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ORIGINAL RESEARCH

HUMAN MILK BANK: THE BREASTFEEDING COUNSELING AND THE DURATION OF EXCLUSIVE BREASTFEEDING

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Abstract

Objective: To identify which sociodemographic factors are associated with early weaning and compare the duration of exclusive breast feeding between mothers which received counseling about maternal feeding and mothers which was not guided for these practices. Methods: A cross-sectional study with 25 mothers that received counseling about the benefits of maternal feeding in the human milk bank and 25 from a university hospital that were not counseled. Data were collected using a structured questionnaire addressing mother-related data, the infant and the breastfeeding in the first semester. Comparison and odds ratio were the statistical analyses adopted. **Results:** There was not a significant difference of the duration of exclusive breast-feeding between the two groups (p = 0,524). Among mothers in the human milk bank group that discontinued early exclusive breast-feeding, fewer children (p=0,034) and a higher frequency of maternal work (p=0,022) were observed. Wile, in the university hospital group low education (p < 0.001) and lower income (p = 0.009) were prevalent. In the totality of the sample, the interruption of exclusive breast-feeding was associated with <1children (OR = 0.21, p = 0.030), the presence of a partner (OR = 0.046, p = 0.001) and the use of bottles or pacifiers (OR = 87.5, p < 0.001). In both groups, the most cited motivation for exclusive breast-feeding discontinuation was the medical assistance. It was observed the absence of a specific standard guideline provided in the Human Milk Bank, and less than the recommended number of consultations in the literature. Conclusions: Socioeconomic factors and inadequate incentives negatively influence the duration of exclusive breast feeding. It was verified the need to provide standardized and more frequent counseling for effective reduction of early weaning.

Key words: breast-feeding, early weaning, milk banks, milk human.

INTRODUCTION

Exclusive breastfeeding (EBF) until the sixth month of life has been the subject of worldwide interest, and the benefits of this practice to mother and child are regularly noted. In addition to being an excellent source of nutrition for the growth and development of children, breast milk is associated with a reduction in various diseases1 such as anemia^{2,3} gastrointestinal infections, atopy and asthma⁴. It is now known that, due to the presence of numerous protective factors in its composition, the use of breast milk is the most impactful strategy in reducing mortality in children under five years⁵. EBF is thus recommended until the sixth month of life and breast feeding with complementary food up to 2 years of age or older.⁵

For decades, breastfeeding was a second priority for the health of children, and the use of artificial feeding was increased, particularly through the support of health professionals.⁶ A discreet, but progressive reversal of this situation has now been observed through national studies7, however, the latest survey conducted in this area demonstrates

that the breastfeeding practices in Brazil are still far from the ideal level.8

Faced with this finding, several initiatives have emerged with the aim of increasing breastfeeding rates. The Human Milk Bank (HMB) is one of these initiatives, and is defined as a specialised service for the promotion of breastfeeding, and its protection and support. Activities include the distribution of human milk for infants unable to receive it from their mothers, as well as lectures, demonstrations and trainings.9

The identification of guidelines has been shown to be a favourable factor for successful breastfeeding. Studies suggest that the promotion of guidance on the benefits and techniques of breastfeeding is related to EBF being used for longer periods^{10,11.} The Ministry of Health provides some essential guidance for mothers after birth. This includes orientation on normal behaviour in babies, the number of feedings needed, the best duration of breastfeeding, the appearance of milk, the correct way to handle the breast when feeding and the position of both mother and infant⁵. Several external

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factors are related to this practice, however, including the number of children, age, education, income, and marital status, compared to the use of artificial bottle feeding⁸.

This study was conducted to identify sociodemographic factors associated with early weaning and to compare exclusive breastfeeding duration between mothers who have received human milk bank guidance on the practice and those who have not.

METHODS

A cross-sectional study was conducted with mothers of infants 7-12 months of age. During the months of June and July 2012 data was collected from 276 medical records, 85 mothers enrolled in the HMB and 191 mothers enrolled at the University Hospital (UH) in São Paulo, Brazil. Of these, 25 mothers from each institution met the requirements for participation in the study and also agreed to participate. Mothers who had their children between July and December 2011 at UH were included, as were mothers who attended the HMB between July and December 2011, the latter of whom received the latest guidance in the first month of breastfeeding. The exclusion criteria were mothers whom it was not possible to obtain contact, mothers whose interviews did not continue to the end of the period, and mothers whose infants were premature, or who had respiratory infections, severe diarrhoea, infectious diseases, an allergy to milk, problems with their metabolism, or required hospitalisation in the first six months of life. Mothers from the UH who had received guidance on breastfeeding were also excluded.

All participants were asked to participate in the study via telephone, on July 2012. After the recorded participation acceptance, a pre-prepared questionnaire, based on the model that was applied in the Second Breastfeeding Prevalence Study in the Brazilian Capital and Federal District⁸, and the model by Calegari¹², which addresses socioeconomic data about the mother, infant, EBF time, reason for suspension of EBF, the use of artificial nipples, and breast problems during the breastfeeding period. The city HMB, where the survey was conducted, did not have a standard protocol by which guidelines were provided or about the number of consultations to be held. Guidelines were given at the time of consultation, when they were requested, or were directed to the specific complaints of mothers. To better understand the breadth of service, mothers using this institution were also asked about the orientation received and the number of queries.

Statistical analysis was performed using the Statistical Package for the Social Sciences® (SPSS) version 16.0 (SPSS INCORPORATION, 2000). The significance level considered was 5%. Among the analyses, compared (Test $-X^2$) factors associated with breastfeeding among individuals of HMB and UH who performed EBF and between individuals of HMB and UH than held EBF. The odds ratio was applied to the total population of the study in order

to identify the factors associated with increased risk of EBF interruption. The sample size was determined according to Hulley et al.¹³. The statistical power established in the calculation was 80% and the outcome variable was breastfeeding duration. To a standardised magnitude of effect of 0.8 (E/S) of 0.05 á and β = 0.20% a total of 21 individuals was required in each group, to verify an increase of at least one month in breastfeeding duration (E = 0.8; S = 0.8). To minimise possible losses in the study 20% was added to the sample size, totalling n = 25 per group.

This study was approved by the Research Ethics Committee of the University of Taubaté, Sao Paulo, Brazil (CEP/UNITAU No. 094/12).

RESULTS

The mean age of the respondents was 27.7 \pm 6.7 years, and they had a median of 1 for the number of children. Most of the interviewees had completed high school or higher education (60%) and had a monthly income 1-3 times the minimum wage (82%). 54% of mothers were married and 36% reported a stable union. During the first six months postpartum, 16% of mothers had paid work outside the home (Table 1). Reasons the 25 mothers from the HMB gave for seeking help were problems in the breasts such as fissures, engorgement or mastitis (32%), breastfeeding difficulty due to incorrect handling, worries about not having enough milk (60%) and recommendation by their own mother (8%).

Initially, it is important to note the details of the guidance provided to the HMB group, as this divides the mothers into subgroups according to the type of guidance received, which can be correlated with the use of EBF until the sixth month of their child's life. The guidelines described by the interviewees in the HMB group randomly included information such as "benefits of breast milk", "care of the breast" and "breastfeeding techniques." There was a higher percentage of guidance about the "benefits of breast milk" among mothers who used EBF until the sixth month (60%). In addition to quidance on the benefits of EBF, the mothers who used EBF reported guidelines on breast care (60%) and feeding techniques (60%). Of the mothers who did not use EBF 25% reported having information about its benefits, 45% about breast care and 75% about techniques. Despite these results, there was no significant difference between EBF and nonexclusive breastfeeding groups (NEBF) in those who received guidelines (p = 0.286).

An average of 2.9 ± 1.9 visits to the institution was noted among those interviewed in HMB. Mothers belonging to the UH group stayed in the hospital only for delivery and subsequently attended only on routine paediatric visits.

The prevalence of EBF until the sixth month of life in the total sample was 22%, with a median of 2.75 months. There was no significant difference when comparing the duration of exclusive breastfeeding between the HMB group and the UH group (p = 0.524) (Table 2). **Table 1:** Socio-demographic characterization of mothers, according to home institution, Taubaté, São

 Paulo, Brazil

Variables	Institution HMB TUH m <u>+</u> dp m <u>+</u> dp		Total m <u>+</u> dp
Age (years)	29.5 ± 4.9	26 <u>+</u> 7.9	27.7 ± 6.7
Schooling	n (%)	n (%)	n (%)
Illiterate Incomplete Elementary School Complete Elementary School Incomplete High School Complete High School Incomplete University Complete University	0 (0) 0 (0) 2 (8) 6 (24) 12 (48) 5 (20)	$\begin{array}{c} 0 \ (0) \\ 10 \ (40) \\ 2 \ (8) \\ 6 \ (24) \\ 7 \ (28) \\ 0 \ (0) \\ 0 \ (0) \end{array}$	$\begin{array}{c} 0 \ (0) \\ 10 \ (20) \\ 2 \ (4) \\ 8 \ (16) \\ 13 \ (26) \\ 12 \ (24) \\ 5 \ (10) \end{array}$
Income (minimum salary) 1 to 3 4 to 10 Above 10	16 (64) 9 (36) 0 (0)	25 (100) 0 (0) 0 (0)	41 (82) 9 (18) 0 (0)
Maternal work Yes No	7 (28) 18 (72)	1 (4) 24 (96)	8 (16) 42 (84)
Marital status Single Married Stable Union Separated	2 (8) 19 (76) 4 (16) 0 (0)	2 (8) 8 (32) 14 (56) 1 (4)	4 (8) 27 (54) 18 (36) 1 (2)

HMB: human milk bank; TUH: University Hospital of Taubaté, São Paulo, Brazil; m = average; SD = standard deviation; n: number; %: percentage.

Table 2: Median and prevalence of exclusive breastfeeding (EBF) until the sixth month of life between mothers, according to home institution, Taubaté, São Paulo, Brazil

Variable	Institution HMB	UH	р	TOTAL	
EBF until the 6th month	n (%)	n (%)	0.733	n (%)	
Yes	5 (20)	6 (24)		11 (22)	
No	20 (80)	19 (76)		39 (78)	
The median duration of AME (months)	НМВ	UH	p	TOTAL	
	З	2	0.524	2.75	

Analysis of the differences between the groups was performed by test (c)², with p < 0.05. HMB = human milk bank; UH = University Hospital; EBF = exclusive breastfeeding; n = number; % = percentage

In the comparative analysis of mothers using HMB and UH, separately for those breastfeeding exclusively up to six months and those who did not, there were fewer children (p = 0.034) and a higher maternal employment rate (p = 0.022) in the HMB group who discontinued EBF before the six months compared to the same UH group. Being less educated (p < 0.001) and having a lower income (p = 0.009) were variables that prevailed among the UH group who discontinued EBF before six months. Even the UH group that continued EBF for six months had a lower income than the HMB group (Table 3).

The main factors associated with EBF in the total study population can be seen in Table 4.

EBF interruption before six months and having no other children were associated (OR = 0.21; CI 95% = 0.05-0.92; p = 0.030), living withtheir partner (OR = 0.046; CI 95% = 0.004-0.48; p = 0.001) and the use of artificial nipples (OR = 87.5, 95% CI 95% = 8.76 - 873.83, P < 0.001). When the associations were tested separately for the HMB and UH groups (data not available in the table), there was only an association in the UH group with the use of nozzles and exclusive breastfeeding for 6 months (OR = 36.0, CI 95% = 2.59 - 501.27, p = 0.001).

There was no difference between the groups with respect to the reasons cited for EBF interruption. Among the reasons given for stopping, medical reasons were the most cited among both group of mothers HU (52.6%) and HMB (75%) mothers (Figure 1).

There was a low EBF uptake in the first six months of infant life, regardless of whether the participants had received guidelines about the practice. Caldeira et al.¹⁴ found a low percentage of EBF in the first half of the life of infants from **Table 3:** Comparison of demographic parameters according to the mother's type of breastfeeding and home institution, Taubaté, São Paulo, Brazil

		E	BF	Р	NI	EBF	р
Variables	Categories	HMB n (%)	UH n (%)		HMB n (%)	UH n (%)	
Maternal Age	< 30 years <u>></u> 30 years	1 (20) 4 (80)	4 (67) 2 (33)	0.122	10 (50) 10 (50)	13 (68) 6 (32)	0.242
Number of children	> 1 <u><</u> 1	3 (60) 2 (40)	5 (83) 1 (17)	0.387	4 (20) 16 (80)	10 (53) 9 (47)	* 0.034
Work	Yes No	0 (0) 5 (100)	0 (0) 6 (100)	-	7 (35) 13 (65)	1 (5) 18 (95)	0.022 *
Schooling	Full ES HS and/or higher	0 (0) 5 (100)	3 (50) 3 (50)	0.067	0 (0) 20 (100)	9 (47) 10 (53)	< 0.001 *
Family income	1 to 3 MS 4 to 10 MS	2 (40) 3 (60)	6 (100) 0 (0)	0.026 *	14 (70) 6 (30)	19 (100) 0 (0)	* 0.009
Marital status (live with spouse)	No Yes	2 (40) 3 (60)	2 (33) 4 (67)	0.819	0 (0) 20 (100)	1 (5) 18 (95)	0.299
Use of artificial nipples	Yes No	1 (20) 4 (80)	0 (0) 6 (100)	0.251	18 (90) 2 (10)	17 (89) 2 (11)	0.957
Breast problems	Yes No	2 (40) 3 (60)	2 (33) 4 (67)	0.819	9 (45) 11 (55)	11 (58) 8 (42)	0.421
Birth weight	<u><</u> 3000 g > 3000 g	1 (20) 4 (80)	2 (33) 4 (67)	0.621	7 (35) 13 (65)	3 (16) 16 (84)	0.170

Analysis of the differences between the groups was performed by test $(\chi)^2$, with p < 0.05 significance. UH = University Hospital; HMB = human milk bank; EBF = exclusive breastfeeding; NEBF = non-exclusive breastfeeding; % = percentage; ES = elementary School; HS = high school; MW = minimum salary.

Table	4: Factors associated with	the interruption of	f exclusive bre	eastfeeding am	ong mothers,	Taubaté,	São
Paulo,	Brazil						

Variables	Categories	n (%)	EBF up to 6 months n (%)	Or	CI 95%	р
Maternal Age	< 30 years <u>></u> 30 years	26 (51) 22 (43)	5 (19) 6 (27)	1.725	0.45-6.64	0.425
Number of children	> 1 < 1	22 (43) 28 (55)	8 (36) 3 (11)	0.21	0.05-0.92	0.030 *
Work	Yes No	8 (16) 42 (82)	0 (0) 11 (26)	-	-	-
Schooling	Full ES HS and/or higher	12 (23) 38 (75)	3 (25) 8 (21)	0.8	0.18-3.66	0.774
Family income	1 to 3 MS 4 to 10 MS	41 (80) 9 (18)	8 (19) 3 (33)	2.063	0.42-10.08	0.365
Marital status (live with spouse)	No Yes	5 (10) 45 (88)	4 (80) 7 (15)	0.046	0.004-0.48	0.001 *
Use of artificial nipples	Yes No	36 (71) 14 (27)	1 (3) 10 (71)	87.5	8.76-873.83	< 0.001 *
Breast problems	Yes No	25 (49) 25 (49)	4 (16) 7 (28)	1.842	0.46 - 7.32	0.382
Birth weight	<u>></u> 3000 g > 3000 g	12 (23) 38 (75)	2 (17) 9 (24)	0.920	0.20-4.16	0.913
Source institution	HMB UH	25 (49) 25 (49)	5 (20) 6 (24)	0.792	0.27-3.03	0.733

Or: Odds ratio with significance p < 0.05 index. n = 50. UH = University Hospital; HMB = human milk bank; CI = confidence interval; n = sample number; % = percentage; ES = elementary school; HS = high school; MS = minimum salary.



Minas Gerais, Brazil (32.11%). In this sense, Ferreira et al.15 noted one of the determinants of early weaning to be the lack of guidance for nursing mo-thers, however, some authors believe that information about breastfeeding practices alone is not enough to motivate women to breast-feed. Santos Andrade and Silva¹⁶ suggest that breastfeeding is not effective through guidance alone, making it necessary to train and educate mothers, so that they have full confidence in being able to breastfeed their infants.

Arguments like this lead to reflect that the interruption of exclusive breastfeeding before the infant's sixth month of life is actually much more complex than supposed¹⁷. Several findings in the literature have pointed to socioeconomic factors as having an effect on the early weaning process, factors that can affect the act of breastfeeding both oriented and non-oriented mothers. The present study noted a higher frequency of work outside home and fewer children among mothers in the HMB group who discontinued EBF before six months. When analysing the overall study population, the number of other children over a year old in a family was shown to reduce the risk of EBF interruption, as consistent with the results of Damião17 and Oliveira et al.¹⁸ These authors found, respectively, a rate of EBF 50% lower in working mothers and a higher prevalence of EBF over four months (69.8%) among mothers who had breastfed previously.

On the other hand, factors such as low education and low income dominated among mothers of the UH group who discontinued EBF early. In the overall study population, not living with a partner reduced the risk of EBF interruption, showing that the absence of a partner had a protective effect on EBF. The use of artificial nipples increased in the risk 87.5 times. The association between early weaning and such factors is also reported in other studies, always with an emphasis on the use of artificial nipples^{19,20,21}. The only contrary finding to the literature concerns the relationship between presence of a partner and early weaning. In general in the literature, the presence of a companion is related to a longer duration of breastfeeding¹⁸, although the importance of spousal support is questioned, and

there is also influence from education and maternal age in those results²¹.

It appears, therefore, that the practice of EBF until the sixth month of an infant's is not only motivated by maternal desire, environment can exert a strong influence on the decision to breastfeed. The current study found medical advice as the cause of early discontinuation of exclusive breastfeeding. When researching the prevalence of EBF in a basic health unit at Porto Alegre, Rio Grande do Sul, Brazil, Calegari¹² found the main grounds for early weaning to be medical advice (24.6%). Oliveira et al.18 noted the importance of knowledge about breastfeeding in early weaning and emphasised the responsibility of health professionals to support women during breastfeeding. An important point to note is the kind of guidance received by the mothers in the HMB group, as there was no specific pattern to issues addressed during consultations, or the number of visits to the institution. With the report of interviewees who have had passed by medical care in the institution, it is possible to find, albeit with no significant difference, a smaller percentage in breastfeeding's benefits orientation in mothers who stopped EBF in the first semester. Almeida et al.22 point out that there are many factors that interfere with the practice of EBF, and lack of knowledge is them.

When compared to data from the literature, the average number of visits made by mothers of this study to HMB was below the number believed to increase the duration of EB, as described by some authors²³⁻²⁶. Morrow et al.²³ compared a control group to two groups who attended 3 or 6 visits in order to provide information about breastfeeding, and found a difference of 17 percentage points in the frequency of EBF in favour of the group attending more visits. Of all children evaluated in the study by Barros²⁴, two-thirds made three or more visits to lactation centres, and these showed greater adherence to EBF for six months compared to those with fewer queries. Coutinho et al.,²⁵ compared a group of mothers receiving maternity guidance to mothers who additionally were visited 10 times after birth, found that the group that received home visits had a higher EBF proportion. A recent meta-analysis

analysed the effect of postnatal counselling on the duration of EBF in low and average-income²⁶. The authors found that the studies present numerous experimental differences, but that counselling determined a relative risk of 0.46 for the interruption of exclusive breastfeeding compared to the control group. The authors emphasise the need for more studies to compare the effectiveness of interventions in order to identify the ideal time and spacing of visits to child health programmes²⁶. Frequent and continuous contact with breastfeeding advocacy groups thus proves helpful in combating early weaning.

Although 92% of mothers who sought the BLH presented problems associated with breastfeeding, which could be a limitation of the study, it is important to note that the observed breast problems were similar in both groups; 40% of mothers at BLH (n = 2) and 33.3% of mothers at HU (n = 2).

Therefore, so not only the guidance but also other factors identified in this study are associated with breastfeeding, and these factors may also influence the search guidance about breastfeeding.

The results have identified socioeconomic factors inappropriate incentives such as the introduction of new foods before the sixth month of

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an infant's life, and the use of artificial nipples can exert negative influences on the duration of exclusive breastfeeding, often ignoring their knowledge about breastfeeding in HMB. These findings highlight the importance of this study, which can serve as a resource for future studies aiming to achieve continuous statistics about the effectiveness of the promotion, protection and support of breastfeeding. The lack of standardisation in the quidelines provided by HMB is a limiting factor, however, which may have resulted in the low prevalence of AME in this group. We must also consider the study design (cross-sectional), which is subject to the recall bias of the participants and the inability to determine cause and effect. These results can be generalised only to the population of the city of Taubaté, where the study was conducted.

CONCLUSION

Socioeconomic factors and inadequate incentives have a negative influence on the duration of exclusive breastfeeding. A need to provide more frequent standardised counselling for the effective reduction of early weaning was identified.

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Resumo

Objetivo: Identificar quais fatores sociodemográficos estão associados ao desmame precoce e comparar a duração do aleitamento materno exclusivo entre mães que receberam orientações sobre aleitamento materno e mães que não receberam. Método: Estudo transversal realizado com 25 mães orientadas sobre aleitamento materno no Banco de Leite Humano e 25 não orientadas, provenientes de um Hospital Universitário. Os dados foram coletados por meio de questionário estruturado abordando dados relacionados à mãe, ao lactente e ao aleitamento materno no primeiro semestre. Comparação e razão de chances foram as análises estatísticas adotadas. Resultados: Não houve diferença significativa na duração do aleitamento materno exclusivo entre os grupos (p = 0,524). Entre as mães que interromperam precocemente o aleitamento materno exclusivo, menor número de filhos (p = 0,034) e maior frequência de trabalho materno (p = 0,022) foram observados. Já, no segundo grupo a baixa escolaridade (p < 0,001) e a menor renda (p = 0,009) foram mais frequentes. Na população total, associaram-se à interrupção do aleitamento materno exclusivo o número de filhos inferior a 1 (OR = 0,21; p = 0,030), presença de cônjuge (OR = 0,046; p = 0,001) e a utilização de bicos artificiais (OR = 87,5; p < 0,001). O motivo mais citado para tal interrupção foi a orientação do médico em ambos os grupos. Observou-se inexistência de um padrão específico de orientações prestadas no Banco de Leite Humano, além de uma média de consultas inferior ao recomendado na literatura. Conclusões: Fatores socioeconômicos e incentivo inadeguado exercem influência negativa na duração do aleitamento materno exclusivo. Observa-se a necessidade de fornecer orientações padronizadas e mais frequentes às lactantes, para redução eficaz do desmame precoce.

Palavras-chave: aleitamento materno, desmame precoce, bancos de leite; leite humano.