

Influence of Expert Counselling and Social Media Support on Exclusive Breastfeeding among Generations in an Emergent Country

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Abstract

Purpose: To describe the prevalence and factors associated with exclusive breastfeeding at six months, especially those associated with age related generations.

Methods: Data were analyzed from 1599 mothers of three different generations (X, Y and Z), who responded a self-administered questionnaire when breastfeeding stopped. Multiple logistic regression was used to evaluate the association between reasons for discontinuing and the probability of mothers meeting six breastfeeding duration.

Results: The percentage of exclusive breastfeeding at six months of mothers under 18 years old was 37.7% compared to millenians 59.9% and X generation mothers 76.6% ($p < 0.05$). In the multivariate analysis we only found statistical association with profesional breastfeeding counseling (OR: 1.82, 95% CI: 1.33 - 2.43, $p = 0.003$) and belong to a social media supportive group (OR: 1.61, 95% CI: 1.01 - 2.55, $p = 0.042$).

Conclusion: Education from professional providers and social media support may be necessary to address troubleshooting breastfeeding issues without regard to age or generation.

Keywords: Breastfeeding; Expert counselling; Social media support; Lactation counseling; Age related generations

Introduction

The benefits of breastfeeding for both infant and mother are well documented. It has been demonstrated to reduce the frequency of respiratory tract infections [1], asthma [2], diarrhea [3], gastrointestinal disease [4], obesity, type 1, 2 and gestational diabetes [5,6]. It has also been observed reduction in frequency of inflammatory bowel disease, celiac disease, and provides beneficial effects on neurodevelopment of children as well as a reductive effect on blood lipids levels in adulthood [7]. Deaths of an estimated 820,000 children under the age of five could be prevented globally every year with increased breastfeeding [8].

Breastfeeding has been shown to promotes bonding and reduce crying [9], and improved performance in intelligence tests [10], in part mediated through subcortical gray volumen [11]. Benefits for the mother include reduced risk of breast and ovarian cancer, lower risk of mothers type 2 diabetes, delays the return of menstruation and fertility and lower risk of postpartum depression [12]. Current recommendations state that: "for the majority of infants, the introduction of solid foods should be delayed until 6 months of age, and up until this age exclusive human milk offers optimal nutrition" [13], in a dose-response relationship [14,15].

Many factors are associated with the likelihood of mothers' unsuccessfully initiating and discontinuing breastfeeding, including low level of education, low socio-economic status, mother's young age, be primiparous, sore nipples, perception of "not have enough milk", Illness or need to take medicine, breast infected or abscessed, a Physician concerned about infant weight gain, unhelpful nurses or hospital information, premature start of complementary feeding, having two or more brothers, be single, having mutual decision of parents on exclusive breast feeding, fathers age, mothers occupation, maternal affection conditions (maternal motivation), depression, early return to work caesarean section and low milk supply, delayed onset of lactogenesis, high body mass index, women whos smoked during pregnancy, feelings

of maternal conflict, guilt and finally having no perceived support system or advice from peer group or voluntary organizations [16-23].

In spite of passionate promotion of the benefits, irrefutable bench research, revealing population-based/epidemiologic analyses, and impressive financial modeling, breastfeeding initiation, duration and exclusivity rates are poor, with a frequency of abandonment after 6 months of 65% to 86% [24,25]. According to the data available from the CDC approximately half of U.S. babies born were receiving human milk at 6 months and only one third were exclusively breastfed. Is it a lost cause? Are we trying too hard? Or are we just not trying the right way?

Generation Y, America's largest generation, born from 1981 to 1999 accounted for 82% of U.S. births in 2016, has distinctive characteristics: they're always online and "connected". They prefer to communicate more quickly and effectively via email, social networks or text messaging as opposed to traditional means of communication.

"Their most trusted sources, and resources, are their friends, not just as we traditionally define them, but also as they have redefined them: as the people and organizations within their online, social media networks" [26].

Generation Y parents, the ones we mostly want to hear our message

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about the importance of breastfeeding – since Z generation parents are still so little - need to be informed and maybe the one of the most important ways to do that is through social media. Nevertheless, although some researchers have evaluated the impact of social media assistance (SMS) for other diseases [27], very little have evaluated the effects of social media in providing information and support to breastfeeding mothers [28,29]. The purpose of our study was to explore if there is a current change in frequency of exclusive breastfeeding and the reasons why women stop and their association with age-generation.

Methods

Design

Prospective cross-sectional study.

Setting

San Luis Potosí, an urban city of México, June 2017-May 2018.

Sample

Target population were mothers whose children were three years old or less, that had currently suspended the breastfeeding, and the simple population were those attending private and institutional medicine included if they had single infant, any route, any age and with normal intellectual abilities. Women were excluded if they had any condition that prevented them from answering the survey questions or if they had any contraindications to breastfeeding. We had a non-probabilistic, intentional sample. The size of the sample was calculated based on the number of variables included in the multivariate analysis. The calculated minimum sample size was 1,600 (16 degrees of freedom) [30].

Data collection

A self-administered questionnaire was given to the mothers for completion, on the main factors that have been demonstrated to determine the suspension of breastfeeding including the use of social networks or other communication technologies; in addition, it was questioned about those factors that the consideration of the participants determined their progression or suspension of breastfeeding. The socio-economic status was determined based on the level of studies, place of origin, site of delivery and occupation of the mother [31].

They were informed about the aim of the research and required to sign voluntary an informed consent agreement also It was assured their right to refuse to participate, according to the ethics committee, Hospital Central Dr. Inacio Morones Prieto, San Luis Potosí, and Helsinki declaration 2017.

Reliability was assessed by test-retest in 50 volunteers. They were assessed and retest 2 weeks later. They get the same category scores test-retest 91% to 93% ($p=0.01$) of the time. The weighted kappa was 0.81-0.87 ($p=0.001$).

Data analysis

Data were analyzed using STATA 13.0. statistical software package. Student t test or Mann Whitney U test and Chi square test analysis was used to determine the association between exclusive lactancy at 6 months and the 14 variables shown in Table 1. Then the significantly associated variables ($p<0.05$, two tailed) were into the multivariate analysis. Multiple logistic regression was used to screen for independent variables potentially associated with exclusive breastfeeding at least 6 months of infant life, while adjusting for the other confounders.

Results

All 1,599 women gave birth to a live infant between may 1, 2015 and January 31, 2018, with age between 16 and 45 years: 53 mothers 3.3 %, under 18 years (Z generation); 269 (16.8 %) over 37 years, X generation and 1277 (79.8 %) millenian generation. One fifth of women were single mothers and 90.9% came from urban enviroment.

The average duration of exclusive lactancy was 7.47 months (0 to 30 m, 95% CI=1-18 months); nevertheless in the group of women under the age of 18 the percentage of exclusive breastfeeding at six months was 37.7% compared to millenians and X generation mothers (58.96% and 71%, $p<0.05$).

The majority of the mothers' educational level was up to college, followed by high school 25.6% and less than 24% only elementary or middle school. Almost half of the mothers had 1 or 2 children. Their usual occupation were home duties 25%, study 22% and work 53%. The delivery was attended predominantly in a private hospital accordng with the socioeconomic status of the women included.

Mothers nursed their neonates during the first 24 hours after birth in 68.4% of the cases. The weaning process begins at about 6 months (95% IC: 4-10 m). Only one third of the women belong to a social media supportive group in platforms such as Facebook (99%).

Lactancy guidance support was offered in 1,258 women: 64% by a nurse or a physician and 29.8% by a trained person, face to face, tailored to her needs and delivered through the antenatal and postnatal period. The remaining percentage by a friend or a family member.

The most frequent reasons reported for discontinuation of breastfeeding in the first month were “sore nipples” (26.4%) and “not enough mother´s milk” (25.3%); From one to six months: “not enough mother´s milk” (21.5%) and “unable to find child care facilities at or near the school or workplace” (15%); and those that breastfeeding lasted more than six months: “planned to stop breast feeding at this time” (respectful weaning) 29.5% and “medical advice“ 11.6%.

Among those included in this study, we analyzed the reasons mothers stopped breastfeeding within the first month postpartum, one to six months, and breastfed for at least six months (Table 1). Almost all of the maternal and infant characteristics included in the analysis were associated with breastfeeding duration. Women under 18 years were less likely to stop breastfeeding in the first six months of the infant life (62%), than millenial women (34%) and older than 37 years old (28%).

We found no significantly difference in the frequency of exclusive breastfeeding at six months according to the onset of lactation or weaning; however, women who fed their babies for 6 months or more had 20% more days of maternity leave lenght to those who fed less than 6 months ($p=0.01$).

Table 2 shows the sociodemographic variables significantly associated to different generation groups (millenial, Z and X generations). Main differences are shown related to age, and include parity, marital status, vaginal or abdominal delivery and educational stage. However, assessment by a lactancy expert was offered thrice as frequently to women from generations X and Y (24% each one), when compared to those from generation Z (8%, $p=0.001$). In contrast, in 73.5% of the women from generation Z the assessment was provided by a physician or a nurse.

	<1 month n (%)	1-6 month n (%)	>6 months n (%)	p value
Maternal age (years)				
<18 (n=53)	0 (0)	33 (62.2)	20 (37.3)	0.001
18-37 (n=1277)	87 (6.81)	439 (34.7)	753 (58.96)	
>37 (n=269)	0 (0)	78 (28.99)	191 (71.01)	
Parity				
One (n=841)	76 (9.04)	283 (33.65)	482 (57.31)	0.001
two (n=523)	11 (2.10)	184 (35.18)	328 (67.72)	
three or more (n=235)	0 (0)	81(34.40)	154 (65.60)	
Marital status				
Single (n=276)	14 (5.07)	125 (45.29)	137 (49.64)	0.001
Married (n=1323)	73 (5.52)	423(31.97)	827(62.51)	
Mode of delivery				
Vaginal (n=789)	45 (5.70)	257 (32.57)	487 (61.73)	0.36
cesarean (n=810)	42 (5.19)	291 (35.92)	477 (58.88)	
Infant sex				
Female (n=780)	49 (6.28)	254 (32.56)	477 (61.15)	0.17
Male (n=819)	38 (4.64)	294 (35.89)	487 (59.46)	
Residency				
Urban (n= 1479)	82 (5.54)	515 (34.82)	882 (59.63)	0.374
Rural (n=120)	5 (4.16)	33 (27.50)	82 (68.34)	
Socioeconomic status				
Low (n=594)	61 (10.26)	195 (32.83)	338(56.91)	0.001
medium (n=685)	14 (2.04)	190 (27.73)	481(70.23)	
medium-high (n=200)	0 (0)	97 (48.50)	103 (51.50)	
High (n=120)	12 (10)	66 (55)	42 (35)	
Maternal education level				
Elementary (n=72)	0 (0)	24 (33.33)	48 (66.67)	0.001
Middle school (n=302)	20 (6.62)	132 (43.71)	150 (49.67)	
High school (n=409)	32(7.82)	130 (31.78)	247(60.39)	
College (n=779)	35(4.49)	242 (31.19)	502 (64.31)	
Postgrade (n=37)	0 (0)	20 (54.05)	17 (45.95)	
Maternal occupation				
Home duties (n=392)	8 (2.04))	131 (33.42)	253 (64.54)	0.001
Work (n=848)	44 (5.19)	304 (35.85)	500 (58.96)	
Student (n=359)	35 (9.75)	113 (31.48)	211 (58.77)	
Lactancy education				
No (n=341)	22 (6.45)	122 (35.78)	197 (57.77)	0.0001
Physician/Nurse (n=805)	59 (7.32)	332 (41.24)	414 (51.42)	
Friend/familiar (n=77)	0 (0)	27 (35.06)	50 (64.93)	
L. consultant (n=376)	6 (1.59)	67 (17.81)	303 (80.58)	
Support social media group				
No (n=1,012)	77 (7.61)	407(40.22)	528 (52.77)	0.001
Yes (n=587)	10 (1.70)	141(24.02)	436 (74.28)	
TOTAL	87	548	964	

Table 1: Duration of any breastfeeding according to maternal and infant characteristics (N=1,599).

Additionally, social media support was provided in 5.66% of women from generation Z, 32.18% from generation Y, and 64.31% from generation X, which was associated with exclusive breastfeeding at 6 months or older.

Finally, we observed that the main cause of exclusive breastfeeding interruption in generation-Z women was insufficient supply (24.53%), followed by “new pregnancy” (22.6%) and impossibility to breastfeed during working hours (15.09%), in contrast with generations Y and Z, where the most frequent reason was «respectful weaning»: 16.7% and 37.8% respectively, that correlates with breastfeeding duration.

The second most frequent cause for generation-Y was “impossibility to breastfeed during working hours” and in generation-X it was “insufficient supply”. We found no significantly difference in the frequency of exclusive breastfeeding at six months according to the onset of lactation or weaning.

In the multivariate logistic regression analysis we only found statistical association between breastfeeding up to six months and breastfeeding support (OR: 1.82, 95% CI: 1.33 - 2.43, p=0.003) and belong to a social media supportive group (OR: 1.61, 95% CI: 1.01 - 2.55, p=0.042), p<0.001, model R²= 63.2.

	Z Generation (<18 y) n (%)	Y Generation (18-37 y) n (%)	X Generation (> 37 y) n (%)	p value
Parity				
One (n=841)	50 (5.94)	690 (82.04)	101 (12.02)	0.001
two (n=523)	3 (0.58)	421 (80.49)	99 (18.93)	
three or more (n=235)	0 (0)	166 (70.63)	69 (29.37)	
Marital status				
Single (n=276)	27 (9.78)	231(83.70)	18 (6.52)	0.001
Married (n=1323)	26 (1.97)	1046 (79.06)	251 (18.97)	
Mode of delivery				
Vaginal delivery (n=789)	46 (5.83)	568 (71.99)	175 (22.18)	0.001
Cesarean (n=810)	7 (0.86)	709 (87.54)	94 (11.60)	
Maternal education level				
Elementary school (n=72)	6 (0)	33 (33.33)	33 (66.67)	0.001
Middle school (n=302)	6 (6.62)	281 (43.71)	15 (49.67)	
High school (n=409)	41(10.03)	368(89.97)	0 (0)	
College (n=779)	0 (0)	558(71.63)	221 (28.37)	
Postgrade (n=37)	0 (0)	37 (100)	0 (0)	
Maternal occupation				
Home duties (n=392)	36 (9.18)	215 (31.48)	141 (58.77)	0.001
Work (n=848)	14 (1.65)	762 (81.42)	72 (16.94)	
Student (n=359)	3 (0.84)	300 (83.57)	56 (15.60)	
Lactancy education				
No (n=341)	11 (3.23)	211 (61.88)	119 (34.90)	0.001
Physician/Nurse (n=805)	39 (4.84)	717 (89.06)	49 (6.08)	
Friend or family (n=77)	0 (0)	42 (54.54)	35 (45.45)	
L. consultant (n=376)	3 (1.59)	307 (81.6)	66 (17.55)	
Support social media group				
No (n=1,012)	50 (4.94)	796 (85.57)	166 (9.49)	0.001
Yes (n=587)	3 (0.51)	141481 (81.94)	103 (17.54)	
TOTAL	53	1277	269	

Table 2: Sociodemographic variables of lactating women categorized by age generation (N=1,599).

Discussion

The purpose of our study was to assess actual factors associated with discontinuation of breastfeeding at 6 months of infant's life. Knowing these factors will allow health-care providers to identify early barriers to help mothers breastfeed successfully.

At 6 months after birth, we had a high frequency of breastfeeding (60 percent), similar to what was reported in Japan and Taiwan [32]. Like other studies, significant associations were found [5,11,18], specially those related with women's age or generation, like parity, socio-economic status, education level, occupation or married status; however other influencing factors must be considered, since we found no difference in breastfeeding duration between women of X generation and Y, as was to be expected.

The multivariate analyses of our study illustrate that assessment by a trained lactation consultant and/or social media support have the stronger effects on lactation time, not associated with age or generation; In fact, older women unexpectedly had similar frequency of belonging to an online support group (about 40%). Maybe the "ageless" generation.

Regardless of the factors associated frequently with early interruption of breastfeeding the solution is maybe more and better education and support. Mothers need to be aware of the fact that breastfeeding can be a challenge, that takes time and the problems can be frequently but are manageable. Breastfeeding education [33,34]

must be individualized in such a way as to ensure that leading reasons for suspension of breastfeeding (breast problems, perceived insufficient milk or other activities), can be avoided.

In fact, breastfeeding cessation even before hospital discharge has been associated to ineffective support [35,36], and single women are less likely to continue breastfeeding than married women and women with a partner, as the presence of a support environment, is one of the most influencing factors for women choosing to initiate and to continue breastfeeding [37,38].

Women who currently do not have adequate support and/or information, report seeking support and assistance from their peers. This kind of support is not a new concept in breastfeeding assistance. Many women reported heavy reliance on peer support via social media networks - predominantly Facebook. The most real advantage is real-time help and reassurance. Multiple mothers described their experience attempting to feed a restless and irritability infant in the middle of the night. A Facebook or twitter post to a breastfeeding support page generally garnered immediate responses from other mothers who would offer advice or compassion [39,40].

In accordance with the data, we emphasized the value of "La Leche League" (LLL) face to face meetings, particularly the opportunity they have created to listening the experience of mothers who had overcome difficulties. In a recent research, duration of breastfeeding were improved by implementing routine lactation consultation into the first postpartum visit [41].

It has been recommended for perinatal educators and other members of the health-care team to recognize women at “risk” and provide individualized information to promote successful breastfeeding. Physicians and perinatal educators may be in a unique position to encourage new mothers to join a supportive group and an experienced lactation consultant [21], to screen and prevent early cessation of breastfeeding, avoiding problems and breastfeed for longer periods [42]. Common causes for breastfeeding discontinuation can be anticipated and interventions can be opportunely initiated according to our study, no matter the age or generation.

Social network sites can provide specially support from a trusted community, it is immediate, it complements previous support. Even though the physician or the grandmother are the most positive figures contributed to exclusive breast-feeding, they are also the most influential in its interruption, as we can see in the present study and others [42,43]. It is an important vehicle to spread feeding information, as it become apparent as a highly frequent source of support among women facing breastfeeding problems, without regard to generation, ethnics or country; however, they currently are not using their full potential [28].

The United States Breastfeeding Committee (USBC) is joining the U.S. Surgeon General in calling to create an “environment that empowers and supports all women to achieve their personal breastfeeding goals”. Information can guide groups on social networks to give an effective support [44,45].

Our study had limitations that should be considered. The primary limitation was the lack of some possible associated variables like: domestic violence, body mass index, desired breastfeeding, ethnic status, mutual decision among parents and insurance status among others. Recall bias on our results is to a certain extent minimized since most of the variables included contain current elements that are difficult to modify or forget like a mode of delivery, infant sex or marital status. Nevertheless, our study is hypothesis generator and more research is needed to analyze interventions that will help to reduce breastfeeding cessation, as well as identify what supports are needed to improve women’s experience of breastfeeding.

Conclusion

Although the reasons and sociodemographic variables traditionally shown in the studies are still being reported, the education level of professional providers and social media support are associated with a greater frequency of exclusive breastfeeding at 6 months of age, which indicates that the initially considered factors can be overcome through the use of these tools to troubleshoot breastfeeding issues without regard of age or generation.

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