ORIGINAL RESEARCH

Knowledge attitude and practice study for breast feeding in post natal mothers attending pediatric OPD at united medicity

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ABSTRACT

Introduction-Breast milk is the first natural food for the infants. Breast milk ismost vital for infant growth and development. Breastfeeding protect mothers inseveral ways from harmful diseases. It develops a strong bond between motherand infants. Exclusive Breastfeeding is an important practice for the infantsgrowth and development. The purpose of the present study was to study the current status of Breast feeding knowledge and attitude among mothers. **Methods**- It was a cross-sectional study with 190 mothers participated fromUnited Institute of Medical Science, Prayagraj. Subjects detailed demographic profile were noted down. Subjects knowledge and attitude regarding breast feeding was assess on the basis of standardized questionnaire(IIFAS). **Result**- Subjects demographic data represents that most of the mothers were housewives with primary education. Questionnaire based on knowledge andattitudes reports that mothers have good knowledge regarding the breastfeeding but has a neutral attitude towards breast feeding practice. **Conclusion**- In the present study mother's knowledge and attitude regarding was positive, but breastfeeding practice was neutral. Itwasevidentthatthereisagapbetweenknowledgeandpracticeonbreastfeeding.Thusfurthermore schooling regarding importance of breast milk and breastfeeding should behighlightedamong women.

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INTRODUCTION

Breastfeeding is an instrumental metaphor for how love works between mother and infants. For the good healthinfantsneedpropernourishments, love, attentionan d care. The ideal food for the young infant is human milk and the tradition of breast feeding babies is over a million years old. "CharakaSamhita" also mentions about the value of breast milk as a source of nutrition for the babies. [1,2]

Breastfeeding is necessary for both the young mother and the developing infants. World Health Organization(WHO), states -"Breastfeeding is the corner stone for an infant's survival, nutrition and development". [3]. Breastfeedingreduces the risk of post-partum haemorrhage, protects mothers against the risksof ovarian and breast cancer and increases the bond between a mother and thechild. [4]

The World Health Organization (WHO) defines Exclusive Breast Feeding (EBF) as a situation in which an infant receives only breast milk from his/her mother for the first 6 months of life and no other solids or liquids with the exception of drops or syrups consisting of vitamins, minerals, supplements, or medicines[5] . B reast-feeding advantages for both mother and baby have been documented and proven beyond doubt by many studies.[6] WHO recommends exclusive breast feeding for first six months of life to achieveoptimal growth, development and health.[3] TheAmericanAcademyofPediatrics(AAP)recommend sexclusivebreastfeeding for first six months of life andadvocates continued breastfeedingtill at least 12 months of age. After the age of one year it can be continued for as long as the mother and the baby desire.[7]Exclusive breast-feeding provides low cost, complete nutrition for the infant, protects them againstinfectionsincludinginfantdiarrhea, and prolongsl actationamenorrhea, thereby increasing birth spacing . [8]

Studies globally reveals that only 42 percent of just born infants are breastfed within an hour of birth [9] and only 46percent continue to breastfeed until the age of 2. [10]

InIndia, the practice of breastfeeding is strongly influenced by social, cultural, traditional practices and economic factors. Breastfeeding Promotion Network of India (BPNI), formed in 1991, aims to protect, promote and support breastfeeding[11] Government of India under the aegis of National Rural Health Mission, implements Integrated Management of Neonatal and Childhood Illnesses(IMNCI). Several studies have shown that urbanization has been inversely linked to prevalence of breast feeding. Earlyinitiation of breastfeeding shows a declining trend and is not seen in over 75% of the nation's children and over 50% of children have not been exclusivelybreastfed. But the practice of pre lacteal feeding continues to be present in significant proportion in both urban and rural populations.[12]

Theknowledgeandattitudestowardsexclusivebreastfeed ingisinfluencedbythenumber of factors like family pressures, literacy level of mother, socio-cultural traditions,maternalage,familyincome, socialclass.Most of the children who are not exclusively breastfed consume water, milk,formula, or complementary food in addition to breast milk, often leading toinfections. [13]

Breast-feeding has decline worldwide in recent years as a result of urbanization, socio-economic, changes in lifestyle, advertisements, marketing of infant milkformulae and maternal employment outside the home.[14] Each year inthe first week of August, National Breastfeeding week is celebrated to supportandpromote breastfeedingasthebestsource of nutrition for a baby. [15]

Thus, the present study was aimed to examine the infant feeding practices, knowledge and attitude towards breast feeding among Indian postnatal mother's using the IIFAS.

METHODS

The present study was carried out in Department of Pediatrics and Gynecology, United Institute of Medical Sciences, Prayagraj Uttar Pradesh. It was an observation cross-sectional study. A total of 190 mothers were enrolled fromApril 2023 to June 2023 with their written informed consent. The mothers were enrolled on the basis of the irinfant's birth age(motherswhohadinfantsbetweensixmonthsto1yearo fageandgestationalweekfrom37to42weeks).Mother'sw ith infants diagnosed with any kind of congenital disorder such as congenital heart disease., genetic disorder(Downsyndrome)etcandunwillingtoparticipate were excluded fromthe study.

Ethical Consideration

For human participants enrolment, approval was taken from Institutional EthicsCommittee,UnitedInstituteof MedicalScience,Prayagraj, Uttar Pradesh.

Data Collection

Data collection was carried out from them others attending the OPD after explaining them the whole purpose, risk and benefits of the study. Data wascollected through face -to face interview in their preferred language (Hindi) that approximately took 15-20mins each. After the data collection, subjects were also been educated about the importance of breast feeding.

Demographic Data Collection tool

The demographic history includes age, habit, religion of mother, type of family,mother's education, occupation, food habit, income and current breastfeedingpractices. The obstetrics history includes gravida, birth - age of infants, type ofdelivery etc.

Questionnaire Data Collection tool

A structured questionnaire was prepared to assess the knowledge, attitude towards the breastfeeding among postnatal mothers.

- Section-A consisted of 15 questions related to mothers' knowledge about Breastfeeding with two possible answers, "True or False". The possible scores ranged from 0 to 15.
- Section-B was a semi-structured questionnaire that included questions related to practices and preferences of mothers about breastfeeding.
- Section-C was a standardized attitude questionnaire (The Iowa infant feeding attitude scale-IIFAS) form others towards breastfeeding, a validated and reliable tool. It is a five-point Likertscale(stronglydisagreeto agreestrongly).

Validity and Reliability of the Data tools

The data tools used in the study was validated through subject's experts inmidwifery and from the Department of Pediatrics and Obstetrics. There were 90% agreement from the experts. Reliability of the tools were obtained by the test– retest method. The IIFAS is a standardized scoring tools to assess the attitude, knowledge, practice of breastfeeding.

Statistical analysis

Data were organized and interpreted using Microsoft Excel Sheet.

RESULTS

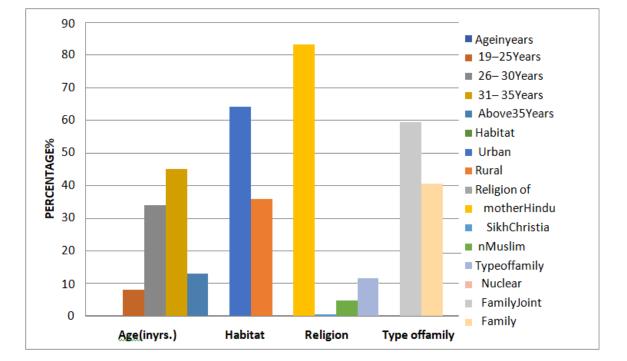
Figure 1, 2 and 3 represents the socio-demographic profile of breastfeedingamong mothers. Most of the mothers were in age of 31 to 35 year, belonging tour ban habitat. Maximum percentage were housewives and had primary education.

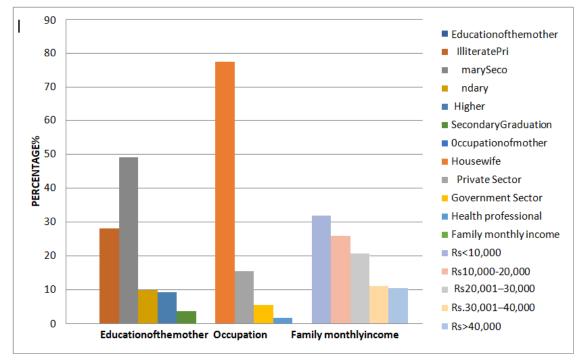
Table no 1: Represents the knowledge of mothers on breast feeding. 82% agreed that colostrums is important in maintaining the immunity of infants. 89.3% agreed that Exclusive breastfeeding is required for first 6month.

Table no 2: Represents the attitude of mothers on breastfeeding. 35.5% mothersagreed that formula milk feeding is more convenient then breastfeeding.

74.2% mothers agreed that breastfeeding increases mothers and infants bonding. 34.7% agreed that

formula-feeding is the better choice if the mother plans to go back towork.





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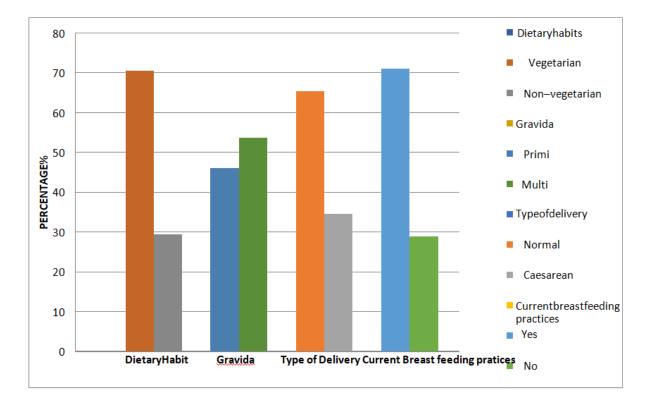


TABLE NO-1: KNOWLEDGE OF MOTHERS ON EXCLUSIVE BREASTFEEDING

S.no.	Statement	True	False
1	Colostrum is first breastmilk		10
2	Colostrum is important for the baby to maintain immunity	82.5	17.5
3	Burping should be done after each feed	92.7	7.3
4	Breastfeeding should be continued upto 2years	67.1	32.9
5	Exclusive breastmilk can be given during the first six months	89.3	10.7
6	Lactating mother should take healthy food to improve		
	secretion of milk	97.6	2.4
7	During breastfeeding, the mother should sit comfortably	100	-
8	During breastfeeding, them other should maintain eye to eye		
	Contact & talk with the baby	84.8	84.8
9	Wash each breast with warm water before breastfeeding	76.4	76.4
10	Awakening the baby while breastfeeding		61.9
11	Breastfeeding helps in mother and child bonding	95.4	95.4
12	Breastfeeding can prevent diseases affecting breast	96.1	96.1
13	Breastfeed affect the beauty of feeding mothers	41.6	41.6
14	The mother should not feed the child when she has diarrhea	41.9	41.9
15	Stop breast feeding when you start weaning	54.5	54.5

TABLENO-3:MOTHERS'ATTITUDESTOWARDS BREASTFEEDI2NG

S.no	Statements	Agree(%)	Neutral(%)	Disagree(%)
1.	The benefits of breast milk last only aslong as the	(83.1)	(8.9)	(8.1)
	baby is breastfed*			
2.	Formula feeding is more convenient than	(35.5)	(28.2)	(36.3)
	breastfeeding			
3.	Breast feeding increases mother- infant bonding	(74.2)	(21.8)	(4.0)
4.	Breast milk is lacking in iron*	(30.6)	(50.8)	(18.5)
5.	Formula-fed babies are more likely to be over fed than	(46.0)	(31.5)	(22.6)
	breast fed babies			
6.	Formula feeding is the better choice if the mother			
	plans to go back towork*	(34.7)	(34.7)	(30.6)
7.	Motherswho formula feedmiss one	(52.4)	(39.5)	(8.1)
	of the great joys of motherhood			

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8.	Women should not breastfeed in public places such as restaurants	(42.7)	(29.0)	(28.2)
9.	Breastfed babies are healthier than formula-fed babies	(71.0)	(17.7)	(11.3)
10.	Fathers feel left out if a mother breastfeeds*	(38.7)	(41.1)	(20.2)
11.	Breast milk is the ideal food for babies	(67.7)	(21.0)	(11.3)
12.	Breast milk is more easily digested than formula	(74.2)	(15.3)	(10.5)
13.	The formula is as healthy for an infant as breast milk*	(25.0)	(35.5)	(39.5)
14.	Breast feeding is more convenient than formula	(9.4)	(20.2)	(10.5)
15.	Breast milk is cheaper than formula	(75.0)	(21.0)	(4.0)
16.	A mother who occasionally drinks alcohol should not			
	breast feed her baby*	(54.8)	(33.9)	(11.3)

DISCUSSION

Breastfeeding is an essential practice in caring for newborn babies immediately after birth, which eventually has a vital role in reducing infant mortality andmorbidity. In developing countries like India, where health care facilities are inadequate, developing and implementing effective breast feeding practices would be easier to change the attitude of the mother and families.[16]

Inthepresentstudy, even though 80% of mother shadmini

maleducationalstatusand were housewives. It is evident that the higher the level of education of anursingmotherthehigher,thechancesofherbreastfeedin gherchildforalongerduration

[17].Severalstudiesconducted within Ghanahavereporte dthatmothers'levelofed ucation is a major determinant to the epractice of exclusive breastfeeding [18, 19, 20]. It is noted that women with secondary and tertiary education are more likely to be educated on breastfeeding, they are aware of its benefits to both babies and mothers, hence they are well motivated to breastfeed.

Colostrum is the yellowish, sticky milk called colostrum produced during thelatter part of pregnancy through to delivery and essential for newborn babies to maintain immunity. Colostrum is very definite in volume, appearance and composition, it contains an elevated level of immunologic components like secretory immunoglobulinA(IgA), lactoferrin, leukocytes and epidermal growth factor ford [21,22,23] evelopment. Inthepresentstudy,82.5% of mother sagree that colostrum is vital for the baby to maintain immunity. Colostrum was given to60.7% babies which is less than that reported by studies do neinMadhyaPradesh(82%) and Varanasi (90%).[24,25] A study by (Bala etal)reported that around 94.5% mothers agree that colostrum is the first

breast milkand 99.4% agree that colostrum maintains the immunity of the baby.[13] In the present study around 90% of mothers know that

In the present study around 90% of mothers know that exclusive breastfeedingfor the first six months is essential for the baby growth and development. Mostofthemothersknewabout the advantages of breastfeeding. They were also aware of enhanced mother baby bonding and its related impact like reduced stranger anxiety etc. Around 96% of mothersknew that breastfeeding could prevent diseases affecting breast. A similar studyinAbuDhabiwith344participantsalsoreportedthat 81.2% of mothers were knowing the importance of EBF.[26] The study was in concurrence with (Vinay BS et al., Bala, et al) study, who found that 69.5%,95.5%respectivelyofmotherswerelikingtogivee xclusivefeedingtill6monthsof age.[27,13].

(Mehdi &Mahanta et al) in their study on breastfeeding and weaningpractices reported 100% breast feeding rate was maintained throughout 0 to 12months.Exclusivebreast-feeding ratewas 69.35% upto6monthsof age.[28]

Weaning is a gradual process of starting supplementary feeds from 6 months ofage while continuing breast feeding for providing enough energy, protein andother nutrients to grow normally.[29]. In the present study 41.9% of mothers agreed that mothers should not feed the child when she has diarrhea, and near half of the mothers agree with the statement that they stop breastfeeding when they startweaning. (Bala et al) also reported that around 80.3% mothers agreed the same and stop breast feeding when they start weaning. [13] Similarly,69% of womenagreed that they stop breastfeed in gwhenthey startweaning and 44% motheragreed that the ydon'tfeed the child when their haved iarrhea. [30]

Inthepresentstudy,themothers'knowledgewasgoodcons ideringthemaximumof mothers were housewives (77.4) and (49.3%) of the mothers were primaryeducated.

The attitude was assessed by an internationally standardized scale, the IowaInfant Feeding Attitude Scale (IIFAS). In the present study nearly three-fourthsofthepostnatalmothershaveapositiveattitudethat breastfedbabiesarehealthierthan formula-fed babies, and breastfeeding improves mother-infant bonding.Manymothershadapositiveattitudethatbreastm ilkistheidealfoodforinfants.Themajorityoftheparticipan tsagreedthatbreastfeedingismoreconvenientthanformul afeeding(83.6%)andincreasesmother-

infantbonding(73.8%),[30]. A study reported by (Bala et al) reported that 82.5% mothers agree that breast milkismore digestive able then formula fed.[13]. Another study reported that 96.1% women agree that breast milkis superior then for mula-milk in fulfilling the nutritional requirement of infants and 94% confirms that it is beneficial for both mothers and infants.[26]

Furthermore, the present study reported that 25% of mothers agree with thestatementthattheformulamilkisashealthyforaninfantasbreastmilk,34% of mother s agree that Formula feeding is the better choice if the mother plans to go back to work, and 35% of mothers agree that formula feeding is more convenient than breastfeeding. The finding was accordance with another study that reported that 9.8% women agree that feeding is more convenient formulathen breastfeeding and 36.9% women agreed that it's a better choice if the mothers plans to resumeher workout side the home again. [30]. A study reported that 26.9% women agreed the same that formulafeeding is more convenient then breastfeeding. [13]

Moreover, in the present study 35% of mothers agreed that breast milk is lacking in iron, 42% of mothers agreedthatwomenshouldnotbreastfeedinpublicplacessu ch as restaurants and 54% of mothers agreed that mothers who occasionallydrink alcohol should not breastfeed their infants. (PoreddiVijayalakshmi et al.)hasreported19.7% womenagreedthatbreastfeedingin publicshouldbeavoided

and 50.8% agreed that women who occasionally drink alcohol should not breastfeed. [30]

Overall, the study shows that post natal mother's practices a ndpreferences towards breastfeeding is changing with time, which is helping in improving immunity and maintaining the good health of a newborn. Many mothers were aware of the importance of breastfeeding and had a positive attitude towards breastfeeding, but here are several as pects of breastfeeding which are still needed to highlight in details among mothers of newborn.

CONCLUSION

Itisapparentfromthecurrentstudythattheparticipantshav egood breastfeedingknowledge and attitudes, but their breastfeeding practices has a neutral responseand do not correspond to their acquired knowledge, highlighting the need and importance to provide prenatal education and counseling to mothers on breastfeeding. Furthermore, focus should be given on educating young girlsregarding breastfeeding, its need for the growth and development of infants, Exclusive breastfeeding, effects of formula – feeding etc. that would further magnify good health of new-born leading to heal thiers ociety.

RECOMMENDATION

Primaryhealthcarepractitioner,nursesandotherhealthcar eprofessionalsshouldcouncil and educate the mothers during antenatal and postnatal phase, as well astheir family members to support breastfeeding the child as it is importance for,they good health. It is also recommended to strengthening the public health education campaigns to promote breastfeeding.

LIMITATIONOFTHESTUDY

Present study findings are based on the self-reported by the study participants based on their recall ability, which may give rise to recall bias, small sample size that made difficult to generalize the findings.

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