. On assessment of breastfeeding practices, only 27% mothers practiced initiation of breastfeeding after birth.62% of mothers-initiated breastfeeding after 30 minutes of birth. Only 1/3rd of mothers fed baby on demand, 10%mothers gave prelacteal feeds, honey was the most commonly given prelacteal feed. 90% of the mothers fed their baby colostrum, more than half of mothers didn'tpractice burping after feeding, lying was the most commonly fed position followed by sitting position.

Majority of the mothers cleaned their breast with waterbefore feeding. Most of the mothers wiped baby's mouth after breastfeeding. 86% of the mothers gave top feed in addition to breast milk. Almost all babies were fed till 5-10 minutes, only 27% of mothers followed restricted dietduring breastfeeding. On assessment of knowledge about breast milk and breastfeeding, 90% of mothers knew that breast milk isideal feed for newborn, 56% of mothers knew immediate initiation of breastfeeding in newborn, less than half ofmothers knew about importance of colostrum, 88% of mothers knew that colostrum should be fed to newborn, half of the mothers were aware of demand feeding, 56% of mothers thought baby should be fed for 5-10 minutes, only half of the mothers were aware of exclusive breastfeeding, 48% of mothers thought breastfeeding should be stopped by 12-23 months.

Table 1: Demographic variables of the participants.

Characteristi	cs	Number
Age	<20 years	8
	20-25 years	72
	25-30 years	18
	>30 years	2
Place of residence	Urban	35
	Rural	65
Family	Nuclear	56
	Extended	44
Religion	Hindu	72
	Muslim	28
Education	Illiterate	29
	Primary	32
	Secondary	21
	Higher secondary	10
	Pre university	08
	Graduate	01
Occupation	House wife	94
	Self employed	05
	Blue collar	01
	>6528	0
Income	>3264-6527	6
	1959-3263	24
	979-1958	50
	<978	20
Parity	Primi	43
	Multi	57
Type of delivery	Normal vaginal delivery	90
	LSCS	08
	Assisted vaginal delivery	02
Sex of baby	Male	51
	Female	49
Birth weight	1000-1500 gm	06
	1500-2500 gm	24
	>2500 gm	70

Table 2: Breast feeding practices observation of the participants.

Observation		Number
	< 30 minutes	27
	30 minutes-2 hours	62
Initiation of breastfeeding	2-6 hours	08
	6-24 hours	00
	24-48 hours	01
	>48 hours	02
Frequency of breastfeeding	On demand	33
	Every 24 hours	36
	Every 4 hours	31
	On insistence of elders	01
	Nothing	90
Pre lacetal	Honey	09
feeds	Milk other than breast milk	01
Feeding of colostrum	Yes	90
	No	10
Burping done after feed	Yes	46
	No	54
Position of	Sitting	40
feeding	Lying	60
Cleaning of	Yes	64
breasts	No	36
	don't clean	23
How often do	Each time before feed	60
you clean	After feed	03
you clean	Both	09
	Sometimes after feed	05
	Water	69
How do you	Soap and water	09
clean breast	Milk	16
	Others	06
Do you wipe	Yes	83
baby's mouth after feeding	No	17
Is baby top fed	Yes	86
is baby top red	No	14
	0-5 minutes	44
Baby generally feeds for	5-10 minutes	48
	10-20 minutes	07
	>20 minutes	01
Any restriction in diet while breastfeeding	Yes	23
	No	77

Table 3: Breast feeding knowledge observations in participants.

Observation		Number
Ideal feed for newborn	Breast milk	90
	Formula feed	05
	Cow's milk	04
	Buffalo's milk	01
When should BF be started in newborn	Immediately after birth	56
	30 minutes	27
	2 hours	12
	Whenever breast becomes full	02
	2 -24 hours	02
	24-48 hours	01
	>48 hours	00
Importance of colostrum	Yes	46
	No	54
What should be	Feed to baby	88
done with	Throw away	06
colostrum	don't know	06
How frequently baby should be	Whenever baby cries	55
	2 nd hourly	30
fed	3 rd hourly	15
	Till baby sleeps	26
How long baby should be fed	<5 minutes	09
	5-10 minutes	56
per feeding	10-20 minutes	07
- 1999-7 D	>20 minutes	03
	2 months	08
How long baby	4 months	04
should be	6 months	48
breastfed	8 months	20
	>8 months	20
When bused	<6 months	10
When breast feeding should be stopped	6-12 months	16
	12-23 months	48
	>24 months	26

DISCUSSION

It was observed in the present study that 97% of mothers-initiated breastfeeding within first day of birth. Only 27% of mothers-initiated breastfeeding immediately within 30minutes of birth, which is significantly low compared to NFHS-4 data where 41.6% babies were breastfed within 1 hour of birth. [6] A delay in initiation will lead to a delayin the development of oxytocin reflex, which is very important for the contraction of the uterus and the breastmilk reflex. 97% mothers-initiated breastfeeding within first day of birth. Our finding is much higher than (37.1%) the national data.

[6]Studies show that the earlier breastfeeding begins the earlier and more effective the consolidation of the process, and therefore, a better impact on the after-birth period, which helps in the earlier initiation of the secretion of breast milk.10% mothers gave prelacteal feeds, honey was the most commonly given prelacteal feed. Similar findings were reported in previous studies.9-12 Pre-lacteal feeds are given believing they act as laxatives or as a means of clearing the meconium. Unfortunately, the mothers arenot aware that the pre-lacteal feeds could be a source of contamination. [13]Honey, which is used as prelacteal foodin infants is not recommended to be given below the age of one year, because of the risk of infection

by Clostridium botulinum.90% of mothers fed colostrum to baby which is a good practice. Similar findings were reported in previous studies. [13,14] But only half of the mothers were aware of its importance or role.

Colostrum is rich in vitamins, minerals, protein and immunoglobulins that protect the child from infections. [15]The most common reason stated by mothers for discarding colostrum was that theythought colostrum was not good for the child. Only one third of mothers were aware of demand feeding. Nearly half of mothers were practiced burping after feeding, burping helps to prevent regurgitation of feeds. Majority of the mothers practiced good hygienic practices, they cleaned their breasts while feeding. This prevents infection in mothers and helps them to sustain breastfeeding. Quarter of mothers had restricted diet while breastfeeding, rest all mothers increased their diet while breastfeeding. Similar findings were reported in previous studies. [16] The reason behind restriction of diet in mothers could be belief that food consumed by mother may harm the baby by developing symptoms like cold, cough and increased frequency of stools. Only half of the mothers were aware of exclusive breastfeeding till 6 months, this can be attributed to thefact that the majority of the study population were mothers belonging to low socioeconomic class with a lowlevel of literacy.

Exclusive breastfeeding for the first six months, which is highly recommended, is often a necessity in poor communities that cannot afford formula or cow's milk. Creating an awareness of its advantages will further strengthen and support this common practice in rural communities and avoid the early introduction of complementary foods for sociocultural reasons. Thus, no opportunity should be missed by doctors and healthworkers to educate the rural women on the benefits of breastfeeding. One potential limitation of this study could be the small localized population. Hence, the findings in this study cannot be generalized.

CONCLUSION

Despite the higher rates of early initiation of breastfeeding and exclusive breastfeeding, there was low awareness of the benefits of exclusive breastfeeding. Creating an awareness of the advantages of exclusive breastfeeding will further strengthen and support this common practice in rural communities and avoid early introduction of complementary foods for sociocultural reasons.

REFERENCES

- 1. Ku C, Chow SKY. Factors influencing the practice of exclusive breastfeeding among Hong KongChinese women: a questionnaire survey. J ClinNurs. 2010;19(17-18):2434-45.
- 2. Hanif HM. Trends in breastfeeding and complementary feeding practices in Pakistan, 1990-2007. Int Breastfeed J. 2011;6:15.
- 3. Nkala TE, Msuya SE. Prevalence and predictors of exclusive breastfeeding among women in Kigomaregion, Western Tanzania: a community basedcross-sectional study. Int Breastfeed J. 2011;6:17.
- 4. Benefits for Infants. Advantages of Breastfeeding.Available at: www.breastfeeding.com/all-about/all-about-more.html. Accessed on 6 August 2025.
- Srivastava D. Breastfeeding: the First Hour SavesOne Million Babies! World Breastfeeding Week2007, August 2-4. Breastfeeding PromotionNetwork of India, Delhi, 2007.www.bpni.org/WBW/2007/UNICEF-India-Health.html. Accessed on 6 August 2025.
- 6. Government of India. Ministry of Health and FamilyWelfare. National Family Health Survey-4, 2015-2016. Available from: http://rchiips.org/nfhs/nfhs-4 Reports/India.pdf. Accessed on 4 August 2025.
- 7. Breastfeeding and infants and young childrenfeeding practices. Report card: India States and UTs, 2019. Available from:https://nhm.gov.in/New_Updates_2018/NHM_Components/RMNCHA/CH/Schemes/Maa/Brestfeeding_a nd_IYCF_Report_Cards.pdf.
- 8. Iarukov A, Nin'o A, Iarukova N, Doicheva E, KolevD. The early breast feeding of newborn infants. Akush Ginekol. 1992;31:13-5.
- 9. Mandal PK, Sardar JC, Chatterjee C, Lahiri SK,Ghosh PK. A study on breast feeding practicesamong infants in a rural area of west Bengal. IndianJ Prev Soc Med. 2007;38:28-31.
- 10. Chaturvedi M, Nandan D, Gupta SC. Rapidassessment of infant feeding practices in Agradistrict. Indian J Community Med. 2007;32:227.
- 11. Sharma D, Sharma S. Bottlenecks to breastfeedingin Rural Rajasthan. Indian J Community Med.2005;30:155-6.
- 12. Pathi S, Das BC. Breast feeding practices in a ruralICDS block of Khallikote, South Orissa. Indian JCommunity Med. 2005;30:154.
- 13. Deshpande JD, Giri PA, Phalke DB, Phalke VD, Kalakoti P, Syed MM. Socio-cultural practices inrelation to breastfeeding, weaning and child rearingamong Indian mothers and assessment of nutritional status of children under five in rural India. AMJ.2010;3:618-24.
- 14. Khan Z, Mehnaz S, Khalique N, Ansari MA, Siddiqui AR. Poor perinatal care practices in urbanslums: Possible role of social mobilizationnetworks. Indian J Community Med. 2009;34:102-7.
- 15. Davies MC, Arinolan G, Sanusin R, Osotimehin B.Immunoglobulin classes and nutritional factors inplasma and breast milk of lactating mothers in Nigeria. Iran J Immunol. 2006;3:181-6.
- **16.** Agarwal M, Idris MZ, Mohan U. Quality ofreproductive health care at primary care level.Indian J Community Med. 2001;26:119-26.