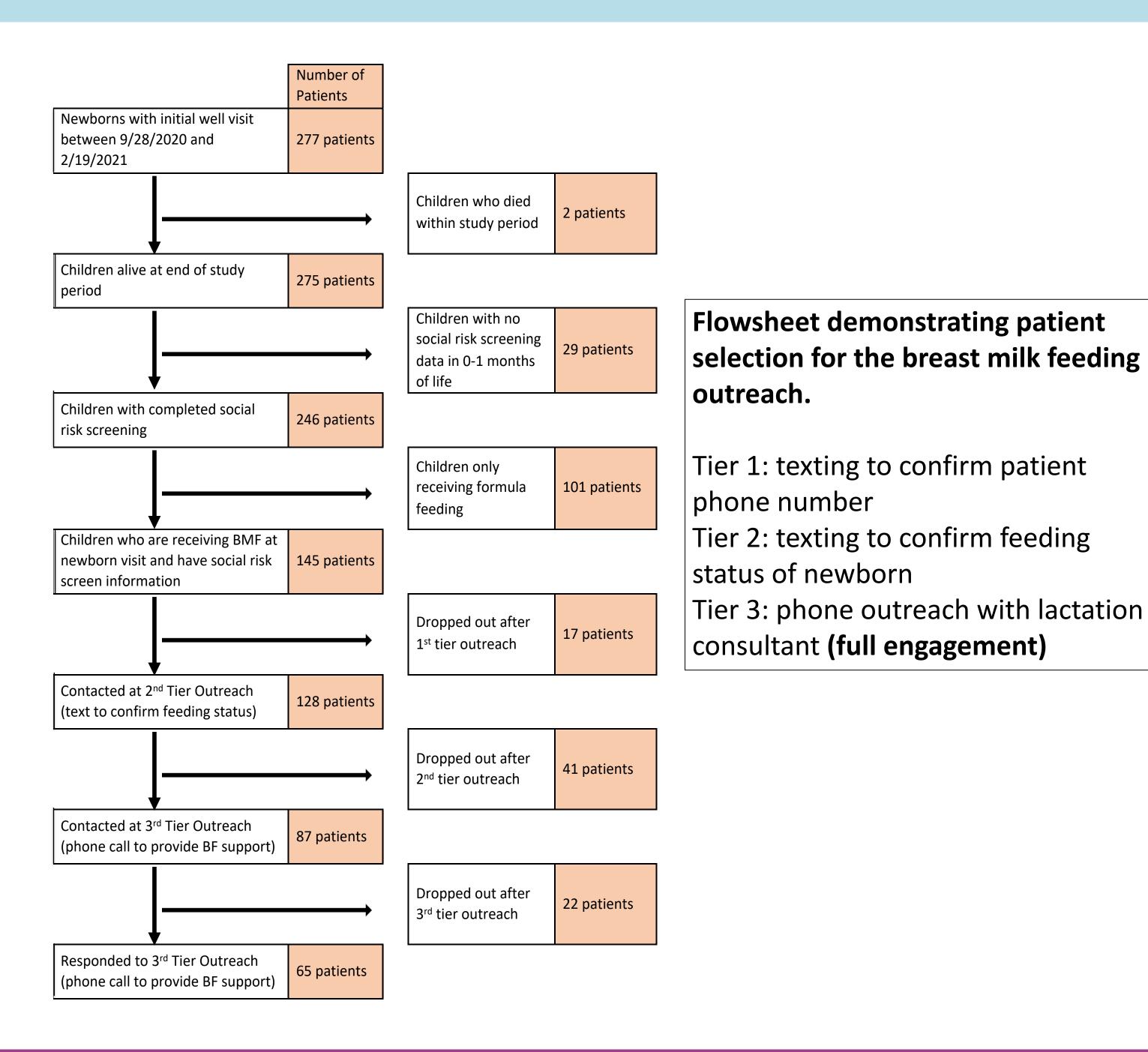
Examining the Effects of Social Determinants of Health and Remote Outreach on Breast Milk Feeding Outcomes and Well Visit Completion

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Universal screening within the CCHMC primary care clinic identifies health related social needs that can impact well being and health care utilization.



Return for Well Child Visits and Breast Milk Feeding Duration

	2-month WCC		4-month WCC		6-month WCC	
	Breast milk feeding		Breast milk feeding		Breast milk feeding	
	RR		RR		RR	
	(95% CI)	p-value	(95% CI)	p-value	(95% CI)	p-value
Fully engaged	1.29		1.45		1.47	
vs Not fully engaged	(0.97, 1.71)	0.076	(0.99, 2.12)	0.054	(0.84, 2.57)	0.176
≥ 1 reported social risks	0.81		1.09		0.96	
vs 0 reported social risks	(0.56, 1.16)	0.252	(0.73, 1.63)	0.669	(0.51, 1.78)	0.886
	(0.00) 1.10)		(0.7.0) 2.00)		(0.01) 1.00	

 Table 2. Remote breast milk feeding support did not significantly increase
breast milk feeding rates at 2, 4, or 6-months. There was a trend towards significance at the 2 and 4-month mark for continued breast milk feeding after full engagement with remote outreach. Analysis performed using adjusted relative risk and controlling for social risk.

Background & Methods

Retrospective review of 277 newborn visits from a quality improvement project to increase breast milk feeding rates via remote lactation support.

		Fully Engaged		
	Not Fully Engaged	(3 rd Tier Response)	p-value	Į
Sample size	80	65		ļ
Child Sex:			0.456^	
Female	48 (60%)	35 (54%)		
Male	32 (40%)	30 (46%)]
Premature birth	16 (20%)	6 (9%)	0.072^]
Child Race/Ethnicity			0.013#	
Hispanic	7 (9%)	0		
Non-Hispanic White	11 (14%)	16 (25%)		
Non-Hispanic Black	61 (76%)	45 (69%)		
Non-Hispanic Asian, Other, Unknown	1 (1%)	4 (6%)]
Insurance:			0.739#	Table 1. Summary of patient
Public	69 (86%)	53 (82%)		
Private	9 (11%)	10 (15%)		demographics. Comparing
Self-Pay	2 (3%)	2 (3%)		
Primary Language:			0.825#	patient families that did not
English	77 (96%)	63 (97%)		receive breast milk feeding
Non-English	3 (4%)	2 (3%)		
Delivery method:			0.661^	support via both texting and
C-section	32 (41%)	24 (37%)		phone outreach vs families wh
Vaginal	47 (59%)	41 (63%)		•
Maternal age:			0.124^	j did.
< 26	29 (38%)	15 (23%)		
26 – 35	40 (52%)	44 (69%)		
> 35	8 (10%)	5 (8%)		There was no statistical
Maternal age (mean)	27.6	29.5	0.046~]
Has another living child:			0.811^	difference in social risk betwee
Yes	70 (88%)	56 (86%)		groups.
Νο	10 (13%)	9 (14%)		
0 reported social risks	20 (25%)	18 (28%)	0.714^	
≥ 1 reported social risks	60 (75%)	47 (72%)		J
Number of reported social risks			0.881^	
0	60 (75%)	47 (72%)		
1	10 (13%)	8 (12%)		
2+	10 (13%)	10 (15%)		
Unmet Social Risk Domain:			0.850^]
Food Insecurity	15 (19%)	13 (20%)		
Benefits Issue	7 (9%)	9 (14%)	0.326^	
Financial Strain	3 (4%)	2 (3%)	0.825#	
Unstable Housing	8 (10%)	5 (8%)	0.615^	^ Chi-square test
Caregiver Mental Health	0	6 (9%)	0.005#	# Fisher's exact test
Household Trauma	2 (3%)	0	0.197#	~ t-test

	2-month WCC		4-month WCC		6-month WCC	
	RR (95% CI)	p-value	RR (95% CI)	p-value	RR (95% CI)	p-value
Fully engaged	1.16		1.16		0.98	
vs Not fully engaged	(1.04, 1.29)	0.009	(0.98, 1.36)	0.081	(0.78, 1.24)	0.891
≥ 1 reported social risks	1.29		1.45		1.47	
vs 0 reported social risks	(0.97, 1.71)	0.076	(0.99, 2.12)	0.054	(0.84, 2.57)	0.176

Table 3. Full engagement in remote breast milk feeding support significantly increased return for the 2-month well child visit. There was also a trend towards significance for the 4-month well child visit. Analysis performed using adjusted relative risk and controlling for social risk.

months.

Strengths and Limitations

Strengths:

- Limitations:
- statistical error).

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Conclusion

Mothers who were fully engaged in a remote lactation support outreach program were significantly more likely to return to primary care clinics with their infants for a 2month well child check as

compared to mothers who were not fully engaged in the program. They were also 45% more likely to still be breastfeeding their infants at 4

Novel integrated approach using community health worker text-based outreach and phone-based lactation support.

• The study may be underpowered and not fully representative of the effect of remote breast milk feeding outreach on duration of breast milk feeding and impact on return visit rates (type I

