A Comparative Study of Exclusive Breastfeeding Practices Among Working and Non-Working Women in Bharatpur-Tandi, Chitwan, Nepal

Sabina Duwadi 1 and Hari Prasad Upadhyay 2*

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ABSTRACT

Background: Breastfeeding has been accepted as the most vital intervention for reducing infant mortality, ensuring optimal growth and development of children. Twenty-two percent of newborn deaths can be prevented through breastfeeding in the first hour of birth.

Objective: The objective is to find the proportion of exclusive breastfeeding practices among working and non-working women and significant factors associated with exclusive breastfeeding practices. Exclusive breastfeeding means a baby receives only breast milk without any additional food or drinks, including water until 6 months of age.

Materials and Methods: Semi-structured schedule was adopted to take the information from the respondents. The sample size of the study was 140 of which 70 working and 70 non-working women were selected purposively.

Results: The percentage of exclusive breastfeeding practices among working women was 67.10% and 81.4% among non-working women. More than 90% of the women knew the importance of breastfeeding. Similarly, 68.9% of working and 67.7% of the non-working women had initiated breastfeeding within one hour of birth. Type of family, number of children, working hour were statistically significant to exclusive breastfeeding practices.

Conclusion: Exclusive breastfeeding practices were quite higher among non-working women compared to working women. In order to improve breastfeeding practices the concerned authority should formulate the provision of child health care center at working places.

Keywords: Breastfeeding, breastfeeding practices, comparative study, exclusive breastfeeding, nonworking women, working women.

Address correspondence to the author: College of Medical Sciences, Chitwan, Nepal E-mail: bscsabina98458@gmail ¹; E-mail: hpchalise@gmail.com *² (Corresponding author email)

INTRODUCTION

Breastfeeding has been accepted as the most vital intervention for reducing infant mortality, ensuring optimal growth and development of children. Proper breastfeeding provides all essential nutrients for the first 6 months and it is one of the cost-effective intervention for reducing childhood morbidity and mortality. However, despite the demonstrated benefits of breastfeeding, breastfeeding prevalence and duration are still lower than the international recommendations of exclusive breast feeding (EBF) for the first 6 months of life in many developing countries. Every year 57,000 underfive children lose their lives, among which 54 % of death occurs within the first month of life, 22 % of newborn deaths can be prevented through breastfeeding within the first hour of birth. Currently, only 53% of babies in Nepal are breastfed exclusively until the age of 6 months and 35% are breastfed within the first hour of birth. At present, 11% of under-5 year children in Nepal are underweight and 29% are wasted (Ministry of Health and Population [MOHP] [Nepal], New ERA, and ICF International Inc., 2012). A study of infant feeding practices of mothers in an urban area of Pokhara in Nepal revealed that among 168 mothers interviewed prevalence of breastfeeding was 99.4% (167). Only 43.5% of the mothers initiated breastfeeding within one hour of birth and 60.5% were practicing exclusive breastfeeding at 5 months (Subba et.al., 2007).

In Nepal, infant mortality rate (IMR) is very high which is 46 per 1000 live births per year (NDHS, 2011). Globally, an estimated 1.3 million lives are lost each year due to inadequate exclusive breast feeding. Less than 35% of infants worldwide are exclusively breastfed during the first six months of life. Furthermore, malnutrition is responsible for one-third of the 8.8 million deaths annually among children under five. Over two-third of these deaths are often associated with inappropriate feeding practices such as bottle-feeding. More than 15% of 24 lakh child deaths could be averted in India by optimal breastfeeding practices. Breastfeeding is the ideal method suited for the physiological and psychological needs of an infant (Ekambaram, Bhat & Ahamed, 2010). The mother's antibody is in the breast milk provides immunity to infants to protect from different diseases (World Health Organization, 2007).

MATERIALS AND METHODS

Study design

The comparative analytical study design was used to find the breastfeeding practices among working and non-working women.

Population and sample

The study population was total working and nonworking breastfeeding mothers having children aged between 6 month and 1 year living in Ratnanagar-2 Tandi, Chitwan. Data was collected from 2074/05/10 to 2074/05/24. To get the estimated sample, firstly all the list of the total female population and child population under 1 year was collected from ward office and Ratnanagar Hospital of Ratnagar-2 Tandi, Chitwan. The total female populations were 2600 and child populations under 1 year were 970. In order to meet the sample size for the study, different houses were visited and selected. The mother having the children aged between 6 months to 1 year and also the working and non-working status of mother were identified by obtaining information from them. The willing participants were selected for the study. Out of total population, only 140 participants were selected purposively in which 70 were working and 70 were non-working women. Semi-structured interview schedule was used to collect the information.

Reliability of instrument

After the question was design, pre-test was done in Bharatpuur-10 by taking 10% sample size. After the pilot study some questions was modify. The reliability was calculated by using Cronbach's alpha (in SPSS). The value was 0.67, which shows the acceptable level of reliability of the tool. Research proposal approval was taken from concerned authorities (Institution research committee board, community and respondents).

Data analysis plan

First of all the data were collected from study area. Data was checked, reviewed and organized for accuracy and completeness before coded. Data were entered into the Epidata Version 3.1 and statistical package for the social sciences (SPSS) 20.0. After double checking the completeness of the data, data were analyzed using SPSS 20.0 in descriptive and inferential statistics. Descriptive statistics of quantitative data was presented by frequency and percentage. In the inferential statistics, Chi-square test was used to find association.

RESULTS

Results of data analysis is presented in this section. Socio demographic information of the respondents was present in Table 1. Regarding the age of the respondent, in the working group 35 (50%) are in 25-30 years age group, followed by 21 (30%) in the age group 20-25 years age, while in the working group, 28 (40%) respondents are in the age group 25-30 years age, followed by 26 (37.10%) in the age group 20-25. Regarding the type of family, in the working age group 36 (51.40%)

belonged to nuclear family, while other belonged to joint family. In the non-working age group 37 (52.90%) were in the nuclear family and other belonged to joint family.

Table 1. Socio-demographic characteristics of working and non-working women, n = 140.

Characteristics	Working women		Non-working women		
Age	Frequency	Percent	Frequency	Percent	
15-20	1	1.40	4	5.70	
20-25	21	30	26	37.10	
25-30	35	50	28	40	
30-35	12	17.10	10	14.30	
35-40	1	1.40	2	2.90	
$Mean \pm SD$	26.57±	3.69	25.60±4.05		
Type of family					
Nuclear	36	51.40	37	52.90	
Joint	34	48.60	33	47.10	
Ethnicity					
Brahmin	24	34.30	21	30.00	
Newar	8	11.40	6	8.60	
Chhetri	13	18.60	11	15.70	
Gurung/Magar/Tamang	9	12.90	11	15.70	
Others	16	22.90	21	30.00	
Religion					
Hindu	59	84.30	60	85.70	
Buddhist	8	11.40	4	5.70	
Christian	1	1.40	4	5.70	
Muslim	2	2.90	2	2.90	
Educational status					
Literate	70	100.00	67	95.70	
Illiterate	-	-	3	4.30	
Occupation					
Business	32	45.70			
Service	11	15.70			
Teaching	22	31.40			
Wage labor	5	7.10		Contd	

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Monthly income 10000 to 20000 27 38.60 20000 to 30000 30 42.90 30000 to 40000 7 10.00 40000 and above 6 8.60 Number of children					
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Sex of your last born child Male 39 55.70 40 57.10 Female 31 44.30 30 42.90 ANC checkup Yes 70 100 70 100 No - - - - How many times One time 1 1.40 - 0.00 Two time 1 1.40 1 1.40 Three time 5 7.10 9 12.90 Four time 22 31.40 24 34.30 More than four time 41 58.60 36 51.40 Place of delivery Home 2 2.90 1 1.40 Hospital 68 97.10 69 98.60 Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	8 to 10 month	20	28.60	23	32.90
Male 39 55.70 40 57.10 Female 31 44.30 30 42.90 ANC checkup Yes 70 100 70 100 No - - - - - How many times One time 1 1.40 - 0.00 Two time 1 1.40 1 1.40 Three time 5 7.10 9 12.90 Four time 22 31.40 24 34.30 More than four time 41 58.60 36 51.40 Place of delivery Home 2 2.90 1 1.40 Hospital 68 97.10 69 98.60 Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	10 to 12 month	33	47.10	37	52.90
Female 31 44.30 30 42.90 ANC checkup Yes 70 100 70 100 No - 0.00 - - - 0.00 - - 1.40 - 1.40 - - 1.40 - - - - - - - - - - - - - - - - - -	Sex of your last born child				
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No - 0.00 Two time 1 1.40 <td>ANC checkup</td> <td></td> <td></td> <td></td> <td></td>	ANC checkup				
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Four time 22 31.40 24 34.30 More than four time 41 58.60 36 51.40 Place of delivery Home 2 2.90 1 1.40 Hospital 68 97.10 69 98.60 Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	Two time	1	1.40	1	1.40
More than four time 41 58.60 36 51.40 Place of delivery Home 2 2.90 1 1.40 Hospital 68 97.10 69 98.60 Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	Three time	5	7.10	9	12.90
Place of delivery Home 2 2.90 1 1.40 Hospital 68 97.10 69 98.60 Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	Four time	22	31.40	24	34.30
Home 2 2.90 1 1.40 Hospital 68 97.10 69 98.60 Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	More than four time	41	58.60	36	51.40
Hospital 68 97.10 69 98.60 Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	Place of delivery				
Type of delivery Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	Home	2	2.90	1	1.40
Normal 52 74.30 54 77.10 Caesarean 15 21.40 15 21.40	Hospital	68	97.10	69	98.60
Caesarean 15 21.40 15 21.40	Type of delivery				
	Normal	52	74.30	54	77.10
Instrumental 3 4.30 1 1.40	Caesarean	15	21.40	15	21.40
	Instrumental	3	4.30	1	1.40

Regarding the ethinicity in the working age group 24 (34.1%) were brahmin, 16 (22.9%) were other caste, followed by chhetri 13 (18.6%), in the nonworking category 21 (30%) were brahmin as well as other caste, followed by 11 (15.7%) were newer and gurung/magar/tamang. Regarding religion, in the wroking women 59 (84.3%) wer Hindu, followed by 8 (11.4%) were buddhist, while in the nonworking women 60 (85.7%) were Hindu, followed by 4 (5.7%) Buddhist and Christian. Regarding education status, all the working women were literate while in the non-working category 67 (95.7%) were literate and rest of them were illiterate. Regarding occupation level, 32 (45.7%) respondents were doing business. Regarding the monthly income, 30 (42.9%) had income NRs. 20000. Regarding the number of children, in working women 34 (48.6%) have one child, 27 (38.60%) have two children while in non-working women 37 (52.9%) have one child. Regarding the ANC checkup, all the working and non-working women check their health during pregnancy. Regarding the number number of times, in working category 41 (58.6%) visited more than four times, in non-working 36 (51.4%) visited more than four times. Regarding place of delivery 2 (2.9%) working and 1 (1.4%) non-working women whad delivery at home while 68 (97.1%) working and 69 (98.6%) non-working women delivered in hospital. Regarding the type of delivery, 52 (74.3%) working and 54 (77.1%) non-working women had normal delivery, 52 (74.3%) working and 54 (77.1%) non-working women had normal delivery, 52 (74.3%) working and 54 (77.1%) non-working women had normal delivery.

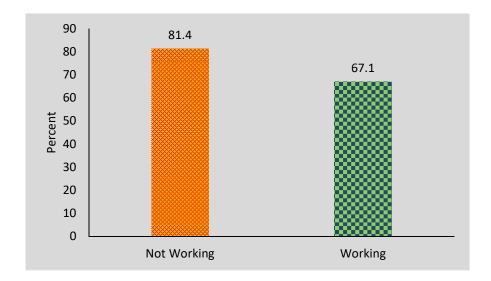


Fig. 1. Percent of exclusive breast feeding among working and non-working mothers, n = 140.

Percent of exclusive breast feeding among working and non-working mothers are shown in Figure 1. In non-working category, the proportion was 81.4% and in working category, the proportion was 67.1%.

Table 2. Factors influencing exclusive breastfeeding among working women, n = 70.

Characteristics	Working women		. Chi-square	n value
	EBF (%)	No EBF (%)	_ Ciii-square	<i>p</i> -value
Age				
<25	19 (40.4)	9 (39.1)	0.11	0.917
≥25	28 (59.6)	14 (60.9)		
Type of family				
Nuclear	27 (57.4)	9 (39.1)		
Joint	20 (42.6)	14 (60.9)	2.01	0.015
Pre-lacteal*				
Yes	7 (14.9)	12 (52.2)	10.853	0.001
No	40 (58.1)	11 (47.82)		
Occupation				
Business	22 (59.4)	10 (43.5)		
Teacher	7 (18.91)	4 (17.4)		
Service	13 (35.13)	9 (39.1)	3.19	0.363
Wage	5 (13.51)	-		
Number of children				
One	27 (57.4)	7 (30.4)		
Two	13 (27.6)	14 (60.9)		
Three	5 (10.7)	2 (8.7)	7.7	0.045
Four	2 (4.3)	-		
Type of delivery				
Normal	36 (78.7)	16 (69.6)		
Operational	10 (21.2)	5 (21.7)	1.65	0.43
Instrumental	1 (2.12)	2 (8.6)		
Religion				
Hindu	39 (83)	20 (87.1)		
Buddhist	6 (12.8)	2 (8.7)	1.009	0.739
Muslim	1 (2.1)	-		
Christian	1 (2.1)	1 (2.1)		
Working hour				
6 hour	16 (34)	10 (43.5)		
7 hour	3 (6.4)	2 (8.7)	6.33	0.034 Contd

8 hour	17 (36.2)	11 (47.8)		
≥9 hour	11 (23.4)	-		
Working distance				
10 to 13 minutes	39 (83)	17 (73.9)		
13 to 15	5 (10.6)	6 (26.1)	3.9	0.139
≥15	3 (6.4)	-		
Mass media**				
Yes	25 (59.5)	15 (71.4)	0.856	0.356
No	17 (40.5)	6 (28.6)		

All *p*-values are compared at 5% level of significance.

Association between exclusive breastfeeding among working women with different characteristics are shown in Table 2. Result shows that type of family, pre-lacteal and number of children, working hour are found to be statistically significant (*p*-value<0.05). Association between exclusive breastfeeding among non-working with different characteristics are shown in Table 3. Result shows that type of family, pre-lacteal, education status and number of children are found to be statistically significant (*p*-value<0.05).

CONCLUSION

Exclusive breastfeeding practices were quite higher among non-working women than working women. Similarly, majority of the participants knew the importance of breastfeeding practices and more than three fifth participants have initiated breastfeeding within one hour. Type of family, number of children and working hour are found to be statistically significant to exclusive breastfeeding practices. So, different concerning authorities should make the provision of child health care center at working place. Likewise, family members should also involve supporting the mother in feeding the baby optimally to improve the breastfeeding practices. Based on the finding of the study, prevalence of exclusive breastfeeding practices among the working women is less than of non-working women, so the concerned authority should formulate the policy directed towards the working women. Different programs should be conducted to aware the family members about the importance/significance of breastfeeding at different levels. Provision of child health care center at working place should be made so that mother can get time to feed their babies during working hour. Facilities at the workplace should provide privacy to the mother and the mother should be given adequate breaks during her work to feed the baby. The finding of this study will help to assess the prevalence and factors influencing exclusive

^{*}Pre-lacteal refers to feeding of infant formula, water or sugar, honey, ghee to the child.

^{**}Mass media indicate FM/TV/Internet which are used for information regarding breastfeeding.

breastfeeding practices among working and non-working women. This work would serve as a reference material for future researchers who intend to carry out researches related to this one in particular.

Table 3. Factors influencing exclusive breastfeeding among not working women, n = 70

Characteristics	Not Working		Chi-square	<i>p</i> -value
	EBF (%)	No EBF (%)	_ Cni-square	p-varue
Age				
<25	30 (52.6)	6 (46.2)	0.178	0.673
≥25	27 (47.4)	7 (53.8)		
Type of family				
Nuclear	28 (49.1)	9 (69.2)	1.71	0.019
Joint	29 (50.9)	4 (30.8)		
Education status				
Literate	55 (96.5)	12 (92.3)	9.3	0.075
Illiterate	2 (3.5)	1 (7.7)		
Pre-lacteal*				
Yes	10 (17.5)	10 (76.9)	18.289	< 0.001
No	47 (82.5)	3 (23.1)		
Religion				
Hindu	49 (86)	11 (84.6)		
Buddhist	3 (5.3)	1 (7.7)	1.31	0.729
Muslim	3 (5.3)	1 (7.7)		
Christian	2 (3.5)	-		
Number of children				
One	30 (52.6)	7 (53.8)		
Two	19 (33.3)	6 (46.2)	2.31	0.031
Three	8 (14)	-		
Type of delivery				
Normal	44 (77.2)	10 (76.9)		
Operation	12 (21.1)	3 (23.1)	0.28	0.883
Instrumental	1 (1.8)	-		

All *p*-values are compared at 5% level of significance.

^{*}Pre-lacteal refers to feeding of infant formula, water or sugar, honey, ghee to the child.

CONFLICT OF INTEREST

The author declared that there is no conflict of interest.

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