# Association between sociodemographic characteristics and breastfeeding among mothers in the Florida Maternal, Infant, and Early Childhood Home Visiting program

# Background

- The Maternal, Infant, and Early Childhood Home Visiting (MIECHV) program provides evidence-based home visiting services to pregnant women, infants, and families residing in 16 high-need communities in Florida.
- MIECHV provides education to families regarding infant development and nutrition; breastfeeding is the gold standard in infant nutrition.
- The American Academy of Pediatrics and World Health Organization recommend exclusive breastfeeding for the first six months of life and encourage breastfeeding for the first year and beyond.



- Breastfed infants have lower rates of infant mortality, respiratory illnesses, diarrhea, and obesity.
- Breastfed children have higher cognitive ability and better academic outcomes.



# Objective

• To examine sociodemographic factors associated with ever breastfeeding among participants in the Florida MIECHV initiative.

## Methods

- Data were retrieved from the Florida Home Visiting Information System for Florida MIECHV participants enrolled during pregnancy between April 2013 – February 2016.
- Participants who responded to the "Ever Breastfed" question asked during home visits, once the child reached six months old, were included in the logistic regression analysis.
- Nine independent variables were considered in the analysis: age, race, ethnicity, education, marital status, substance abuse, household income, number of dependents, and program enrollment model within MIECHV.
- All analyses were conducted using SAS 9.4 statistical software.

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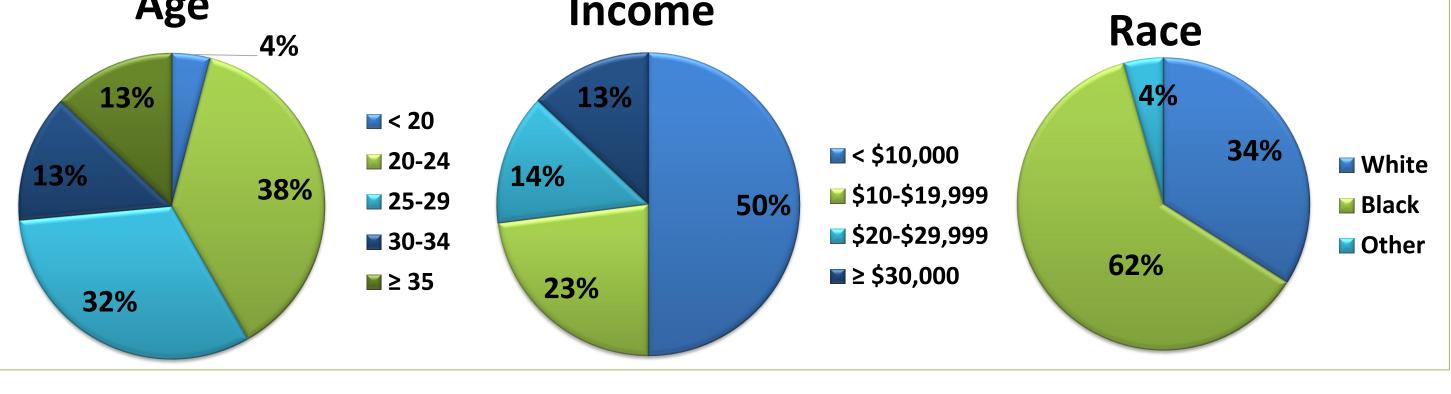
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## Participants

- A total of 294 participants enrolled in the Florida MIECHV programs responded to the question regarding breastfeeding. • 38% of participants were between the ages of 20-24.
- 34% were white, 62% black, and 4% were of other races or multiracial; 73% identified as non-Hispanic.
- 51% of participants had greater than a high school education. • 80% were single; 93% reported no history of substance abuse. • Half of participants had a yearly income of less than \$10,000. • 40% reported having one dependent on their household income.

- Age Income



Results

• Of the 294 study participants who responded to the breastfeeding question, 85% indicated that they had ever breastfed their infant.

	No to Ever				
Ever Breastfed	Breastfed	Total			
N=251 (85%)	N=43 (15%)	N=294	<b>P-Value</b>		
			0.02		
11 (3.7)	1 (0.3)	12 (4.1)			
95 (32.2)	16 (5.4)	111 (38.0)			
71 (24.2)	22 (7.5)	93 (31.6)			
38 (12.9)	2 (0.7)	40 (13.6)			
36 (12.2)	2 (0.7)	38 (12.9)			
			0.003		
145 (49.3)	36 (12.2)	181 (61.6)			
95 (32.3)	5 (1.7)	100 (34.0)			
11 (3.7)	2 (0.7)	13 (4.4)			
			0.01		
118 (40.1)	28 (9.5)	146 (49.7)			
56 (19.1)	12 (4.1)	68 (23.1)			
40 (13.6)	1 (0.3)	41 (14.0)			
37 (12.6)	2 (0.7)	39 (13.3)			
	11 (3.7) 95 (32.2) 71 (24.2) 38 (12.9) 36 (12.2) 145 (49.3) 95 (32.3) 11 (3.7) 118 (40.1) 56 (19.1) 40 (13.6)	N=251 (85%)N=43 (15%) $11 (3.7)$ 1 (0.3) $95 (32.2)$ $16 (5.4)$ $71 (24.2)$ $22 (7.5)$ $38 (12.9)$ $2 (0.7)$ $36 (12.2)$ $2 (0.7)$ $145 (49.3)$ $36 (12.2)$ $95 (32.3)$ $5 (1.7)$ $11 (3.7)$ $2 (0.7)$ $118 (40.1)$ $28 (9.5)$ $56 (19.1)$ $12 (4.1)$ $40 (13.6)$ $1 (0.3)$	Ever Breastfed N=251 (85%)Breastfed N=43 (15%)Total N=29411 (3.7)1 (0.3)12 (4.1)95 (32.2)16 (5.4)111 (38.0)71 (24.2)22 (7.5)93 (31.6)38 (12.9)2 (0.7)40 (13.6)36 (12.2)2 (0.7)38 (12.9)145 (49.3)36 (12.2)181 (61.6)95 (32.3)5 (1.7)100 (34.0)11 (3.7)2 (0.7)13 (4.4)118 (40.1)28 (9.5)146 (49.7)56 (19.1)12 (4.1)68 (23.1)40 (13.6)1 (0.3)41 (14.0)		

## This project is supported by:



Florida Maternal Infant & Early Childhood **Home Visiting Initiative** 

### **Independent Variables**

Race

- Black
- White
- Multiracial/Others

#### Income

- < \$10,000
- \$10,000-\$19,999
- \$20,000-\$29,999
- > \$30,000

#### Education

- ≤ High School Education
- > High School Education

#### \* Denotes significance at p-value < 0.05

- ever breastfeeding.

Household Income \$10,000 -\$19,999

- rates.
- initiation and duration.



F	Results		
	Odds Ratio	95% CI	P-Value
	Ref	Ref	Ref
	4.42	(1.30, 15.06)	0.02*
	1.54	(0.27, 8.86)	0.63
	Ref	Ref	Ref
	0.28	(0.10, 0.82)	0.02*
	2.11	(0.24, 18.51)	0.50
	0.66	(0.10, 4.20)	0.66
า	0.39	(0.17, 0.92)	0.03*
า	Ref	Ref	Ref

• Maternal age, marital status, ethnicity, substance abuse, and number of dependents were not significantly associated with

Of those indicators, the following were found to be significantly associated with lower rates of breastfeeding:

> High School Education or Lower

Non-White Race

# Discussion

Many Florida MIECHV program participants enrolled during pregnancy are minorities, have low education levels, and live in poverty; these factors are associated with lower breastfeeding

• Since this sample of participants have been participating for at least six months in an evidence-based home visiting model, these results cannot be generalized to other mothers. • The Florida MIECHV program should continue to identify needs, guide interventions and referrals, and collect accurate and complete data in order to identify and reduce disparities in breastfeeding rates and better support women in breastfeeding

> The Lawton and Rhea **Chiles Center** for Healthy Mothers and Babies