Determinants of exclusive breastfeeding practice for the first six months in mothers with infants between 6 and 15 months of age in Erbil city, Iraq: A cross-sectional study

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Abstract

Background and objective: Breastfeeding is a useful and natural source of nutrition that provides the healthiest start for an infant. Despite its nutritional benefits, breastfeeding promotes a unique and emotional connection between mother and baby. This study aimed to assess the determinants of exclusive breastfeeding within the first six months of age in Erbil City, Iraq.

Methods: A cross-sectional study was conducted in Erbil city, Iraq, from December 2017 to December 2018. A convenience sampling method was used for selecting mothers of infants aged 6-15 months. A structured interviewer administered questionnaire was used for data collection. The statistical package for the social sciences was used for data analysis and a P value of \leq 0.05 was regarded as statistically significant.

Results: A total of 306 mothers with children aged between 6 and 15 months were included. The prevalence of exclusive breastfeeding was 26.5%. Around 36% of mothers had a primary school qualification, of whom 28.2% gave exclusive breastfeeding. Around 84% of the mother were housewives, of whom 28.3% had exclusive breastfeeding. Around 92% of the mothers had a birth at health facilities, of whom 26.2% gave exclusive breastfeeding. Around 50% of mothers had cesarean section deliveries, of whom 23.4% gave exclusive breastfeeding. Around 44% of the mothers mentioned that insufficient milk is the barrier to exclusive breastfeeding.

Conclusion: Exclusive breastfeeding still remains low compared to the current WHO recommendations. The most common barrier to continuing exclusive breastfeeding was the perception of insufficient milk production. Housewife mothers are more likely to breastfeed their infants exclusively, and least when the mother is a non-house wife.

Keywords: Exclusive breastfeeding; Mothers; Infants; Erbil.

Introduction

Optimal breastfeeding is the best source of nutrition for the newborn and the cornerstone for establishing healthy growth and development for children. Optimal breastfeeding is beneficial to the infant, the mother, the household, and the community. Optimally breastfed babies are less likely to develop childhood infections. Exclusive breastfeeding is defined as no other food or drink, not even water, except breast milk (including milk expressed or from a wet nurse) for six months of life. However, it allows the infant to receive ORS, drops, and syrups (vitamins, minerals, and

medicines). Non-exclusive breastfeeding means breast milk along with infant formula, baby food, and even water within the first six months.2 On the other hand, suboptimal and inadequate breastfeeding practices frequently result in malnutrition, which is a major cause of more than half of all child deaths. Exclusive breastfeeding is regarded as imperative survival.3 World Health infants' Organization (WHO) and United Nations International Children's Fund (UNICEF) recommend mothers to initiate breastfeeding within the first hour after birth. Thereafter, mothers should continue

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feeding their babies with breast milk alone (including expressed milk or from a wet nurse) for at least the first six months of life before adding complementary feeding. Exclusively breastfed infants can only take oral rehydration solution, vitamins and minerals, and prescribed medications. Scientific studies by WHO and UNICEF have proven that breastfeeding is beneficial to both the child and the mother.4 Breast milk lowers the baby's risk of sickness from acute and chronic infections and cost-effective intervention is а that reduces infant mortality morbidity.⁵ Consequently, the WHO has recommended that exclusive breastfeeding for six months of life is essential to achieve optimal growth, development, and better health for infants.6 Despite the recommendations. national exclusive breastfeeding prevalence in developing countries remained very low, ranging from 33% in 1995 to 39% in 2010 among infants aged 0 to five months. The practice of exclusive breastfeeding is suboptimal in many parts of Kurdistan Region to various extent. This study aimed to assess the determinants of exclusive breastfeeding within the first six months of age in Erbil City, Iraq.

Methods

Study design: A cross-sectional descriptive study.

Duration: The study was conducted from 1st of December 2017 to 1st of December 2018.

Setting: A study was carried out in three Primary health care centers (Muhammad Bajalan, Shadi, and Mnara) among 24 centers with an immunization unit in the center of Erbil city.

Sampling method: The three primary health care centers were selected using systematic sampling techniques. A convenience sampling was used to select mothers of infants aged between 6 and 15 months. Mothers with children of these ages were targeted so that they can recall their exclusive breastfeeding

practice. The mothers normally come to the immunization unit with babies at six, nine, and fifteen months of age.

Sample size: All mothers of infants aged between 6 and 15 months who visited the immunization unit in the three selected primary health centers were included in the study. The total number of these mothers was 306 mother-child pairs.

Data collection: Data were collected from mothers of the infants in both immunization and the outpatient department in primary health care centers by using a structured interviewer administered questionnaire. The questionnaire included demographic variables such as a child's age and gender, mother's age, education, occupation, type of delivery, and type of feeding during the 1st six months, father's education, and the number of family members.

Statistical analysis: The statistical package for the social sciences (SPSS version 25) was used for data analysis. The Chi-square test was used to test the significance of associations between independent and dependent variables. A P value of ≤ 0.05 was regarded as statistically significant.

Ethical consideration: This study was Research Ethics approved by the Committee of the Kurdistan Board for Specialties. Verbal informed Medical consent was obtained from all participants them all the required after giving information.

Results

Eighty one (26.47%) mothers were exclusively breastfeeding for six months, and 31 (10.1%) mothers did not breastfeed since birth (Table1).

Gender of infants

There were slightly more male babies 160 (52.3%) than female babies 146 (47.7%) (Table 2).

Age, education level and occupation of mothers

The age range of mothers was 17 to 44 years. One hundred sixty (52.3 %) mothers were in the age group of 25 – 34 years;

47 of them (29.4%) were exclusively breastfeeding their babies. Ninety mothers (29.4%) were in the age group (17-24), only 17 of them (18.9%) were exclusively breastfed their babies). One hundred ten (35.9%) respondents had primary school qualifications, and 31 of them (28.2%) exclusively breastfed their babies. Forty-seven (15.4%) mothers were illiterate,

and only 12 (25.5%) of them were exclusively breastfeeding their babies. Two hundred fifty eight (84.3%) mothers were housewives, 73 (28.3%) of them gave exclusive breastfeeding to their babies. Mothers with all other occupations were 48 (15.7%), only eight (16.7%) of them gave exclusive breastfeeding to their babies (Table 3).

Table 1: Distribution of infants according to the type of feeding.

		Frequency	Percent
Type of feeding	Exclusive breastfeeding	81	26.5
	Non-exclusive breastfeeding	194	63.4
	Non-breast feed	31	10.1
	Total	306	100.0

Table 2: Gender of infants.

Gender	Frequency	Percent
Male	160	52.3
Female	146	47.7
Total	306	100.0

Table 3: Association of age, qualification, and occupation characteristics of mothers with exclusive breastfeeding.

Variable	Non-exclusive breastfeeding	Exclusive breastfeeding	Total	Percent*	P value
	No. (%)	No. (%)	No. (%)		
Age group mother					
17-24	73 (81.1%)	17 (18.9%)	90 (100%)	29.4	0.151
25-34	113 (70.6%)	47 (29.4%)	160 (100%)	52.3	
35-44	39 (69.6%)	17 (30.4%)	56 (100%)	18.3	
Education level of mother					
Illiterate	35 (74.5%)	12 (25.5%)	47 (100%)	15.4	0.887
Primary	79 (71.8%)	31 (28.2%).	110 (100%)	35.9	
Secondary	49 (72.1%)	19 (27.9%)	68(100%)	22.2	
College and postgraduate	62 (76.5%)	19 (23.5%)	81(100%)	26.5	
Occupation of mother					
Non-house wife	40 (83.3%)	8 (16.7%)	48 (100.0%)	15.7	0.094
Housewife	185 (71.7%)	73 (28.3%)	258 (100.0%)	84.3	
Total	225 (73.5%)	81 (26.5%)	306 (100.0%)	100.0	

^{*}Calculated as a column percentage.

Barriers to exclusive breastfeeding among mothers

Ninety-eight (43.57%) respondents said that the primary challenge that hinders exclusive breastfeeding practice was insufficient milk and 47 (20.89%) respondents mentioned child's refusal. Other causes were working, a problem in the breast, mothers' dislike, pregnancy, and others (7.1%, 8.0%, 7.1%, 0.4%, and 12.89%) respectively (Table 4).

Factors associated with exclusive breastfeeding

One hundred sixty five (53.92%) nursing mothers were living in low socioeconomic status; only 46 (27.9%) of them gave their babies exclusive breastfeeding. Seven mothers (2.29%) had high socioeconomic status; only two of them gave their babies exclusive breastfeeding. One hundred ninety three (63.07%) mothers were living in a family with five members or less; 50 (25.9%) of them gave their babies

exclusive breastfeeding. The remaining 130 mothers (36.92%) were living in a family with more than five; 31 (27.4%) of them gave exclusive breastfeeding to their babies. One hundred fifty two (49.67%) mothers had vaginal deliveries; only 45 (29.6%) of them gave their babies breastfeeding exclusively. One hundred fifty four (50.33%) mothers had cesarean section deliveries, and 36 (23.4%) of them gave breast milk exclusively. One hundred (34.31%) mothers had a first child; 17 (16.2%) of them gave their babies exclusive breastfeeding. While 167 (54.58%) mothers had two to four children, only 52 (31.1%) of them gave their babies exclusive breastfeeding. Twenty seven (8.82%) mothers' births were at home; eight(29.6%) of them gave their children exclusive breastfeeding. Mothers giving birth in a health facility were 279 (91.18%); only 73 (26.2%) of them gave their infants exclusive breastfeeding (Table 5).

Table 4: Barriers to exclusive breastfeeding among mothers.

	Frequency	Percent
Working	16	7.1
Insufficient milk	98	43.57
A problem in the breast	18	8.0
Child refused	47	20.89
Mother dislike	16	7.1
Pregnancy	1	0.4
Others	29	12.89
Total	225	100.0

Table 5: Association of socioeconomic status, family member and mode of delivery of mothers with exclusive breastfeeding

Variable	Non- exclusive breastfeeding	Exclusive breastfeeding	Total	Percent*	P value
	No. (%)	No. (%)	No. (%)		
Socioeconomic status					
Low	119 (72.1%)	46 (27.9%)	165 (100.0%)	53.92	0.811
Moderate	101 (75.4%)	33 (24.6%)	134 (100.0%)	43.79	
High	5 (71.4%)	2 (28.6%)	7 (100.0%)	2.29	
Family member					
1-5	143 (74.1%)	50 (25.9%)	193 (100.0%)	63.07	0.770
>5	82 (72.6%)	31 (27.4%)	113 (100.0%)	36.92	
Mode of delivery					
Normal vaginal delivery	107 (70.4%)	45 (29.6%)	152 (100.0%)	49.67	0.217
Cesarean section	118 (76.6%)	36 (23.4%)	154(100.0%)	50.33	
Birth order of child					
First child	88 (83.8%)	17 (16.2%)	105 (100.0%)	34.31	0.012
Second-fourth child	115 (68.9%)	52 (31.1%)	167 (100.0%)	54.58	
Fifth and more	22 (64.7%)	12 (35.3%)	34 (100.0%)	11.11	
Delivery place					
Home	19 (70.4%)	8 (29.6%)	27 (100.0%)	8.82	0.697
Health facility	206 (73.8%)	73 (26.2%)	279 (100.0%)	91.18	
Total	225 (73.5%)	81 (26.5%)	306 (100.0%)	100.0	

^{*}Calculated as a column percentage.

Discussion

The prevalence of exclusive breastfeeding in this study was (26.47%). This finding is closer to the finding of studies done in Saudi Arabia⁸ and the United Arab Emirates⁹ in which they reported 27.3% and 25% and higher than the finding of another study done in Bhaktapur in Nepalin which only 9% of the children were exclusively breastfed at six months of age. 10 In this study, 194 (63.4%) mothers reported mixed feeding. Many researchers from Arab countries also reported mixed feeding as a common feeding practice 11-14 and 10.1% of mothers never breastfeed their infants. This rate close with the finding of a study done in Egypt, 14 which reported 7.1 % of the infants were only bottle-fed. In our study, 98 (43.57%) mothers said that the primary challenge that hinders exclusive breastfeeding practice insufficient milk. This similar to the findings of other studies done in Saudi Arabia.1 Lebanon¹⁶ and the United States of America. 17,18 Another reason that the mothers mentioned for discontinuing breastfeeding was infants refused to breastfeed (20.89%). Many other studies from Saudi Arabia¹⁹ and Brazil²⁰ reported that the child had weaned itself. Other reasons for not giving exclusive breastfeeding to their infants include pregnancy, hunger, or crying after the feeding; this is similar to the finding of other studies done in Saudi Arabia,15 Lebanon, 16 and Jordan. 21 This study shows that older mothers are more likely to have good exclusive breastfeeding practice than younger ones, but the difference was not statistically significant (P = 0.151). This finding is similar to the results of studies done in Nigeria, which reported no significant influence of mother's age and the practice of exclusive or non-exclusive breastfeeding. 22,23 While significant relation reported in other studies carried out in Canada and the United States of America were older women (25 years older) are more likely to initiate and continue breastfeeding compared

younger women.^{24,25} In this study, there was a relationship between the mother's level of education and the practice of exclusive (P = 0.881). These results imply that increasing the level of education does not affect compliance to exclusive breastfeeding. This finding similar to the studies done in Nigeria and Spain in which no significant influence of mother's level of education and the practice of exclusive non-exclusive breastfeeding were reported. 22,23 But a study from the United States of America reported that higher women education in in developing countries was associated with a shorter duration of exclusive breastfeeding.²⁶ Other studies done in Nigeria also found the mothers level of education to be positively correlated with the act of exclusive breastfeeding.^{27,28} In this study, exclusive highest among breastfeeding was housewives (28.2%). On the other hand, 16.6% of non-housewife mothers practiced exclusively breastfeeding. However, there was no significant association between them (P = 0.094). This study is consistent with other studies done in India and the United States of America, which reported no effect of maternal work on exclusive breastfeeding.²⁹ However, this study is not compatible with many studies done in Jordan, ¹³ Saudi Arabia, ³⁰ Malaysia, ³¹ and Canada ³² in different cultures that reported the maternal employment has a negative impact on exclusive breastfeeding. A study from Australia³³ also indicated that working mothers who returned to work were less likely to continue breastfeeding. In this study, we found that cesarean section adversely affects the adoption of exclusive breastfeeding compared to spontaneous vaginal delivery, but the difference was not statistically significant (P = 0.217). This study conforms with studies done in the United Kingdom, which stated that there was no association. 34,35 differs with studies reported the adverse cesarean section on exclusive breastfeeding. 36,37 In this study, young mothers with one child breastfed for

shorter periods than did older multiparous mothers (P = 0.012). Similar results were reported in many other countries such as the Netherlands, ³⁸ Australia, ³⁹ Denmark, ⁴⁰ and United Kingdom. 41 This study found that there is no statistically significant difference between mothers who had a birth at a government health facility compared to mothers who had a birth at home (P = 0.697). Other studies reported different findings. In a study from Nepal, mothers who deliver at home were likely to practice exclusive breastfeeding.⁴² Another study done in Ghana reported that delivery at a hospital/ polyclinic was associated with a two higher likelihood of exclusive breastfeeding. 43 Dongre et al. (2010) in a study done in India, stated that the better practices related to early initiation. and frequency of feeding, exclusive breastfeeding in the study area might be attributed to the high proportion of hospital deliveries.44 This study reveals that socioeconomic status had no relation to the practice of exclusive breastfeeding (P = 0.811). It differs from the finding of the studies of Wright et al. (2004) and Rojjanasrirat and Sousa, (2010) which stated that low socioeconomic status results in early weaning.45 Aidam et al. (2005)also reported that high socioeconomic status was an enabling factor for exclusive breastfeeding in Ghana.43 In this study, there was no significant relationship between family members and the practice of exclusive and non-exclusive breastfeeding (P = 0.770). These findings were not in line with studies conducted by Brand et al., ⁴⁶ Bevan and Brown, 47 and Demirtas, 48 as they reported that the presence of partners and families play a significant role in helping and supporting mothers to continue exclusive breastfeeding for six months, thereby significantly decreasing the risk of early

Conclusion

Exclusive breastfeeding remains still low

discontinuation of exclusive breastfeeding.

compared to the current WHO recommendations; suboptimal exclusive breastfeeding practices were related to many factors. The most common barrier to not continue exclusive breastfeeding was the perception of insufficient milk production. Housewife mothers are more likely to exclusively breastfeed their infants, and least when the mother is non-housewife.

Competing interests

The authors declare no competing interests.

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