Can Weekly Telephone Support Prolong Breastfeeding Duration in Mothers at risk of Early Cessation?

20-24 OCTOBER 2025
INSPIRED RESEARCHERS
Northern Health

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BACKGROUND

 Exclusive breastfeeding (EBF) confers many health benefits¹ for both mother and infant.

mother

mother

postnatal depression

type 2 diabetes
mellitus
breast and ovarian cancer

infant

mortality (SIDS, infection)
gastrointestinal and respiratory infection

type 1 diabetes mellitus
atopic dermatitis

- Currently, only 37.5% of Australian mothers reach the recommended EBF duration of 6 months².
- Several maternal factors are associated with a higher risk of early breastfeeding cessation:

 Biological
 Young maternal age³, BMI ≥30⁴, smoking⁵, chronic illness⁶, caesarean delivery⁻

 Psychological
 Depressive and/or anxious symptoms³

 Social
 Low socioeconomic status⁰, employment³, single parenthood¹⁰, limited social support¹¹

• Telephone-based breastfeeding support is a **cost-effective alternative**¹² for hospitals, as well as being convenient and accessible for patients.

AIM

To determine whether a weekly telephone consult program during the first month postpartum prolongs EBF duration for up to 6 months in mothers at risk of early cessation.

METHODS

- **Design.** Secondary analysis of a prospective randomised trial¹³ with further stratification of risk factors linked to early breastfeeding cessation.
- *Participants.* 765 English-speaking mothers who gave birth to infants (>36 weeks) were recruited from The Northern Hospital (TNH) between Feb 2018 and Oct 2019.
- 379 participants were randomly assigned to standard postnatal care (Control). 386 participants were randomly assigned to weekly, proactive telephone calls led by lactation consultants in the first month postpartum (Exposure).
- Statistical analysis. Data collection included maternal factors such as age, BMI, medical and mental health conditions, ethnicity, occupation, marital status and social support. Data analysis was performed using IBM SPSS version 29 & 30. Descriptive and univariate statistics were used.

RESULTS

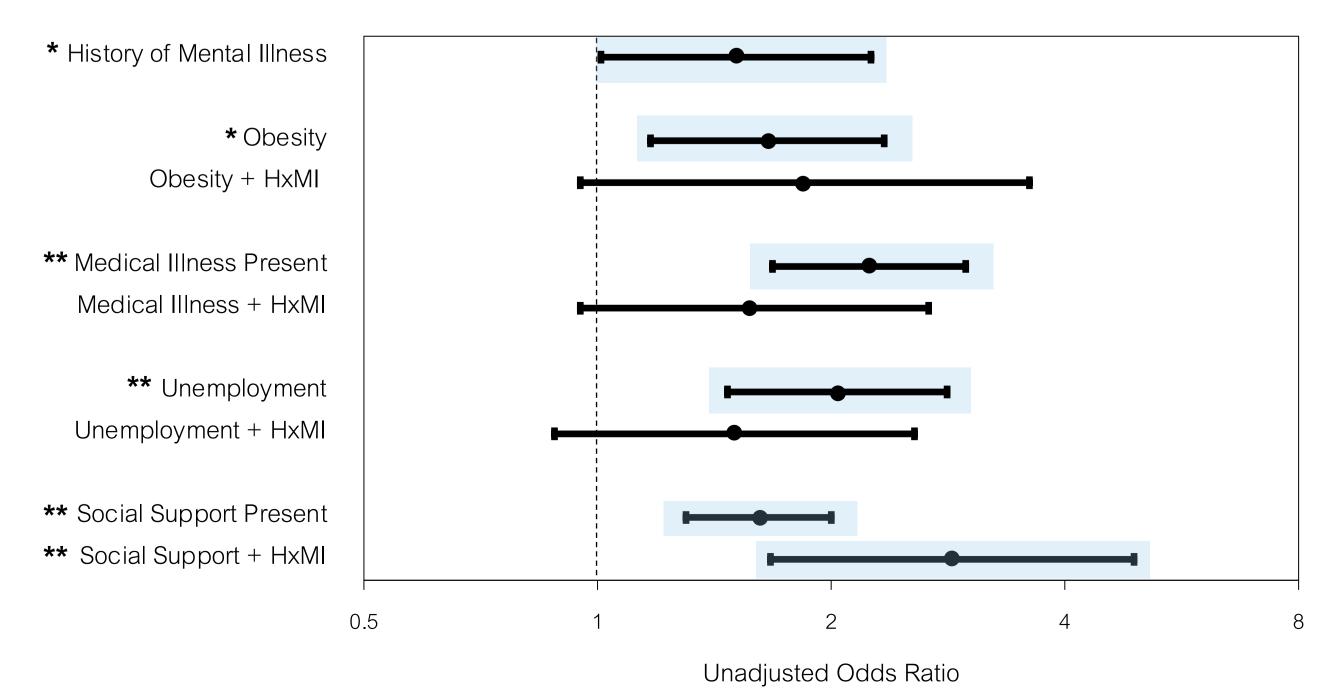
 Table 1. Participants' Baseline Characteristics.

Data presented as n (%) for categorical variables and median (IQR) for continuous variables. Different n given where n < column n. 3 records excluded due to missing data.

Characteristics	Descriptor	Control (<i>n</i> = 378)	Intervention (n = 384)	<i>p</i> - Values
Maternal age		30.5 (24.5–36.5)	30.0 (22.0–38.0)	0.145
Maternal obesity		105 (27.8%)	91 (23.7%)	0.214
Medical condition	Yes	154 (40.7%)	137 (35.7%)	0.157
	No	224 (59.3%)	247 (64.3%)	
Mental health	History of mental illness	72 (19.0%)	75 (19.5%)	0.927
	Active mental illness	58 (15.3%)	56 (14.6%)	0.839
Ethnicity (<i>n</i> = 301/305)	European	91 (30.2%)	104 (34.1%)	0.312
	South Asian	111 (36.9%)	121 (39.7%)	
	East or Southeast Asian	21 (7.0%)	22 (7.2%)	
	Middle Eastern	65 (21.6%)	51 (16.7%)	
	Other	13 (4.3%)	7 (2.3%)	
Occupation status (<i>n</i> = 345/347)	Employed	215 (62.3%)	231 (66.6%)	
	Unemployed	122 (35.4%)	105 (30.3%)	0.323
	Student	8 (2.3%)	11 (3.2%)	
Marital status	Single	43 (11.4%)	53 (13.8%)	0.252
	De Facto	48 (12.7%)	60 (15.6%)	
	Married	287 (75.9%)	271 (70.6%)	
Social support	Yes	238 (86.9%)	272 (91.0%)	0.141
(n = 274/299)	No	36 (13.1%)	27 (9.0%)	

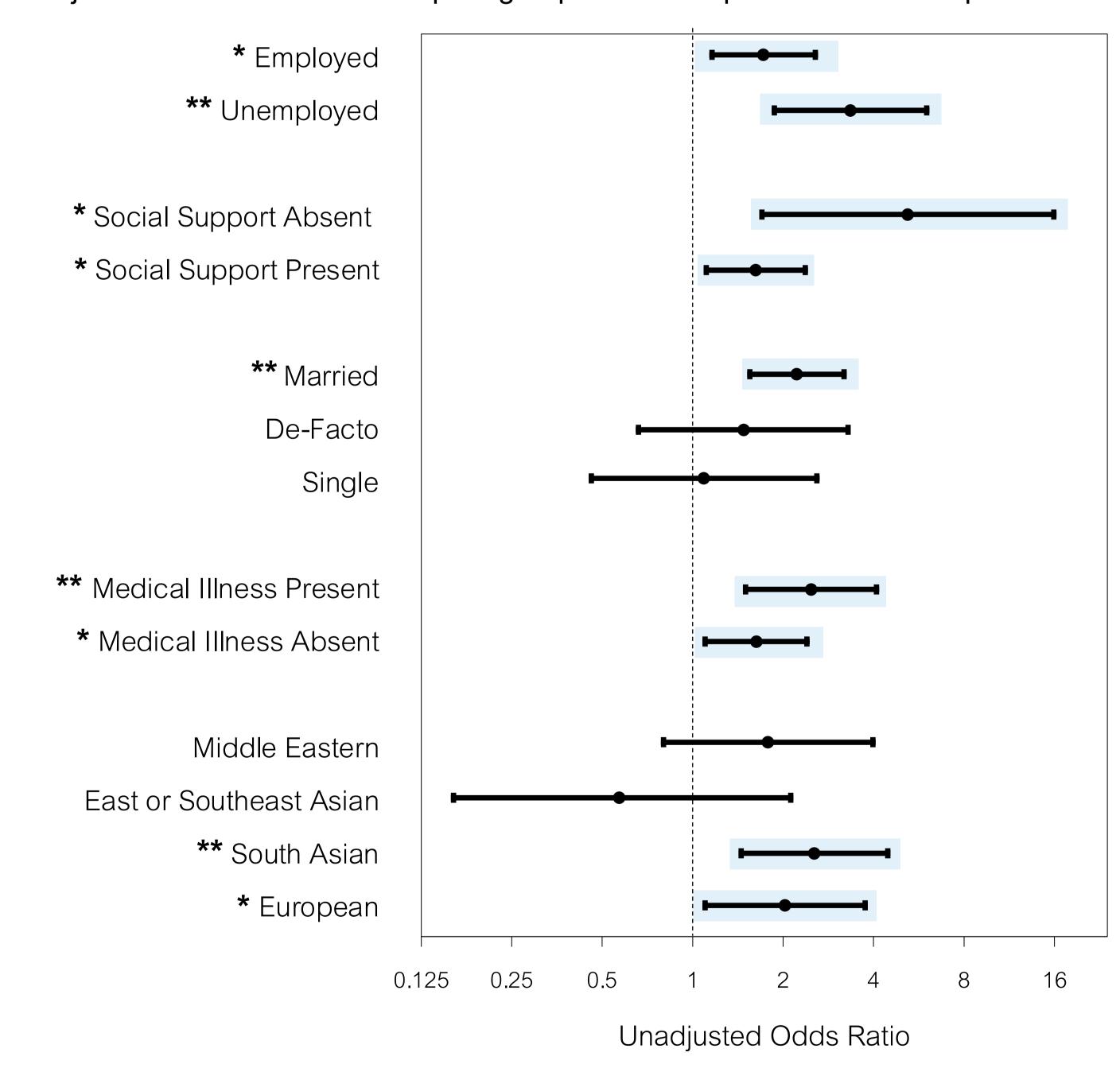
- The program significantly increased EBF rates across the study period in the following maternal groupings. *p < 0.05 **p < 0.001
- No effect was observed in maternal history of mental illness plus concurrent risk factors of unemployment, medical illness or obesity—unless social support was present.

Figure 1. Overall EBF Outcomes by Mental Illness (MI) Comorbidity.



• The program significantly increased EBF rates at 6 months compared to Controls in the following maternal groupings. p < 0.05 * p < 0.001

Figure 2. Effects of a Telephone Intervention on EBF **at 6 months** by Maternal Factors. Unadjusted OR and 95% CI comparing Exposure Group vs. Control Group.



CONCLUSION

- Early postpartum telephone support **prolongs** EBF duration for a number of maternal groups at risk of early cessation.
- A history of MI in combination with other risk factors increased vulnerability to early EBF cessation. Adequate social support may help offset this risk.
- Larger multi-centre trials are required to validate results, focussing on women with multiple risk factors, unmarried status, and of East/Southeast Asian or Middle Eastern descent.

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