



# Infant Mortality

*Data to Drive Improvement*

Joint Medicaid Oversight Committee  
July 13, 2023

# Infant Mortality

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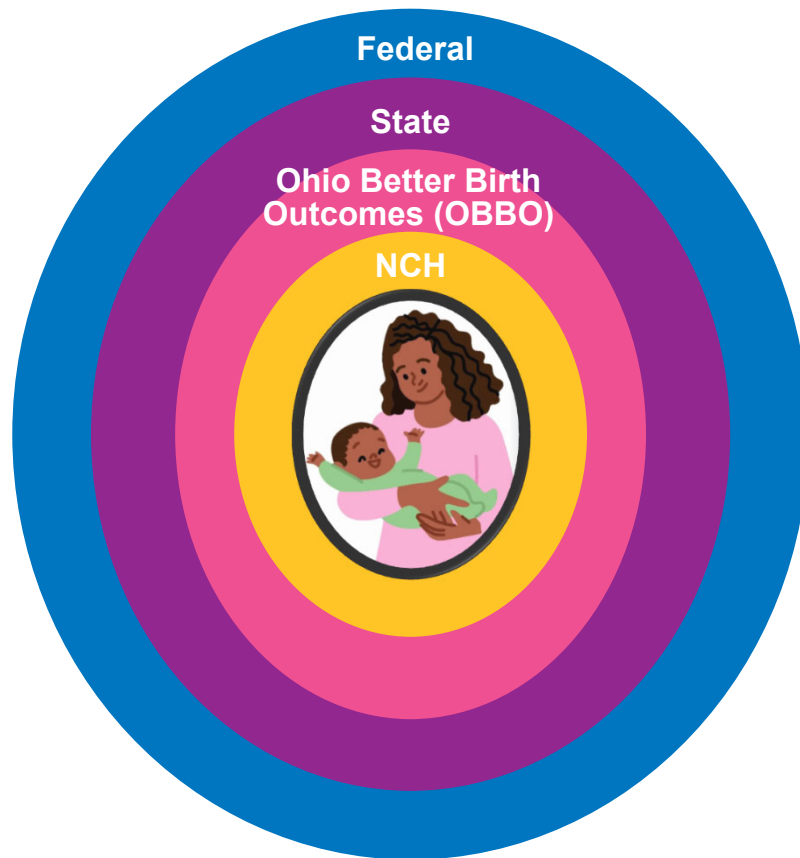
***“Infant Mortality is often an indicator of overall health and well-being of a community”***

**- CDC**

- Ohio ranks 40<sup>th</sup> in country for Infant Mortality rate
- Franklin County Ranks 8<sup>th</sup> worst in Ohio
- Racial disparity ratio of >3 in all Ohio metro counties



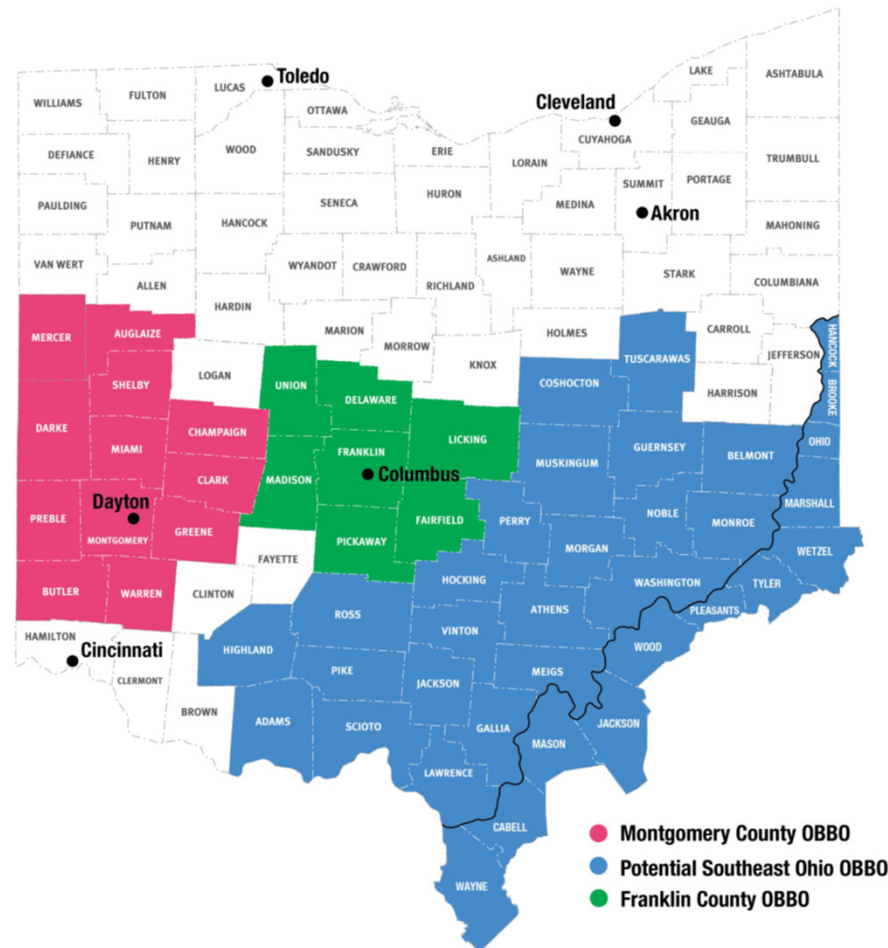
# Background



## OBBO Mission

*Reduce the infant mortality rate by improving the delivery of health services for low-income women and their families using quality improvement science to guide our work.*

# Geographies of Focus





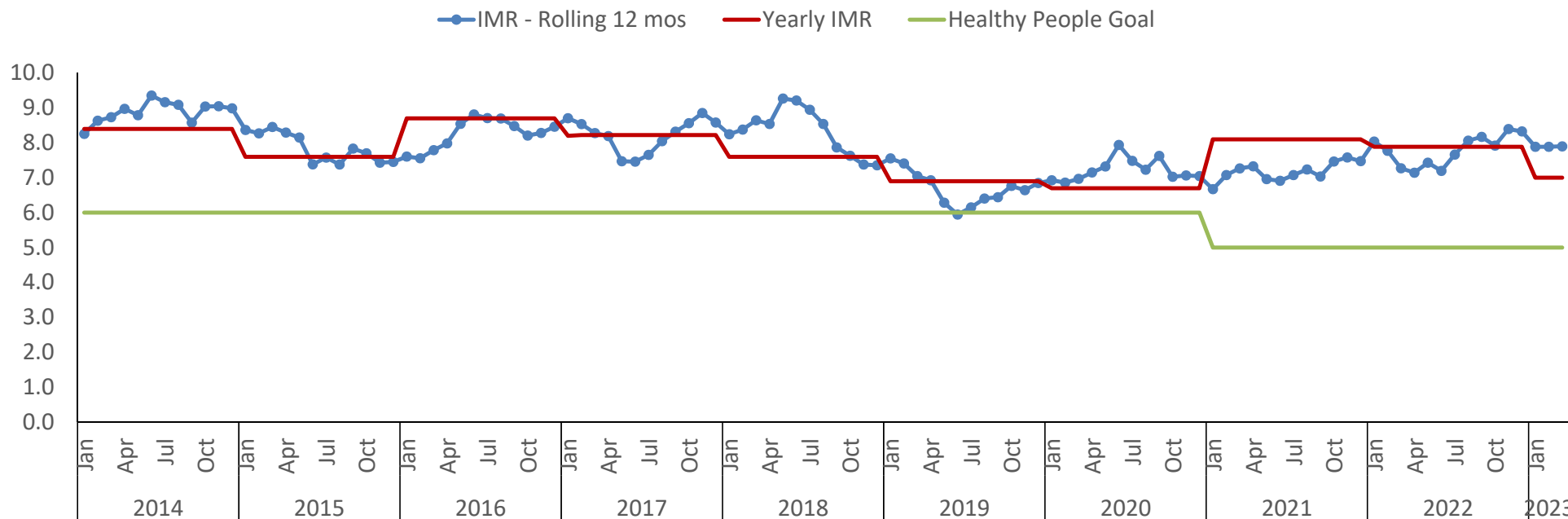
# Data Use Overview

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- **Monitor trends** in infant mortality rate, key indicator outcomes (i.e. early prematurity) and disparities
- **Evaluate effectiveness** of priority initiatives to inform QI processes
- **Enable QI analyses** of infant deaths through OBBO peer review committee to inform interventions

# Monitor Trends: Franklin County Infant Mortality Rate

Rolling 12 Months Average  
January 2014 – March 2023

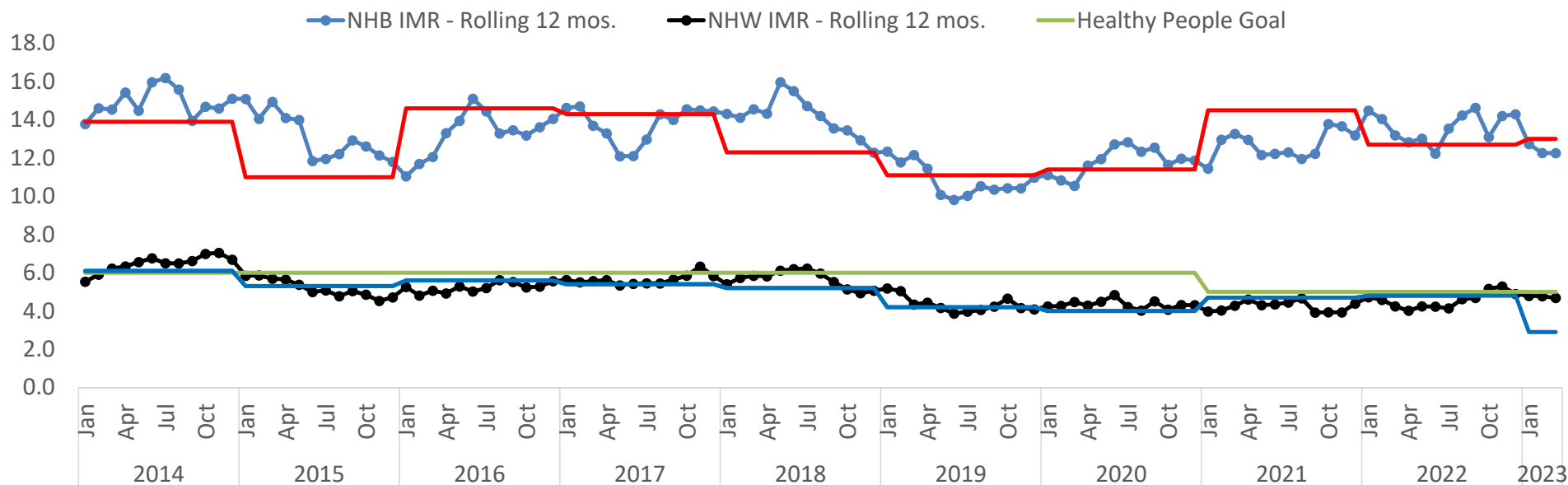


Yearly Rate (Deaths/Births):									
2014: 8.4 (158/18880)	2015: 7.6 (145/19064)	2016: 8.7 (165/18955)	2017: 8.2 (155/18800)	2018: 7.6 (138/18266)	2019: 6.9 (127/18331)	2020: 6.7 (117/17534)	2021*: 8.0 (140/17418)	2022*: 7.9 (138/17496)	2023*: 7.0 (30/4297)

Infant Mortality = Franklin County Deaths < 1 year old / Franklin County Live Births x 1000  
 The Healthy People Goal is set by the U.S. Department of Health and Human Services  
 Data Sources: Ohio Department of Health Office of Vital Statistics, analyzed by Nationwide Children's Hospital  
 Birth and death data as of March 2023, pulled 5/10/2023  
 \*Note: 2021, 2022, 2023 birth & death data are preliminary and subject to change

# Monitor Trends: Franklin County Infant Mortality Rate

Rolling 12 Months Average Total & By Race  
January 2014 – March 2023



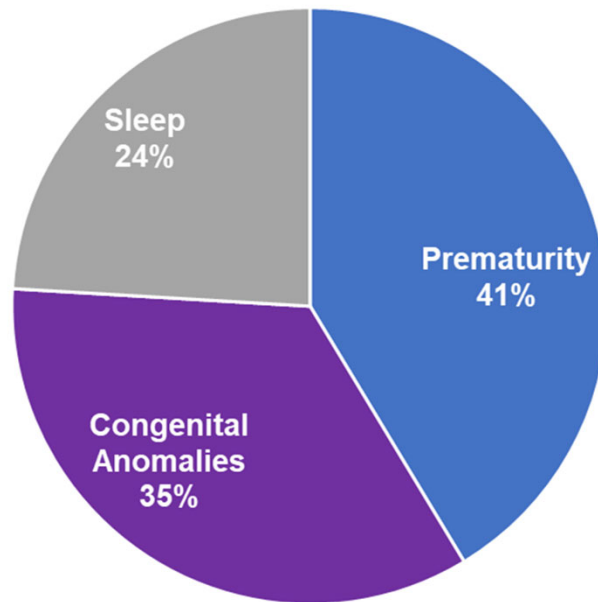
NHB Yearly Rate (Deaths/Births):								
2014:	13.9	(81/5368)	2015:	11.0	(61/5524)	2016:	14.6	(85/5810)
2017:	14.3	(83/5800)	2018:	12.3	(72/5833)	2019:	11.1	(66/5937)
2020*:	11.4	(65/5681)	2021*:	14.5	(80/5524)	2022*:	12.7	(72/5655)
2023:	13.0	(19/1465)						
NHW Yearly Rate (Deaths/Births):								
2014:	6.1	(61/10441)	2015:	5.3	(56/10658)	2016:	5.6	(58/10314)
2017:	5.4	(56/10369)	2018:	5.2	(51/9844)	2019:	4.2	(41/9671)
2020*:	4.0	(37/9299)	2021*:	4.7	(42/8897)	2022*:	4.8	(43/8975)
2023:	2.9	(6/2092)						

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# Monitor Trends: Leading Causes of Death



Franklin County 2020 - 2022  
(n=266)



Infant Mortality = Franklin County Deaths < 1 year old / Franklin County Live Births x 1000

The Healthy People Goal is set by the U.S. Department of Health and Human Services

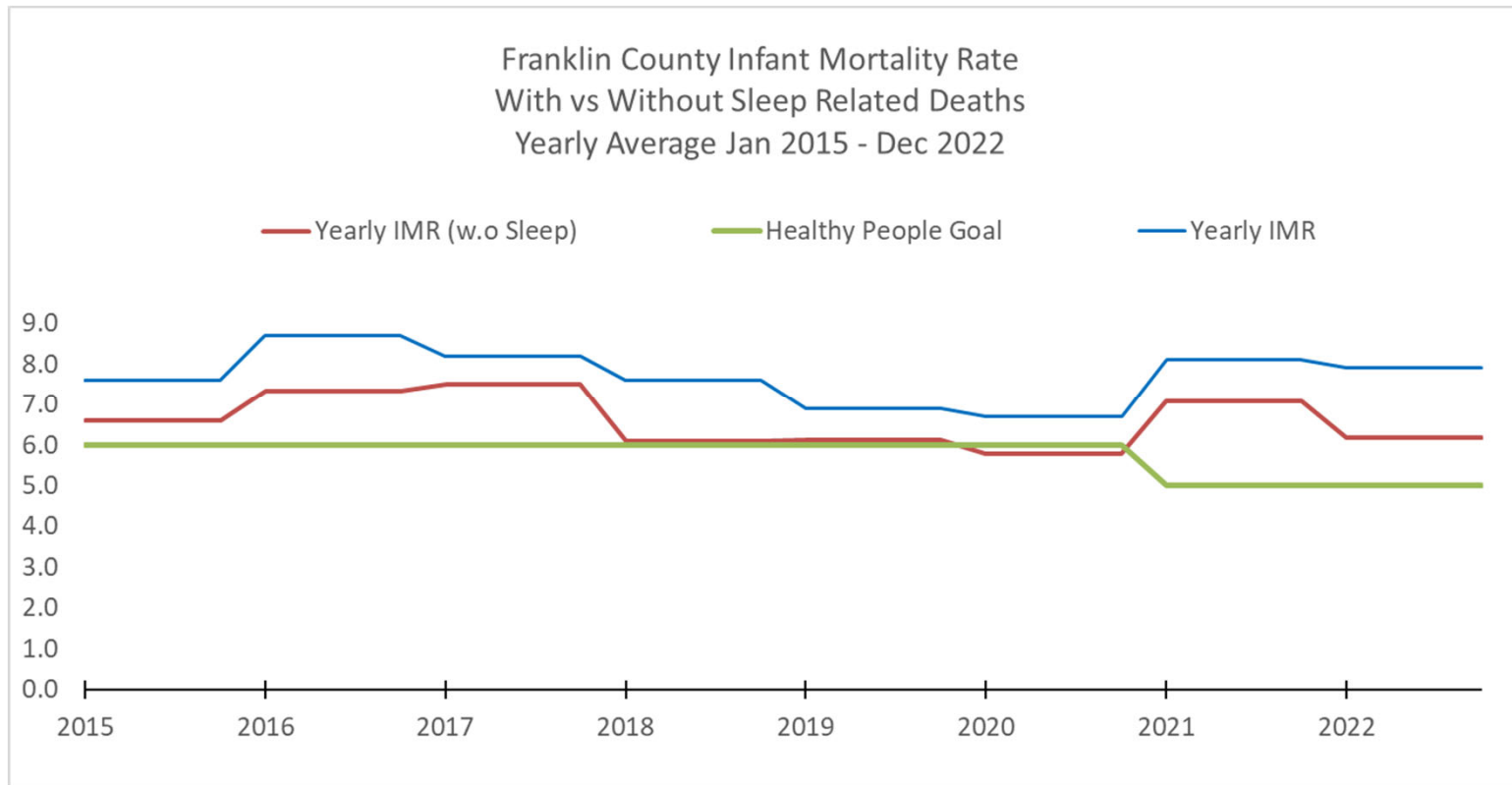
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# Monitor Trends: Impact of Sleep-Related Deaths



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# Evaluate Effectiveness: OBBO Scorecard



	2030 Goal	2019	2020	2021	2022	4-Yr Average 2020 - 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	YTD
<b>Infant Mortality</b>											
IMR - # Deaths among Franklin County infants < 1 Year old per 1000 live births	≤ 5 > 7	6.9	6.7	7.8	7.9	7.3	7.0	-	-	-	7.0
Non-Hispanic Black infant mortality rate per 1000 live births	≤ 7.6 > 12	11.1	11.4	14.5	12.7	12.5	13.0	-	-	-	13.0
Non-Hispanic White infant mortality rate per 1000 live births	≤ 5 > 16	4.2	4.0	4.7	4.8	4.4	2.9	-	-	-	2.9
# Sleep Deaths		15	17	16	30	20	8	-	-	-	8
<b>Birth Outcomes</b>											
% Preterm birth <32 weeks GA, Fr Co.		2.3%	1.7%	1.5%	1.9%	2.0%	1.9%	-	-	-	1.9%
% Preterm birth <32 wks for Non-Hispanic Black, Fr Co.		3.8%	2.3%	3.3%	2.6%	3.0%	2.5%	-	-	-	2.5%
# Births per 1000 women age 15-19		17.0	15.9	15.0	14.2	15.5	14.4	-	-	-	14.4
<b>Prenatal Care</b>											
% Births in Franklin County with no prenatal care		2.5%	1.8%	1.3%	1.9%	2.0%	1.8%	-	-	-	1.8%
% Births with first trimester entry into prenatal care		73.5%	74.7%	75.5%	73.6%	74.0%	70.9%	-	-	-	70.9%
% Pregnant women in Franklin County who smoke during their 3rd trimester		6.2%	5.8%	5.3%	3.9%	5.0%	2.9%	-	-	-	2.9%
<b>Perinatal Support</b>											
# Eligible women served by evidenced-based Home Visiting in Franklin County		2110	1848	1860	-	1939	-	-	-	-	-
<b>Funded Programs</b>											
# Women served through B&MTF with negative tobacco test during 1st postpartum visit		43	105	60	44	63	11	0	0	0	11
# Women in Franklin County scheduled for prenatal care by StepOne		3783	3683	2825	2274	3141	307	0	0	0	307
# Women served by OBBO Medical Legal Partnership (closed cases)		288	220	410	362	320	107	0	0	0	107

## 2023 Priorities:

- Home Visiting
- Safe Sleep
- PRAF completion

# Enable Analyses: Home Visiting



## Goals:

- Expand community capacity to 5,000 families/year
- Connect 50% of women seen in prenatal clinics



Enrolled at any point prenatally		
HV Status	>32 weeks	Very Preterm (<32 weeks)
No Home Visiting	486	46 (8.65%)
Home Visiting – enrolled prenatally	527	5 (.95%)

Enrolled before 20 weeks		
HV Status	>32 weeks	Very Preterm (<32 weeks)
No Home Visiting	225	17 (7.02%)
Home Visiting – enrolled before 20 weeks	242	0

# Federal Funding to Support Priority Work

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## **HRSA – Franklin County**

- Awarded Sept 2022
- \$2.5M
- Embed CHWs into prenatal care clinics
- Increase connection to perinatal supports (i.e. home visiting)

## **CDC – Appalachian Ohio**

- Applied May 2023
- \$3.1M
- Establish OBBO in Appalachian Ohio and West Virginia
- Increase data access and coordinated strategies across health systems

# Sleep-Related Deaths



***New safe sleep guidelines for babies stress no co-sleeping, crib decorations or inclined products***



## **Internal Safe Sleep Collaborative:**

- Finalize and disseminate staff education
- Revise screening and counseling approach (AAP guidelines)

## **External Influence:**

- Layered external campaign across delivery hospitals and direct-to-families
- **Statewide WIC partnership for text video messaging (SMARTER study)**