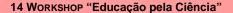
Determinants of Success in Breastfeeding Initiation and Duration in Portugal

- the impact of maternal knowledge and maternity-care practices -



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Introduction

Breastfeeding (BF) is recognized by its health benefits for children and also for the mothers who breastfeed1, 2. Nevertheless, BF rates in Portugal remain under WHO recommendations of exclusive breastfeeding during the first 6 months of life3.4. Many studies suggest that promoting the mother's knowledge about BF and maternity-care practices are two effective ways of improving BF. While the knowledge of the infant's health benefits is pointed as a main reason for sustaining the decision to breastfeed5, it as been suggested that the awareness of mother's own advantages is associated with longer BF periods⁶. On the other hand, the Baby-Friendly Hospitals Initiative (BFHI) consists of a list of practices that has been showed to improve BF rates^{7,9}. However, the influence of these factors on BF in Portugal remains unknown. This study aims to evaluate the association between the initiation and duration of BF and 1) mothers' level of knowledge about BF; and 2) maternity-care practices on BF promotion.

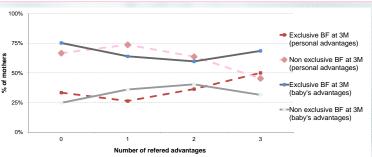
Methods

- · Observational, longitudinal study;
- National sample of 494 women randomly selected from a national registry of all children born (Rastreio Nacional de Doenças Metabólicas do Instituto de Genética Médica Jacinto de Magalhães);
- Telephone questionnaire applied to all mothers at 3 and 6 months postpartum;
- Collected data included socio-demographic, biomedical, hospital-related, and psychosocial factors described as associated with the initiation and the duration of BF;
- · Percentage of children who were ever breastfed, exclusively breastfed at ages 0 to 6 months was calculated;
- BF promotion in maternities was analyzed based on the BFHI list of practices and 2 other practices not included but identified in literature as associated with BF success
- Multivariate logistic regression was used to identify successful BF factors at 3 and 6 months.

- The 494 mothers analyzed were aged 31.0±5.2 yrs (mean±sd) and had 13±4.2 yrs of school attendance, 53.4% were primiparous and 44.3% referred at least one previous experience of BF.
- Most of the mothers (95.8%) initiated BF, and 56.7% and 42.1% were still BF their babies at 3 and 6 months, respectively. Moreover, exclusive BF was practiced by 33.2% of the mothers at 3 months, and decreased to 0.9% at 6 months. Table 2. Prevalence of maternity-care practices of BF promotion

Table 1. Prevalence of referred baby and personal advantages of BF.

Baby's advantages					
	N	%		N	%
Immunological	364	77.1	Physical Recuperation	223	51,9
Nutritional	275	58.3	Contraception	1	0,2
Obesity Prevention	2	0.4	Psychological	69	16,1
Prevention of Diabetes	2	0.4	Mother-baby relationship	176	40,9
Psychological	22	4.7	Economical	127	29,5
Mother-baby relationship	107	22.7	Decreases Risk of Gynecological Neoplasies (Breast, Uterus, Ovary)	55	12,8
Others	42	8.9	Others	95	22,1



N Inform about BF's benefits 42.1 208 Inform about BF's difficulties 189 38.3 44 1 BF initiation within 30 min 201 Show how to breastfeed 74 9 367 Show how to maintain lactation even if separated from baby 222 46 O Only breast milk given 283 58.4 479 97.6 BF on demand 436 89.9 Give no artificial teats or pacifiers a 268 54.5 Provide information on BF support groups b 42 8.5

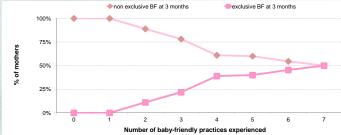


Figure 2. Association between number of practices experienced and exclusive BF at 3 months.

Conclusions

- Although rates for any BF at 3 months were very high, exclusive breastfeeding remained behind the national and WHO goals of 50%.
- Almost all mothers (99.4%) were able to identify at least one infants' benefit of BF, and 89.1% also identified at least one mothers' advantage. There was a positive association between the knowledge of mother advantages and baby's advantages and the exclusive BF at 3months (Figure 1).
- There were great differences regarding the prevalence of the maternity-care practices, which ranged from 8.5% to 97.6% (Table 2). A positive association between the number of maternitycare practices experienced and exclusive BF at 3 months was found (Figure 2).
- The mentioned knowledge explained 10.4% and practice of exclusive BF at the maternity explained 2.7% of the BF rates at 3 months. Together, knowledge and practices are responsible for 11.8% of BF at 3 months.
- Further analysis will be conducted to confirm these results, which are relevant to design effective intervention strategies

References:

- 5(4):413-420 mann-Liebrich U. Do baby-friendly hospitals influence breastfeeding duration on a national level? Pediatrics. 2005;116(5):e702-708

Credits:

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