

## Original Research Article

### **“AN EXPLORATORY STUDY TO IDENTIFY THE FACTORS AFFECTING BREASTFEEDING PRACTICES AMONG MOTHERS WITH CAESAREAN SECTION DELIVERY IN SELECTED MATERNITY HOSPITALS OF ANAND-KHEDA DISTRICT, GUJARAT.”**

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#### **ABSTRACT**

**Introduction:** The presented study to explore the factors affecting Breastfeeding practices among mothers with Caesarean section delivery in selected maternity hospitals of Anand-Kheda district, Gujarat was carried out by the researcher. **The objectives of the study were:** 1) To identify the factors affecting breastfeeding practices among mothers with Caesarean section delivery. 2) To find out the association of breastfeeding practices with selected demographic variables. **Research Methodology :** Research design selected for the present study was Non-Experimental Descriptive Exploratory Design. Sampling technique used in this study was Non-probability Consecutive sampling technique for selecting the 100 samples. The tool used in the study were demographic questionnaire, obstetric data, breastfeeding data and breastfeeding practice assessment by using standardized Jenson, Wallace, Kelsay's "LATCH SCALE." Validity of the tool was assessed by the 7 expert. Reliability of the tool was ascertained by using Karl Pearson's. Co-relation coefficient formula. **Data analysis and result:** The result of the study is analyzed on the basis of frequency as the values do not fit in the criteria of normal distribution, thus, the result is not generalized. On analyses, it was found that the factors which may affect the breastfeeding practice in mothers with caesarean section deliveries included preterm delivery of the baby (74%), mothers whose babies were admitted to NICU (28%), breastfeeding initiation in more than 6 hours (46%), mothers who had severe incision pain (21%). Moreover, babies who did not have skin to skin contact with their mother (15%) and also who were given pre-lacteal feed (26%) contributed to the factors that affected. Many factors which were found to improve the practice included the mothers who had proper antenatal care (48%), mother whose baby met her in less than 1 hour (46%) and initiated breastfeeding in that same time. Family support to breastfeed (75%) also lent towards good practice. The findings indicated that demographic variable paternal education (calculated value=23.33; table value=15.51) shows the significant association with breastfeeding practice. **Conclusion:** The study concluded that preterm delivered baby, admission of baby in NICU, more time in breastfeeding initiation, severe incision pain, lack of skin to skin contact, babies who received pre-lacteal feed were identified to be the factors which affected breastfeeding practices in mothers with Caesarean section delivery in this particular study.

**Key Words:** Breastfeeding practice, Caesarean section, Latch scale

## **INTRODUCTION**

Breastfeeding is the process of feeding the infant, with the mother's milk either pumped or expressed. [1] Many literatures suggest that breastfeeding protects babies from disease like diarrhoea and acute respiratory infections, stimulates the immune systems & improves response to vaccinations. Breastfeeding promotes a child's overall development including cognitive, psychosocial, and emotional development. Breastfeeding creates a special bond between mother & baby which offers unique interaction and stimulation, along with the balance of protein and energy & micronutrients which helps in growth and development & gives a sense of well-being and security. It also benefits the mother's health by helping the uterus to contract early after delivery which reduces chances of prolonged bleeding. Breastfeeding also reduces the mother's risk of ovarian and breast cancer. [2] The delivery through caesarean sections is an operative approach replacing the natural process of delivery. Many literatures show that having a delivery by caesarean section is associated with non-initiation or delayed initiation of breastfeeding as well as with the discontinuation of exclusive breastfeeding or even total stopping of the process. Previous researches shows that a number of factors have been associated with breastfeeding including socioeconomic variables of the mother, cultural environment & the support the mother gets from the family and community. [3] Caesarean sections are effective in saving lives of parturient women & perinatal infants under abnormal labour process. Anyhow, it also comes with challenges, one of which is breastfeeding. Mothers with CS delivery have a lower rate in early initiation of breastfeeding & duration of breastfeeding. Mothers with CS delivery not only have delayed breastfeeding after delivery but also have lower rate of exclusive breastfeeding & a shortened duration of breastfeeding. Promoting breastfeeding has become one of the major initiatives for improving mother's and children's health, and therefore, it is necessary to understand the factors affecting breastfeeding, especially in mothers with CS delivery. [4] pregnancy brings a drastic change in women's life as she experience various changes going on in her body also she experience a great pleasure of a new life growing inside her body which is about to come. After pregnancy comes labour, Labour is the process where different changes takes in the genital organs for the expulsion of the baby.<sup>15</sup>

## **OBJECTIVES**

1. To identify the factors affecting breastfeeding practices among mothers with Caesarean section delivery.
2. To find out the association of breastfeeding practices with selected demographic variables.

## **ASSUMPTIONS**

1. Breastfeeding practices maybe affected by various factors in mothers with Caesarean section delivery.
2. There may be significant association of breastfeeding practices with selected demographic variables

## MATERIAL AND METHODS

- **Research approach:** Quantitative approach
- **Research design:** Non-Experimental Descriptive Exploratory Study
- **Target population:** Mothers with Caesarean section delivery among selected maternity hospitals of Anand-Kheda district.
- **Sampling technique:** Non-probability consecutive sampling technique
- **Sample size:** 100 Mothers with Caesarean section delivery
- **Data collection tool:**

### Section A:

#### I. Demographic Data

#### II. Obstetrical Data

### Section B:

#### I. Breastfeeding Data

#### II. Breastfeeding Practices Assessment:

Breastfeeding practices assessment will be assessed by using standardized Jenson, Wallace, Kelsay's "LATCH SCALE."

- **Data analysis:** Descriptive Statistics and inferential statistics
- **Criteria measured:** Identification of factors affecting breastfeeding practice in caesarean section mothers.

## RESULTS AND DISCUSSION

### 1. Findings related to factors affecting breastfeeding practice

According to selected demographic variables, mothers having age 30-34 (42.9%); living in rural area (17.4%); religion is Hindu (57.1%); having no formal (28.6%), secondary (28.6%) and graduate (28.6%); paternal education up to primary education (57.1%); mother's occupation housewife (57.1%); type of work heavy (42.9); Income 5000-15000 (42.9%) and 15001-25000 (42.9%); number of children 1 and 2 (42.9% and 42.9%) respectively were found to have poor breastfeeding practice among the 7 samples out of 100 total samples who were found to have poor practice of breastfeeding.

From the obstetrical data mothers having intended pregnancy (71.4%); multipara mothers (57.1%); place of ANC private clinic (57.1%); number of ANC visit less than or equal to 4 (71.4%); EIBF counselling not given (71.4%); length of pregnancy 8 months (42.9%); Type of Caesarean section elective (85.7%); Pain at incision site mild (42.9%); number of simultaneous pregnancy singleton (71.4%); baby admitted to NICU (71.4%) were found to have poor breastfeeding practice among the 7 samples out of 100 total samples who were found to have poor practice of breastfeeding.

From the Breastfeeding data mothers who had not initiated breastfeeding within 1 hour (71.4%); baby met mother in more than 5 hours (71.4%); breastfeeding initiation hours 6-12 hours (42.9%), no skin to skin contact (57.1%), pre-lacteal feed given (71.4%), honey given (57.1%), not received help in

breastfeeding from staff (85.7%); don't have correct practice of breastfeeding (71.4%); mothers giving feeding in side-lying position (71.4%); who did not receive support from family (71.4%); who gave feeding on demand (42.9%) were found to have poor breastfeeding practice among the 7 samples out of 100 total samples who were found to have poor practice of breastfeeding.

## **2. Findings related to demographic variables of samples**

With regards to age 13(13%) were of 18-21years, 25(25%) were of 22-25 years, 27(27%) were of 26-29 years and 35(35%) were 30-34 years; for residence, 46(46%) belonged to rural area and 54(54%) were from urban; with regards to religion, 49(49%) were Hindu, 17(17%) were Muslim, 30(30%) were Christian, and 4(4%) were others; in maternal education 17(17%) were Not formally educated, 24(24%) had primary education, 23(23%) had secondary education, 25(25%) were graduated and 11(11%) had further higher education; with regards to Paternal education, 6(6%) were Not formally educated, 21(21%) had primary education, 23(23%) had secondary education, 42(42%) were graduated and 8(8%) had further higher education; maternal occupation 13(13%) were government employee, 14(14%) were self-employed, 13(13%) were daily laborer, 51(51%) were housewives and 9(9%) had other occupation; in type of work, 20(20%) had heavy work, 27(27%) had moderate work 50(50%) had mild work and 3(3%) had sedentary lifestyle; with regards to monthly income 12(12%) had less than 5000 income, 30(30%) had 5000-15000 income, 30(30%) had 15001-25000 income and 28(28%) had income more than 25000; with regards to number of children 46(46%) had 1 child, 40(40%) had 2 children, 12(12%) had 3 children and 2(2%) had children equal to or more than 4.

## **3. Findings related to obstetrical data of samples**

With regards to type of pregnancy, 79(79%) had intended pregnancy and 21(21%) had non-intended pregnancy; with regards to Parity, 52(52%) were Primipara and 45(48%) were Multiparous; in the matter of place of Antenatal care follow-up, 17(17%) went to public institution, 67(67%) went to private clinic, 5(5%) went to NGO, 12(12%) went to maternity center; with regards to number of ANC visits, 16(16%) had no visit, 36(36%) had less or equal to 4 visits, 48(48%) had greater than 4 visits; With regards to Early Initiation of Breastfeeding counseling, 72(72%) were counseled and 28(28%) were not counseled; in respect to length of pregnancy, 74(74%) had pregnancy duration of 7 months, 22(22%) had duration of 8 months and 4(4%) had duration of equal to or more than 9 months; concerning to type of Caesarean Section, 62(62%) had elective surgery while 38(38%) had emergency surgery; with regards to Pain at incision site, 29(29%) had mild pain, 50(50%) had moderate pain and 21(21%) had severe pain; with regards to Number of simultaneous pregnancies, 19(19%) had twin babies and 81(81%) had were singleton; with regards to admission of baby into the NICU, 28(28%) babies were admitted and 72(72%) weren't.

## **4. Findings related to Breastfeeding data of samples**

With regards to the initiation of breastfeeding 45(45%) initiated feeding within 1 hour of delivery, 55(55%) did not initiate from which 2(3.63%) fed expressed breast milk, 22(40%) fed formula feed, 5(9.1%) gave other foods and 26(47.27%) did not give anything; concerning to hours of baby meeting mother, 46(46%) met within less than 1 hour, 30(30%) met within 1-3 hours, 13(13%) met within 6-10 hours and 11(11%) met in more than 10 hours, with regards to Breastfeeding initiation hours 44(45%) initiated in less than 1 hour, 26(26%) initiated within 1-6 hours, 14(14%) initiated within 6-12 hours, 16(16%) initiated in more than 12 hours, concerning to reason for not initiating breastfeeding within 1 hour of delivery, 29(29%) mothers were in recovery room, 11(11%) babies were in nursery, in 10(10%) mothers had no breast milk produced, 4(4%) mothers had severe pain; with regards to skin-to-skin contact of baby with mother, 85(85%) had maintained contact while 15(15%) did not maintain, concerning to Pre-lacteal feed, 26(26%) gave feed while 74(74%) did not; with regards to other liquids, 14(14%) gave other fluid, 4(4%) gave honey and 82(82%) gave nothing; concerning to breastfeeding help from the staff, 43(43%) got help and 57(57%) did not; with regards to correct practice of breastfeeding, 79(79%) had correct practice and 21(21%) did not have; concerning to the position of breastfeeding, 40(40%) used cradle position, 44(44%) used side-lying, 10(10%) had laid back and 6(6%) used other positions; with regards to support of family in exclusive breastfeeding, 75(75%) got support and 25(25%) did not; with regards to frequency of breastfeeding, 31(31%) fed on demand, 35(35%) fed 1 hourly, 28(28%) fed 2 hourly and 9(9%) had other feeding frequencies.

## 5. Findings related to Breastfeeding assessment

On assessment of breastfeeding practice, 7(7%) had poor practice, 39(39%) had moderate practice and 54(54%) had good practice.

## 6. Findings related to association of Breastfeeding practices with demographic variables (N=100)

The demographic variable-Paternal education was found to be having association with breastfeeding practices.

## TABLES AND GRAPHS

**Table 1. Frequency and percentages wise distribution of sample based on demographic variable such as age, residence of mother, religion, maternal education, paternal education, maternal occupation, type of work, monthly income of the family, and number of children**

Sr. No	Demographic variables	Frequency(f)	Percentage (%)
1	Age of mother		
	<input type="checkbox"/> 18-21	13	13%
	<input type="checkbox"/> 22-25	25	25%
	<input type="checkbox"/> 26-29	27	27%

	<input type="checkbox"/> 30-34	35	35%
2	Residence of mother <input type="checkbox"/> Rural <input type="checkbox"/> Urban	46 54	46% 54%
3	Religion <input type="checkbox"/> Hindu <input type="checkbox"/> Muslim <input type="checkbox"/> Christian <input type="checkbox"/> Other	49 17 30 04	49% 17% 30% 04%
4	Maternal Education <input type="checkbox"/> Not formal education <input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> Graduate <input type="checkbox"/> Post-graduate and/or higher	17 24 23 25 11	17% 24% 23% 25% 11%
5	Paternal Education <input type="checkbox"/> Not formal education <input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> Graduate <input type="checkbox"/> Post-graduate and/or higher	06 21 23 42 08	06% 21% 23% 42% 08%
6	Maternal Occupation <input type="checkbox"/> Government employed <input type="checkbox"/> Self employed <input type="checkbox"/> Daily labourer <input type="checkbox"/> Housewife <input type="checkbox"/> Other	13 14 13 51 09	13% 14% 13% 51% 09%
7	Type of work (Mother) <input type="checkbox"/> Heavy work <input type="checkbox"/> Moderate work <input type="checkbox"/> Mild work <input type="checkbox"/> Sedentary lifestyle	20 27 50 03	20% 27% 50% 03%
8	income of the family <input type="checkbox"/> Less than 5000 <input type="checkbox"/> 5000-15000 <input type="checkbox"/> 15001-25000 <input type="checkbox"/> More than 25000	12 30 30 28	12% 30% 30% 28%
9	Number of children <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> $\geq 4$	46 40 12 02	46% 40% 12% 02%

**Table 2. Analysis and interpretation of the obstetrical data**

Sr no.	Obstetrical Data	Frequency(f)	Percentage (%)
1	Type of pregnancy <input type="checkbox"/> Intended <input type="checkbox"/> Unintended	79 21	79% 21%
2	Parity <input type="checkbox"/> Primipara <input type="checkbox"/> Multipara	52 48	52% 48%
3	Place of ANC follow up <input type="checkbox"/> Public institution <input type="checkbox"/> Private clinic <input type="checkbox"/> NGO <input type="checkbox"/> Maternity centre	17 67 5 11	17% 67% 5% 11%
4	Number of ANC visit <input type="checkbox"/> No visit <input type="checkbox"/> Less or equal to 4 <input type="checkbox"/> Greater than 4	16 36 48	16% 36% 48%
5	Was Early Initiation of Breastfeeding counselling given during Antenatal visit? <input type="checkbox"/> Yes <input type="checkbox"/> No	72 28	72% 28%
6	Length of Pregnancy <input type="checkbox"/> 7 months <input type="checkbox"/> 8months <input type="checkbox"/> ≥9 months	74 22 4	74% 22% 4%
7	Type of Caesarean Section <input type="checkbox"/> Elective <input type="checkbox"/> Emergency	62 38	62% 38%
8	Pain at incisional site <input type="checkbox"/> Mild (1-3) <input type="checkbox"/> Moderate (4-7) <input type="checkbox"/> Severe (8-10)	29 50 21	29% 50% 21%
9	Number of simultaneous pregnancies <input type="checkbox"/> Twin <input type="checkbox"/> Singleton	19 81	19% 81%
10	Baby admitted to NICU <input type="checkbox"/> Yes <input type="checkbox"/> No	28 72	28% 72%

**Table 3. Analysis and interpretation of the breastfeeding data**

Sr. no.	Breast feeding data	Frequency(f)	Percentage(%)
1	Breastfeeding given? <input type="checkbox"/> Yes <input type="checkbox"/> No If No – <input type="checkbox"/> Expressed <input type="checkbox"/> Formula <input type="checkbox"/> Any other <input type="checkbox"/> None	45 55  2 22 5 27	45 55  2% 22% 5% 27%
2	Baby met mother after Caesarean Section (hours) <input type="checkbox"/> Less than 1 <input type="checkbox"/> 1-5 <input type="checkbox"/> 6-10 <input type="checkbox"/> Greater than 10	46 30 13 11	46% 30% 13% 11%
3	Breastfeeding initiation after Caesarean section (hours) <input type="checkbox"/> Less than 1 <input type="checkbox"/> 1-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> Greater than 12 <input type="checkbox"/> Not given	44 26 14 16 0	44% 26% 14% 16% 0%
4	Reason for not initiating breastfeeding within an hour after delivery <input type="checkbox"/> Mother was in recovery room <input type="checkbox"/> Baby was in nursery <input type="checkbox"/> Breast milk was not produced <input type="checkbox"/> Mother had severe pain	29 11 10 4	29% 11% 10% 4%
5	Skin to skin contact of mother and baby? <input type="checkbox"/> Yes <input type="checkbox"/> No	85 15	85% 15%
6	Pre-lacteal feed? <input type="checkbox"/> Yes <input type="checkbox"/> No	26 74	26% 74%
7	Liquids other than feed <input type="checkbox"/> Other fluid <input type="checkbox"/> Honey <input type="checkbox"/> Nothing	14 4 82	14% 4% 82%
8	Did you need any kind of help from staff? <input type="checkbox"/> Yes <input type="checkbox"/> No	43 57	43% 57%
9	Correct practice of Exclusive Breastfeeding? <input type="checkbox"/> Yes <input type="checkbox"/> No	79 21	79% 21%
10	Position of breastfeeding usually followed <input type="checkbox"/> Cradle <input type="checkbox"/> Side-lying <input type="checkbox"/> Laidback <input type="checkbox"/> Others	40 44 10 6	40% 44% 10% 6%
11	Others Support of family in Exclusive		

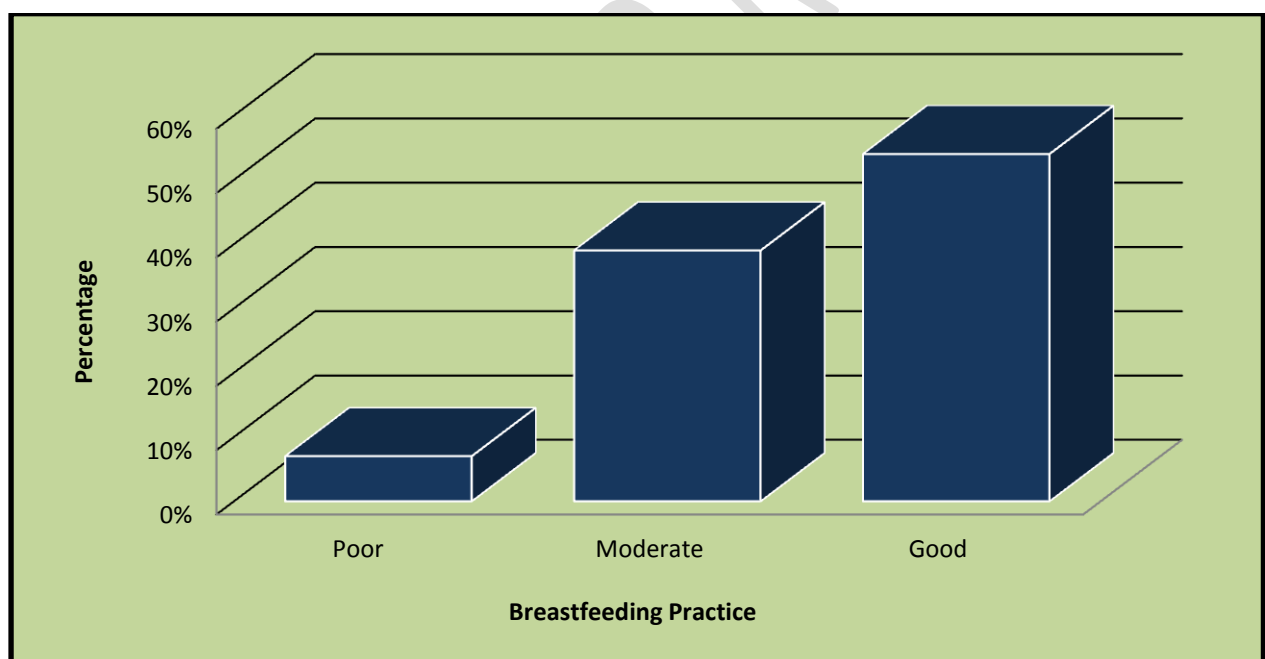


	Breastfeeding? <input type="checkbox"/> Yes <input type="checkbox"/> No	75 25	75% 25%
12	Frequency of breastfeeding <input type="checkbox"/> On demand <input type="checkbox"/> 1 hourly <input type="checkbox"/> 2 hourly <input type="checkbox"/> Others	31 35 28 9	31% 35% 28% 9%

**Table 4.** Shows that on assessment of breast-feeding practice using the standardized “LATCH SCALE”, 7(7%) with poor practice, 39(39%) with moderate practice, 54(54%) with good practice of breastfeeding.

Sr no.	LATCH SCALE SCORE	Frequency(f)	Percentage (%)
1.	Breast feeding practice assessment <input type="checkbox"/> Poor <input type="checkbox"/> Moderate <input type="checkbox"/> Good	7 39 54	7% 39% 54%

**Fig. 1.** Analysis and interpretation of breastfeeding practice using the latch scale (n=100)



**Table 5.** Analysis and interpretation of data related to association of breastfeeding practice with selected demographic variable in non-experimental group

Sr. No	Demographic variables	Frequency (f)	X <sup>2</sup>		df	Association
			Calculated Value	Table Value		
1	Age of mother <input type="checkbox"/> 18-21 <input type="checkbox"/> 22-25	13 25	7.55	12.59	6	Not Significant

	<input type="checkbox"/> 26-29 <input type="checkbox"/> 30-34	27 35				
2	Residence of mother <input type="checkbox"/> Rural <input type="checkbox"/> Urban	46 54	2.43	5.99	2	Not Significant
3	Religion <input type="checkbox"/> Hindu <input type="checkbox"/> Muslim <input type="checkbox"/> Christian <input type="checkbox"/> Other	49 17 30 04	12.15	5.99	2	Not Significant
4	Maternal Education <input type="checkbox"/> Not formal education <input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> Graduate <input type="checkbox"/> Post-graduate and/or higher	17 24 23 25 11	10.96	15.51	8	Not Significant
5	Paternal Education <input type="checkbox"/> Not formal education <input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> Graduate <input type="checkbox"/> Post-graduate and/or higher	06 21 23 42 08	23.33	15.51	8	Significant
6	Maternal Occupation <input type="checkbox"/> Government employed <input type="checkbox"/> Self employed <input type="checkbox"/> Daily labourer <input type="checkbox"/> Housewife <input type="checkbox"/> Other	13 14 13 51 09	12.58	15.51	8	Not Significant
7	Type of work (Mother) <input type="checkbox"/> Heavy work <input type="checkbox"/> Moderate work <input type="checkbox"/> Mild work <input type="checkbox"/> Sedentary lifestyle	20 27 50 03	7.17	12.59	6	Not Significant
8	Income of the family <input type="checkbox"/> Less than 5000 <input type="checkbox"/> 5000-15000 <input type="checkbox"/> 15001-25000 <input type="checkbox"/> More than 25000	12 30 30 28	6.34	12.59	6	Not Significant
9	Number of children <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> $\geq 4$	46 40 12 02	12.53	12.59	6	Not Significant

## CONCLUSION

The present study was designed to identify the factors affecting the breastfeeding practices in mothers with caesarean section delivery in selected maternity hospitals of Anand-Kheda district, Gujarat.

The result of the study is analyzed on the basis of frequency as the values do not fit in the criteria of normal distribution, thus, the result is not generalized. On analyses, it was found that the factors

which may affect the breastfeeding practice in mothers with caesarean section deliveries included preterm delivery of the baby, mothers whose babies were admitted to NICU, breastfeeding initiation in more than 6 hours, mothers who had severe incisional pain. Moreover, babies who did not have skin to skin contact with the mother and also who were given pre-lacteal feed contributed to the factors that affected. Many factors which were found to improve the practice included the mothers who had proper antenatal care, mother whose baby met her in less than 1 hour and initiated breastfeeding in that same time. Family support to breastfeed also lent towards good practice.

The findings indicated that the demographic variable paternal education is found to be having association with Breastfeeding practice.

### **Ethical Approval**

The study was approved by the institutional ethical committee of Dinsha Patel College of Nursing, research committee. There are total 15 members in the committee from various departments. The Ethical approval reference number is DPCN/2<sup>nd</sup> IEC/2020-21/14 and a formal written permission was gathered from the authority of or Principal of Institute prior to data collection.

### **REFERENCES**

1. <https://milkology.org/content/breastfeeding-encouragement-quotes>
2. **Bekalugetnet, Alemu Degu & Fantahun Yenealem (2020)** Prevalence and associated factors of early initiation of breastfeeding among women delivered via cesarean section. *BMC*. <https://mhnpjournal.biomedcentral.com/articles/10.1186/s40748-020-00121-3>
3. **Zahra Shaheen Premani, Zohra Kurji & Yasmin Mithani (2011)** To explore the experience of women on reasons in initiating and maintaining breastfeeding. *ISRN Pediatrics*. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3263569/>
4. **Ekbali Abd El, Aml Ali (2019)** Factors influencing breastfeeding practice after caesarean section delivery. *Research Gate*. [https://www.researchgate.net/publication/334031379\\_Factors\\_influencing\\_breastfeeding\\_practice\\_after\\_cesarean\\_section\\_delivery](https://www.researchgate.net/publication/334031379_Factors_influencing_breastfeeding_practice_after_cesarean_section_delivery)
5. **Juan Wen, Guiling Yu, Yan Kong, Furong Liu, Holly Wei (2020)** An exploration of the breastfeeding behaviours after cesarean section. *International journal of nursing science*. <https://www.sciencedirect.com/science/article/pii/S2352013220301174>
6. **Yuanjue Wu, Yan Wang, et. al (2018)** The association between caesarean delivery and the initiation & duration of breastfeeding. *National library of Medicine* <https://pubmed.ncbi.nlm.nih.gov/29670258/>
7. **Ekbali Abd El Rheem Emam & Aml Sayed Ali (2017)** Factors influencing breastfeeding practice after caesarean section delivery. *Research Gate*.

[https://www.researchgate.net/publication/334031379\\_Factors\\_influencing\\_breastfeeding\\_practice\\_after\\_cesarean\\_section\\_delivery](https://www.researchgate.net/publication/334031379_Factors_influencing_breastfeeding_practice_after_cesarean_section_delivery)

8. **NuketPaksoyErbaydar and TugruaErbaydar (2020)** Relationship between caesarean section and early breastfeeding. BMC Pregnancy and childbirth. <https://bmcpregnancychildbirth.biomedcentral.com/articles/10.1186/s12884-020-2732-6>
9. **Amy J. Hobbs, Cinthia A. Mannion, et. al (2016)** The impact of Caesarean section on breastfeeding initiation, duration and difficulties in first four months postpartum. BMC Pregnancy and childbirth. <https://bmcpregnancychildbirth.biomedcentral.com/articles/10.1186/s12884-016-0876-1>
10. **Reyhaneh Rafizadeh, Zahra Heidari, ET. al (2019)** Factors affecting with breastfeeding practice among a sample of Italian women. Italian journal of Pediatrics <https://ijponline.biomedcentral.com/articles/10.1186/s13052-019-0724-9>
11. **HavvaCakmak et al. Int J Nurs Stud. (2007)** Comparison of the breastfeeding patterns of mothers who delivered their babies per vagina and via caesarean section. National library of Medicine. <https://pubmed.ncbi.nlm.nih.gov/16839557/>
12. **Naydi Pérez-Ríos, MS, et. al (1996)** The relationship between caesarean section delivery and the initiation of breastfeeding. Journal of humanlactation <https://journals.sagepub.com/doi/abs/10.1177/0890334408316078>
13. **Amanda veile, Karen Kramer(2014)** Birth and breastfeeding dynamics in a modernizing indigenous community. Journal of human lactation. <https://journals.sagepub.com/doi/10.1177/0890334414557177>
14. **Neha Parmar(2017)** A Study to Evaluate the Effectiveness of Planned Teaching Programme on Thermoregulation of Neonates in Terms of Knowledge and Practice among staff nurses working in Neonatal Intensive Care Unit (N.I.C.U) of Selected Government Hospitals attached with Medical College in Gujarat state. *Asian J. Nur. Edu. and Research*.2017; 7(4): 586-588. doi:10.5958/2349-2996.2017.00114.8 Available on: <https://ajner.com/AbstractView.aspx?PID=2017-7-4-26>
15. **Neha Parmar(2019)** “A Study To Assess The Effectiveness Of Ambulation During The First Stage Of Labor On Intensity Of Labour Pain And Duration Of First Stage Of Labour Among The Primigravida Mothers At Selected Hospitals Of Kheda-Anand District, Gujarat”, International Journal of Emerging Technologies and Innovative Research (www.jetir.org | UGC and issn Approved), ISSN:2349-5162, Vol.6, Issue 6, page no. pp216-221, June 2019, Available at : <http://www.jetir.org/papers/JETIR1906W28.pdf>

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