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Feasibility Trial of Fresh Produce Delivery to Families in **Home Visiting Programs**

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Background

- 13 million children in the US live in food insecure households.
- Home delivery of produce may improve food security of low-income families.
- This study assessed feasibility and acceptability of leveraging a home visiting program to directly provide food to families with young children.

Objective

We completed an 8-week prospective feasibility trial of direct food provision using produce from our hospital's community garden and regional food bank using mixed methods evaluation.

Methods

- Twenty-five low-income families participating in an infant home visiting program were enrolled.
- Produce was harvested from the garden, combined with free food bank produce, delivered to home visitor program office weekly, and then delivered to the family's home by home visitor.
- Parents completed surveys to evaluate program satisfaction using Likert scales. Results were analyzed with descriptive statistics.
- Semi-structured interviews were conducted with 8 participants in English or Spanish. Transcripts were coded using deductive and inductive methods, and thematic analysis completed.

		N(%)
		16
Total		(100)
Number of Adults in Housel	hold	
	1	4 (25)
	2	8 (50)
	3	2 (12.5)
	4+	2 (12.5)
Number of Children in Hous	ehold	
	1	5 (31.3)
	2-3	3 (18.8)
	4-5	3 (18.8)
	6+	4 (25)
Primary language		
	Burmese	1 (6.3)
	English	7 (43.8)
	Spanish	8 (50)
Race		
	Asian	2 (12.5)
	Black or African	
	American	4 (25)
	Other race	3 (18.8)
	Two or more races	1 (6.3)
	White	3 (18.8)
	No response	3 (18.8)
Ethnicity		
		10
	Hispanic	(62.5)
	Non Hispanic	5 (31.3)
	No response	1 (6.3)







- Overall families were large and diverse in race, ethnicity, and language (Table 1)
- 286 bags (1900 lb) of produce were delivered (average bag: 6.8lb and 6 types of produce); total cost of \$48.08/family
- Most participants liked the program "very much" (94%) and would recommend it to others (100%). Participants reported higher intake of fruits and (50% "a lot more"; 44% "a little more") and 94% tried a new food.
- Thematic analysis of interviews identified (a) food variety and delivery by a familiar person as important, (b) the need for cooking instructions/recipes for the new foods that participants tried, and (c) the positive program impact on the family food purchasing, diet, and budget. (Table 2)

Discussion

- Produce delivery to families enrolled in a home visiting program was acceptable and led to increased fruit and vegetable intake and exposure to new foods.
- Supports a larger trial with comparison group to evaluate the impact on food security and fruit and vegetable intake.
- Partnerships between healthcare institutions and community organizations serving families with young children may make initiatives to address food insecurity and the consumption of fruits and vegetables more effective and feasible.







