



# Ohio Equity Institute (OEI) Community Based Organizations (CBO) Evaluation Project

Results Presentation for First Year Cleveland 6-2021



# Project Background

- 10 Medicaid funded Community Based Organizations (CBOs)
  - Focused on eliminating the racial disparity in infant mortality
  - Three evidence-based models of intervention and other programs
    - Home Visiting
    - CenteringPregnancy
  - Other programs
    - Doulas
- Assess how programs are making a difference in health care utilization and birth outcomes.
  - Profile health and social risk factors
  - Profile services received prenatally
  - Measure birth outcomes
  - Measure postpartum health and care

# Project Background- Data Collection

- Enrollment, Birth, Encounter, and Exit Forms
- Qualtrics data collection portal
- Monthly data submissions
  - August 2018 – April 2021 represented in presentation
  - Data collection ongoing

## Birth form

Complete this form the first time data is collected after the birth of the child. Please write clearly in blue or black ink, place only one character in each box, and use all uppercase letters; this form will be read by a computer.

**1** On what date is this form being filled out?

Month    Day    Year

**2** What is the participant's birth date?

Month    Day    Year

**3** Participant's identification information:

First name

Last name

Medicaid ID number

Social Security number

Gender

Female

Male

Street address

City

ZIP code

Phone number

**4** Infant's identification information:

First name

Last name

Medicaid ID number (if known)

Social Security number (if known)

Sex

Female

Male

Is the infant's address the same as the participant's?

Yes

No

Street address

City

ZIP code

If you marked yes, you may skip the address fields to the right. If no, complete these fields.

# Participant Enrollment

Program Type	Number
CenteringPregnancy	856 (+13)
Home Visiting	1,912 (+28)
Other	378 (+62)
Total	3,146 (+103 since Feb)

Total number of different OEI participants in county: 2,858

Participants may be in more than one program; county estimates reflect total N.

Numbers reflect program enrollment from August 2018 through April 2021. Added numbers are since February.

# Participant Demographics

Race Category	N (%)	Specific Race	N (%)
White	234 (8.3%)	White	234 (8.3%)
Black	2,381 (84.9%)	Black or African American	2,310 (82.4%)
		Black or African American, White	25 (0.9%)
		Black or African American, Other	46 (1.6%)
Other	189 (6.7%)	American Indian or Alaska Native	1 (0.0%)
		Asian	5 (0.2%)
		Hispanic or Latino	97 (3.5%)
		Native Hawaiian or Pacific Islander	3 (0.1%)
		Other	4 (0.1%)
		Unknown	5 (0.2%)
		Mixed race, not Black or unknown mix	74 (2.6%)
		<b>Total</b>	<b>2,804</b>

Age	N (%)
Under 16	30 (1.0%)
16-20	696 (22.9%)
21-25	934 (30.7%)
26-30	831 (27.3%)
31-35	369 (12.1%)
36-40	152 (5.0%)
41 or older	31 (1.0%)
<b>Total</b>	<b>3,043</b>

All other races and mixes were grouped into Other, including mixed race when the individual mix was not specified. When the question was not answered, it was considered missing (342/3,146, 10.9%), and if the question was answered and specifically said Other or Unknown, it was categorized as Other.

**Note:** Throughout, totals may not match due to underreporting. All data available was used. 5

## Race by Intervention Type

Type	Race	N (Percentage)
CenteringPregnancy	Black	608 (79.5%)
	White	101 (13.2%)
	Other	56 (7.3%)
Home Visiting	Black	1,554 (85.8%)
	White	132 (7.3%)
	Other	125 (6.9%)
Other	Black	219 (96.1%)
	White	1 (0.4%)
	Other	8 (3.5%)
<b>Total</b>		<b>2,804</b>

There is a significant relationship between race and intervention type ( $p < 0.001$ ). The majority of participants for all intervention types are Black, but the percentages are highest for *Other* (96.1%) and lowest for *Centering* (79.5%).

## Enrollment per Trimester

Gestational age at enrollment	N (%)
First trimester (≤12 weeks)	285 (14.0%)
Second trimester (13-26 weeks)	1,300 (63.8%)
Third trimester (≥ 27 weeks)	434 (21.3%)
Infant already born	19 (0.9%)
Total	2,038

People are encouraged to join most prenatal – focused programs early in pregnancy (some home visiting programs include non-pregnant populations). Most people are recruited in the second (63.6%) trimester across programs.

	First trimester (%)	Second trimester (%)	Third trimester (%)	Already born (%)
<b>Centering</b>	11.6	84.9	3.5	0.0
<b>Home Visiting</b>	15.4	54.9	28.4	1.3
<b>Other</b>	10.7	49.5	37.9	1.9

There is a significant relationship between gestation at start of program and intervention type ( $p < 0.001$ ). The majority start in their second trimester across programs, but higher percentages start in the first trimester for home visiting and the third trimester for Other (doulas).

## Prenatal Care Initiation

Prenatal care in first trimester	N (%)
Yes	1,238 (89.1%)
No	152 (10.9%)
<b><i>Total</i></b>	<b><i>1,361</i></b>

Note: Some programs do not consistently collect or report this



# Referrals

Referral type	N (% of encounters)
Food	931 (21.2%)
Other prenatal/parenting programs	670 (15.3%)
Medical (primary care, prenatal, postpartum, dental)	483 (11.0%)
Housing	432 (9.8%)
Baby supplies (crib, diapers, car seat, baby clothes, formula)	377 (8.6%)
WIC	365 (8.3%)
Mental/behavioral health	364 (8.3%)
Employment	288 (6.6%)
Transportation	259 (5.9%)
Help paying bills/utilities	187 (4.3%)
Child care	183 (4.2%)
Adult education	101 (2.3%)
Tobacco/smoking cessation	86 (2.0%)
Domestic violence services	73 (1.7%)
Legal assistance	37 (0.8%)
Clothing	31 (0.7%)
Furniture	22 (0.5%)
Birth control/family planning	20 (0.5%)
All other (includes other social service or general programs and vague entries such as "all," "any," "other," "community resources," or "social service")	937 (21.4%)

3,850/14,951 (25.8%) of encounters involved at least one referral

539/2,572 (21.0%) of group encounters involved at least one referral

4,389/17,523 (25.1%) of all encounters/group encounters at least one referral made

Multiple services can be referred at once

## Risk Factors at Intake

Risk factor	N (% of participants)
Depression	480 (18.1%)
Smoking in household	423 (16.0%)
Trouble paying bills	422 (15.9%)
Stress in past month	394 (14.9%)
Home safety issues	393 (14.9%)
Transportation barriers	323 (12.2%)
Not taking prenatal vitamins	193 (7.3%)
Food insecurity/Inadequate food access	181 (6.8%)
No social support	108 (4.1%)
Substance use	94 (3.6%)
Drinking	43 (1.6%)
Homeless	28 (1.1%)

- Some programs do not collect all risk factor data (for example, home safety)
- Most common risk factors were depression, smoking, and trouble paying bills

## Outcomes: Number of Prenatal Visits in OEI Births

Visits	N (%) Cuyahoga	N (%) All OEI
0	24 (1.2%)	319 (2.0%)
1-4	156 (7.5%)	1,488 (9.4%)
5-8	483 (23.3%)	3,595 (22.6%)
9-12	868 (42.0%)	5,808 (36.5%)
13-16	382 (18.5%)	3,358 (21.1%)
17+	156 (7.5%)	1,354 (8.5%)
<b>Total</b>	<b>2,069</b>	<b>15,922</b>

32% of OEI births were to mothers with fewer than 9 prenatal visits in Cuyahoga county, and 34% of all moms in OEI

Note: These are results through Feb 2021 from birth records. Many enrolled participants do not yet have corresponding birth records.

## Outcomes: Low and Very Low Birth Weight Rates in OEI CBO Births

Birth Weight	N (%) Cuyahoga	N (%) All OEI
Very Low Birth Weight (<1,500 grams)	53 (2.6%)	407 (2.5%)
Low Birth Weight (1,500-2,499 grams)	230 (11.1%)	1,706 (10.6%)
Normal Birth Weight (2,500-3,999 grams)	1,719 (82.7%)	13,287 (82.4%)
High Birth Weight (4,000+ grams)	76 (3.7%)	722 (4.5%)
<b>Total</b>	<b>2,078</b>	<b>16,122</b>

Infants with very low or low birth weight made up 13.7% of Cuyahoga County OEI births, and 13.1% of All OEI births.

Note: These are results through Feb 2021 from birth records. Many enrolled participants do not yet have corresponding birth records.

## Outcomes: Preterm and Very Preterm Birth Rates in OEI CBO Births

Category	Gestational Age	N (%) Cuyahoga	N (%) All OEI
Very Preterm	<28 weeks	32 (1.5%)	251 (1.6%)
Preterm	28-32 weeks	48 (2.3%)	470 (2.9%)
	33-36 weeks	222 (10.7%)	1,890 (11.7%)
Full Term	37-40 weeks	1,556 (74.9%)	11,687 (72.5%)
	>40 weeks	220 (10.6%)	1,827 (11.3%)
	<b>Total</b>	<b>2,078</b>	<b>16,125</b>

The rate of preterm birth was 14.5% for Cuyahoga county and 16.2% for all OEI births. For Cuyahoga county, 1.5% were very preterm births and for all OEI 1.6% were very preterm.

Note: These are results through Feb 2021 from birth records. Many enrolled participants do not yet have corresponding birth records.

## Other Outcomes in OEI Births

Outcome	N (%) Cuyahoga	N (%) All OEI	N (%) Black Cuyahoga	N (%) Black All OEI
Gestational diabetes	95 (4.6%)	1,248 (7.7%)	69 (4.0%)	691 (6.7%)
Gestational hypertension	286 (13.8%)	1,959 (12.1%)	241 (14.0%)	1,294 (12.5%)
NICU admission	300 (14.4%)	2,077 (12.9%)	259 (15.1%)	1,377 (12.9%)
Death	18 (0.87%)	138 (0.86%)	17 (0.99%)	96 (0.92%)
Total number	2,080 births	16,135 births	1,720 births	10,380 births

Note: These are results through Feb 2021 from birth records. Many enrolled participants do not yet have corresponding birth or death records.

Questions?

---

# ACKNOWLEDGEMENT

The OEI CBO Evaluation is funded by the Ohio Department of Medicaid and administered by the Ohio Colleges of Medicine Government Resource Center. The views expressed in this report are solely those of the authors and do not represent the views of the state of Ohio or federal Medicaid programs.