



Telling
the story
of Michigan's
mothers
and
babies.



2017 Birth Year Maternal and Infant Health Summary Tables

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Introduction to the 2017 MI PRAMS Annual Tables

Michigan's Pregnancy Risk Assessment Monitoring System (MI PRAMS) is an annual population-based survey of new mothers, assessing behaviors and experiences around the time of pregnancy. MI PRAMS is a collaboration between Centers for Disease Control and Prevention (CDC) and the Michigan Department of Health and Human Services (MDHHS). MI PRAMS operations are housed within the Maternal and Child Health Epidemiology Section, a part of the Division of Lifecourse Epidemiology and Genomics.

MI PRAMS utilizes a mixed-mode methodology in order to gather information from women selected to participate in the survey. This combination mail/telephone survey methodology is used in order to maximize response rates. Data collection for the 2017 birth year was conducted by the Michigan Department of Health and Human Services (mail) the Bloustein Center for Survey Research at Rutgers University (phone).

MI PRAMS surveys approximately 1 to 2 percent of resident mothers who have delivered a live born infant in Michigan within each calendar year. MI PRAMS mothers are selected using a stratified random sample of live birth certificates. In 2017, the sample was selected from within the following strata:

Stratum 1: Low birthweight infants, entire state

Stratum 2: Black mothers, normal birthweight infants, southeast Michigan [St. Clair, Macomb, Oakland, Livingston, Washtenaw, Wayne, and Monroe counties]

Stratum 3: All other mothers, normal birthweight infants, southeast Michigan

Stratum 4: Black mothers, normal birthweight infants, all non-southeast counties

Stratum 5: All other mothers, normal birthweight infants, all non-southeast counties

In 2017, 3,573 women were selected for MI PRAMS and 1,897 completed the survey, for an unweighted response rate of 53.1 percent. Adjusting for differing probabilities of selection within each stratum, the weighted response rate is 56.1 percent. Survey results from these 1,897 respondents are weighted to represent the approximately 107,941 pregnancies resulting in live births in 2017. It is worth noting that - due to multiple births - the number of *pregnancies* each year will be lower than the overall number of *live born infants*. Thus MI PRAMS is technically representative of the population of new mothers, a number that is nearly equal to the number of new infants.

The 2017 birth year is the second year of Phase 8 of the PRAMS survey. The Phase 7 version of PRAMS was used from 2012 through 2015. The prior phase, Phase 6, ran from 2009 through 2011. Many questions in the survey are asked with identical wording across survey phases, so some comparisons can be made over time. There are a few topics where wording changes across survey phases making direct comparison over time problematic or impossible. These include pre-pregnancy and postpartum depression, pregnancy intention, infant cosleeping, and pre-pregnancy income. A multi-phase topic map can be found at:

http://www.michigan.gov/documents/mdch/MI_PRAMS_Topic_Map_366719_7.pdf

New survey topics covered in Phase 8 include marijuana and prescription opioid usage; e-cigarette and hookah usage; breastfeeding: reasons why not breastfeeding, information sources, breast pumps; access to basic needs; infant care givers; adverse childhood experiences (ACES); maternal resilience; and maternal sleep. A comparison of topics between this report and the prior year's report can be found in the Appendix.

**Table 1. Distribution of selected maternal characteristics,
MI PRAMS, 2017**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Maternal Age				
Total	1,897	107,941	100.0	
<18 Years	40	1,410	1.3	(0.8-2.0)
18-19 Years	86	3,610	3.3	(2.4-4.6)
20-24 Years	410	22,372	20.7	(18.3-23.3)
25-29 Years	629	35,741	33.1	(30.4-35.9)
30-34 Years	441	26,975	25.0	(22.6-27.6)
35-39 Years	237	14,863	13.8	(11.9-15.9)
40+ Years	54	2,969	2.8	(2.0-3.8)
Race/Ethnicity				
Total	1,890	107,424	100.0	
White, non-Hispanic	785	70,727	65.8	(63.5-68.1)
Black, non-Hispanic	908	19,961	18.6	(18.1-19.1)
Hispanic	72	7,355	6.8	(5.3-8.8)
Asian/Pacific Islander, non-Hispanic	44	3,139	2.9	(2.1-4.1)
Other, non-Hispanic	81	6,242	5.8	(4.5-7.5)
Education				
Total	1,871	106,703	100.0	
<High School	216	10,016	9.4	(7.8-11.2)
HS Grad/GED	525	27,462	25.7	(23.2-28.5)
Some College	640	34,488	32.3	(29.6-35.2)
College Degree+	490	34,737	32.6	(29.9-35.4)
Pre-Pregnancy Insurance Status				
Total	1,821	104,303	100.0	
Uninsured	101	7,607	7.3	(5.7-9.3)
Medicaid/Public	745	32,698	31.3	(28.7-34.1)
Private	975	63,998	61.4	(58.4-64.2)
Marital Status				
Total	1,896	107,901	100.0	
Married	869	64,866	60.1	(57.3-62.8)
Other	1,027	43,035	39.9	(37.2-42.7)
Parity				
Total	1,895	107,904	100.0	
No Prior Live Births	718	40,897	37.9	(35.1-40.8)
1	595	35,688	33.1	(30.3-35.9)
2+	582	31,319	29.0	(26.4-31.8)
Last Year's Household Income				
Total	1,670	96,759	100.0	
<\$16,000	497	18,878	19.5	(17.3-21.9)
\$16,001-\$24,000	258	14,832	15.3	(13.1-17.8)
\$24,001-\$40,000	255	13,936	14.4	(12.3-16.8)
\$40,001-\$60,000	197	14,177	14.7	(12.5-17.1)
\$60,001+	463	34,936	36.1	(33.2-39.1)

Table 2. Distribution of pre-pregnancy maternal body mass index categories, MI PRAMS, 2017

Body Mass Index (BMI)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
BMI Category[†]				
Underweight	53	2,207	2.0	(1.4-2.9)
Normal Weight	786	49,186	45.6	(42.6-48.5)
Overweight	473	27,202	25.2	(22.7-27.9)
Obese	585	29,346	27.2	(24.7-29.9)

[†]Based on IOM 2009 weight categories. Weight categories are calculated using pre-pregnancy body mass index (BMI).

BMI formula = (Weight in pounds * 0.45) / [(Height in inches * 0.025)²]

Underweight BMI = <18.5, Normal weight BMI = 18.5-24.9, Overweight BMI = 25-29.9, Obese BMI = >30.

Reference: Institute of Medicine (US) and National Research Council (US) Committee to Reexamine IOM Pregnancy Weight Guidelines; Rasmussen KM, Yaktine AL, editors. Weight Gain During Pregnancy: Reexamining the Guidelines. Washington (DC): National Academies Press (US); 2009.

Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	53	2,207	2.0	(1.4-2.9)
Maternal Age				
<20 Years	11	493	9.8**	(4.4-20.4)
20-29 Years	32	1,374	2.4	(1.5-3.8)
30+ Years	10	340	0.8**	(0.3-1.7)
Race/Ethnicity				
White, non-Hispanic	17	1,308	1.8	(1.1-3.2)
Black, non-Hispanic	30	706	3.5	(2.4-5.1)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	10	246	2.5**	(1.3-4.7)
HS Grad/GED	12	485	1.8**	(0.8-3.9)
Some College	18	691	2.0**	(1.1-3.6)
College Degree+	12	651	1.9**	(0.9-3.8)
Pre-Pregnancy Insurance Status				
Uninsured	*	*	*	*
Medicaid/Public	25	831	2.5	(1.5-4.3)
Private	25	1,293	2.0	(1.2-3.3)
Marital Status				
Married	17	975	1.5**	(0.8-2.7)
Other	36	1,232	2.9	(1.8-4.4)
Parity				
No previous live birth	26	1,238	3.0	(1.8-5.0)
1	13	472	1.3**	(0.7-2.6)
2+	14	498	1.6**	(0.8-3.3)
Last Year's Household Income				
<\$16,000	17	392	2.1	(1.3-3.4)
\$16,001-\$24,000	*	*	*	*
\$24,001-\$40,000	*	*	*	*
\$40,001-\$60,000	*	*	*	*
\$60,001+	12	755	2.2**	(1.1-4.2)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	786	49,186	45.6	(42.6-48.5)
Maternal Age				
<20 Years	59	2,118	42.2	(30.1-55.3)
20-29 Years	408	24,353	41.9	(37.9-46.0)
30+ Years	319	22,715	50.7	(46.2-55.2)
Race/Ethnicity				
White, non-Hispanic	372	34,182	48.3	(44.4-52.3)
Black, non-Hispanic	324	6,911	34.6	(31.4-38.0)
Hispanic	26	2,809	38.2	(26.4-51.6)
Asian/Pacific Islander, non-Hispanic	21	1,643	52.3	(35.7-68.5)
Other, non-Hispanic	39	3,294	52.8	(39.5-65.7)
Education				
<High School	91	4,270	42.6	(33.6-52.2)
HS Grad/GED	210	11,009	40.1	(34.3-46.1)
Some College	234	14,023	40.7	(35.6-45.9)
College Degree+	243	19,458	56.0	(50.9-61.0)
Pre-Pregnancy Insurance Status				
Uninsured	36	3,376	44.4	(32.2-57.2)
Medicaid/Public	276	12,429	38.0	(33.1-43.2)
Private	430	30,883	48.3	(44.4-52.1)
Marital Status				
Married	392	32,263	49.7	(45.8-53.7)
Other	394	16,923	39.3	(35.1-43.8)
Parity				
No previous live birth	311	18,502	45.2	(40.5-50.1)
1	234	15,442	43.3	(38.2-48.5)
2+	239	15,205	48.5	(43.1-54.0)
Last Year's Household Income				
<\$16,000	187	7,534	39.9	(33.6-46.6)
\$16,001-\$24,000	96	6,198	41.8	(33.7-50.3)
\$24,001-\$40,000	96	5,475	39.3	(31.3-47.9)
\$40,001-\$60,000	79	6,004	42.4	(34.1-51.0)
\$60,001+	221	18,065	51.7	(46.5-56.8)

**Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics,
MI PRAMS, 2017**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	473	27,202	25.2	(22.7-27.9)
Maternal Age				
<20 Years	37	1,701	33.9	(22.5-47.6)
20-29 Years	256	15,137	26.0	(22.6-29.8)
30+ Years	180	10,365	23.1	(19.6-27.1)
Race/Ethnicity				
White, non-Hispanic	190	17,112	24.2	(21.0-27.7)
Black, non-Hispanic	228	5,030	25.2	(22.3-28.4)
Hispanic	22	2,299	31.3	(20.7-44.3)
Asian/Pacific Islander, non-Hispanic	15	1,325	42.2	(26.6-59.5)
Other, non-Hispanic	17	1,320	21.1	(12.3-33.9)
Education				
<High School	51	2,434	24.3	(17.0-33.4)
HS Grad/GED	131	6,680	24.3	(19.6-29.8)
Some College	156	9,140	26.5	(22.1-31.5)
College Degree+	129	8,688	25.0	(20.9-29.7)
Pre-Pregnancy Insurance Status				
Uninsured	31	1,534	20.2	(12.4-31.1)
Medicaid/Public	179	8,495	26.0	(21.6-30.9)
Private	247	16,428	25.7	(22.4-29.2)
Marital Status				
Married	224	16,664	25.7	(22.4-29.3)
Other	249	10,539	24.5	(20.8-28.5)
Parity				
No previous live birth	179	10,828	26.5	(22.4-31.0)
1	148	8,637	24.2	(20.1-28.9)
2+	146	7,738	24.7	(20.3-29.7)
Last Year's Household Income				
<\$16,000	110	4,523	24.0	(18.7-30.2)
\$16,001-\$24,000	65	3,418	23.0	(16.8-30.8)
\$24,001-\$40,000	64	3,844	27.6	(20.6-35.8)
\$40,001-\$60,000	52	4,011	28.3	(21.2-36.7)
\$60,001+	127	9,014	25.8	(21.6-30.5)

Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	585	29,346	27.2	(24.7-29.9)
Maternal Age				
<20 Years	19	708	14.1	(8.0-23.6)
20-29 Years	343	17,250	29.7	(26.1-33.5)
30+ Years	223	11,388	25.4	(21.7-29.5)
Race/Ethnicity				
White, non-Hispanic	206	18,125	25.6	(22.3-29.2)
Black, non-Hispanic	326	7,314	36.6	(33.3-40.1)
Hispanic	23	2,162	29.4	(18.9-42.6)
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	24	1,607	25.7	(15.7-39.2)
Education				
<High School	64	3,066	30.6	(22.5-40.1)
HS Grad/GED	172	9,288	33.8	(28.4-39.7)
Some College	232	10,634	30.8	(26.3-35.8)
College Degree+	106	5,941	17.1	(13.6-21.2)
Pre-Pregnancy Insurance Status				
Uninsured	32	2,649	34.8	(23.5-48.1)
Medicaid/Public	265	10,943	33.5	(28.8-38.4)
Private	273	15,395	24.1	(20.9-27.5)
Marital Status				
Married	236	14,964	23.1	(19.9-26.5)
Other	348	14,342	33.3	(29.3-37.6)
Parity				
No previous live birth	202	10,330	25.3	(21.3-29.7)
1	200	11,137	31.2	(26.6-36.2)
2+	183	7,879	25.2	(20.9-29.9)
Last Year's Household Income				
<\$16,000	183	6,429	34.1	(28.2-40.4)
\$16,001-\$24,000	91	4,954	33.4	(26.0-41.7)
\$24,001-\$40,000	89	4,251	30.5	(23.3-38.8)
\$40,001-\$60,000	63	3,938	27.8	(20.9-35.9)
\$60,001+	103	7,102	20.3	(16.5-24.8)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Table 7. Prevalence of maternal health problems during the 3 months before pregnancy,
MI PRAMS, 2017**

Maternal Health Problem	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
Anxiety	387	25,360	23.8	(21.3-26.6)
Depression	289	16,699	15.7	(13.6-18.0)
Anemia	366	14,571	13.7	(12.0-15.7)
Asthma	245	12,363	11.6	(9.9-13.5)
Thyroid Problems	127	8,185	7.7	(6.2-9.5)
Polycystic Ovary Syndrome (PCOS)	125	7,832	7.3	(5.9-9.1)
Hypertension	159	7,790	7.3	(5.9-9.0)
Heart Problems	71	4,115	3.9	(2.8-5.2)
Epilepsy	66	4,043	3.8	(2.8-5.1)
Diabetes	83	3,857	3.6	(2.7-4.9)

Table 8. Prevalence of health care visits in the year before pregnancy - including dental or mental health - with a doctor, nurse, or other healthcare worker by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,224	75,334	70.9	(68.2-73.5)
Maternal Age				
<20 Years	65	2,782	55.8	(42.7-68.1)
20-29 Years	614	36,867	64.7	(60.7-68.6)
30+ Years	545	35,684	80.6	(76.8-83.9)
Race/Ethnicity				
White, non-Hispanic	608	54,413	77.5	(73.9-80.8)
Black, non-Hispanic	497	11,035	56.7	(53.2-60.2)
Hispanic	46	4,660	67.2	(53.4-78.6)
Asian/Pacific Islander, non-Hispanic	25	1,924	61.3	(44.3-75.9)
Other, non-Hispanic	45	3,103	50.8	(37.5-64.0)
Education				
<High School	98	4,772	49.1	(39.6-58.8)
HS Grad/GED	277	15,569	57.7	(51.6-63.5)
Some College	429	24,681	73.3	(68.4-77.6)
College Degree+	406	29,523	85.4	(81.3-88.7)
Pre-Pregnancy Insurance Status				
Uninsured	39	3,207	42.2	(30.3-55.2)
Medicaid/Public	403	18,809	59.3	(54.1-64.3)
Private	739	50,926	80.3	(77.1-83.2)
Marital Status				
Married	649	50,163	78.1	(74.6-81.3)
Other	574	25,131	59.9	(55.4-64.2)
Parity				
No previous live birth	480	29,244	72.2	(67.7-76.4)
1	394	25,389	72.2	(67.3-76.7)
2+	350	20,701	67.8	(62.5-72.6)
Last Year's Household Income				
<\$16,000	268	10,326	55.5	(48.8-62.0)
\$16,001-\$24,000	148	8,485	58.5	(49.9-66.6)
\$24,001-\$40,000	171	9,985	71.6	(63.4-78.7)
\$40,001-\$60,000	136	10,719	76.5	(68.5-82.9)
\$60,001+	403	30,770	88.4	(84.7-91.3)

Table 9. Type of healthcare visits among women in the 12 months before pregnancy, MI PRAMS, 2017

Type of visit	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Type of Visit (non-exclusive)				
Dentist	799	52,760	69.2	(65.8-72.3)
OB/GYN check up	709	41,829	54.9	(51.3-58.4)
Illness	175	11,747	15.4	(13.0-18.1)
Family planning/Birth control	200	11,533	15.1	(12.7-17.8)
Depression/Anxiety	146	8,918	11.7	(9.5-14.2)
Injury	68	3,744	4.9	(3.6-6.7)
Other	159	11,658	15.3	(12.8-18.1)

Table 10. Type of counseling/screening among women reporting any healthcare visits in the 12 months before pregnancy, MI PRAMS, 2017

Type of counseling/screening	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Type (non-exclusive)				
Smoking screening	963	59,275	78.6	(75.5-81.4)
Current job duties	779	48,068	64.4	(60.8-67.7)
Depression screening	712	39,948	53.3	(49.8-56.9)
Emotional and physical abuse screening	679	36,982	49.5	(46.0-53.1)
Birth control	568	32,437	43.2	(39.7-46.8)
Family planning	500	30,904	41.3	(37.8-44.8)
Healthy weight	481	25,901	34.7	(31.4-38.1)
Folic acid vitamins	368	23,278	31.2	(28.0-34.5)
HIV test administered	503	22,129	30.1	(27.1-33.3)
Improving pre-conception health	339	17,819	23.9	(21.1-27.0)
STI	368	15,604	20.9	(18.3-23.7)
Controlling medical conditions e.g. diabetes/high blood pressure	199	8,561	11.5	(9.6-13.8)

Table 11. Frequency of taking a folate-containing vitamin in the month before pregnancy, MI PRAMS, 2017

Frequency of vitamin use	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Frequency of vitamin use				
Didn't take a vitamin	1,060	59,272	55.2	(52.3-58.2)
1-3 times per week	155	7,544	7.0	(5.7-8.6)
4-6 times per week	119	7,989	7.4	(6.0-9.2)
Every day of the week	549	32,495	30.3	(27.6-33.1)

Table 12. Prevalence of no folic acid containing vitamin consumption in the month before pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,060	59,272	55.2	(52.3-58.2)
Maternal Age				
<20 Years	87	4,002	80.8	(70.4-88.2)
20-29 Years	650	35,624	61.7	(57.6-65.6)
30+ Years	323	19,646	44.1	(39.6-48.6)
Race/Ethnicity				
White, non-Hispanic	380	36,089	51.2	(47.3-55.1)
Black, non-Hispanic	568	12,785	64.9	(61.5-68.1)
Hispanic	43	4,737	64.4	(51.4-75.6)
Asian/Pacific Islander, non-Hispanic	21	1,839	58.6	(42.0-73.5)
Other, non-Hispanic	44	3,595	58.9	(45.2-71.3)
Education				
<High School	134	6,854	69.0	(59.8-76.9)
HS Grad/GED	343	18,725	68.8	(63.0-74.0)
Some College	398	20,801	60.6	(55.4-65.6)
College Degree+	171	12,290	35.5	(30.7-40.7)
Pre-Pregnancy Insurance Status				
Uninsured	74	5,918	78.2	(66.7-86.5)
Medicaid/Public	496	22,452	69.2	(64.2-73.8)
Private	456	29,352	46.1	(42.3-50.0)
Marital Status				
Married	370	27,947	43.4	(39.4-47.3)
Other	689	31,285	73.1	(69.1-76.7)
Parity				
No previous live birth	381	21,003	51.7	(46.8-56.5)
1	326	19,227	54.0	(48.8-59.1)
2+	352	19,021	61.3	(55.9-66.5)
Last Year's Household Income				
<\$16,000	331	13,508	71.9	(66.0-77.2)
\$16,001-\$24,000	181	10,896	74.1	(66.3-80.7)
\$24,001-\$40,000	149	8,173	59.1	(50.6-67.2)
\$40,001-\$60,000	107	7,454	52.6	(44.0-61.0)
\$60,001+	164	12,909	37.0	(32.1-42.1)

Explanation of Pregnancy Intention, Pregnancy Timing, and Contraceptive Behavior

Michigan PRAMS asks women about several similar yet distinct concepts around pregnancy intention and contraceptive behavior. To measure pregnancy intention, PRAMS asks mothers to think about the time just before they became pregnant. Mothers report how they felt about becoming pregnant. Women can report that they wanted to be pregnant:

- sooner
- right at that time
- later
- not then or at any time in the future

Mothers who wanted to be pregnant sooner or right when they got pregnant, combined, make up women with an "intended" pregnancy. Mothers who wanted to be pregnant either never or sometime in the future had pregnancies that are classified as "unintended."

Starting with Phase 7 of MI PRAMS (2012-2015) and continuing into Phase 8 (2017-2020), a fifth pregnancy intention response option is offered. Women who were not sure whether they wanted to be pregnant could indicate that instead of choosing one of the other four responses. Because of the change in response options for pregnancy intention, comparisons cannot be made across survey phases (before 2012 and after 2012). **Table 13** reports pregnancy intention for Michigan mothers and **Table 15** summarizes the characteristics of women who reported an unintended pregnancy.

Pregnancy timing is calculated for all mothers who did not indicate their pregnancy was intended. Mothers who wanted to be pregnant in the future have pregnancies classified as "mistimed." Mothers who did not ever wish to get pregnant had pregnancies classified as "unwanted." **Table 14** contains these results.

Contraceptive behavior is distinct from pregnancy intention in that it asks mothers to report their actions at the time before their most recent pregnancy, not just their feelings about becoming pregnant. **Table 16** summarizes contraceptive behavior. Mothers are asked whether they were trying to conceive at the time they became pregnant. Characteristics of women who report that they were trying to conceive at the time of pregnancy are reported in **Table 17**.

Mothers who were not trying to conceive are asked whether they were using any contraceptive practices or engaged in any behavior to prevent pregnancy at the time they became pregnant. **Table 18** reports the characteristics of mothers who became pregnant despite acting to prevent pregnancy. These mothers also share the type of contraception they were using when they got pregnant in **Table 19**. Characteristics of women who report they were not trying to conceive but were also not engaged in any behaviors that would prevent pregnancy are reported in **Table 20**. These mothers also share their reasons for not using contraceptives in **Table 21**.

**Table 13. Distribution of pregnancy intention categories,
MI PRAMS, 2017**

Intention	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Intended	892	59,267	55.8	(52.9-58.7)
Unintended	532	25,702	24.2	(21.8-26.8)
Unsure	438	21,164	19.9	(17.7-22.4)

**Table 14. Distribution of unintended pregnancy subtypes among women reporting either unsure
or unintended pregnancy, MI PRAMS, 2017**

Unintended Pregnancy Subtype	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Mistimed	405	20,075	42.8	(38.6-47.2)
Unwanted	127	5,627	12.0	(9.5-15.0)
Unsure	438	21,164	45.2	(40.8-49.6)

Table 15. Prevalence of unintended pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	532	25,702	24.2	(21.8-26.8)
Maternal Age				
<20 Years	60	1,759	35.3	(24.6-47.6)
20-29 Years	339	16,165	28.0	(24.5-31.7)
30+ Years	133	7,778	17.9	(14.7-21.8)
Race/Ethnicity				
White, non-Hispanic	159	14,308	20.6	(17.5-24.1)
Black, non-Hispanic	329	7,564	38.4	(35.1-41.9)
Hispanic	18	1,648	22.8	(13.6-35.7)
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	19	1,768	28.3	(17.7-42.0)
Education				
<High School	69	2,858	29.3	(21.5-38.5)
HS Grad/GED	174	7,224	27.1	(22.3-32.6)
Some College	194	9,686	28.5	(23.9-33.4)
College Degree+	89	5,650	16.4	(12.9-20.5)
Pre-Pregnancy Insurance Status				
Uninsured	32	1,869	25.6	(16.4-37.8)
Medicaid/Public	256	10,283	31.7	(27.1-36.6)
Private	226	13,055	20.7	(17.8-24.0)
Marital Status				
Married	155	10,471	16.5	(13.8-19.6)
Other	377	15,231	35.8	(31.7-40.2)
Parity				
No previous live birth	208	9,960	24.6	(20.7-28.9)
1	153	8,138	23.1	(19.0-27.8)
2+	171	7,604	25.1	(20.7-29.9)
Last Year's Household Income				
<\$16,000	183	6,430	34.4	(28.5-40.8)
\$16,001-\$24,000	96	5,412	36.6	(28.9-45.1)
\$24,001-\$40,000	73	3,224	23.7	(17.5-31.3)
\$40,001-\$60,000	45	2,916	21.0	(14.9-28.9)
\$60,001+	74	5,094	14.8	(11.5-18.7)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Table 16. Distribution of contraceptive behaviors at the time of conception,
MI PRAMS, 2017**

Contraceptive Practice Subtype	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Trying to conceive	803	54,412	51.1	(48.2-54.1)
Avoiding pregnancy	347	17,762	16.7	(14.6-19.0)
Neither trying nor avoiding pregnancy	711	34,203	32.2	(29.5-34.9)

Table 17. Prevalence of trying to conceive during the pre-pregnancy period by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	803	54,412	51.1	(48.2-54.1)
Maternal Age				
<20 Years	19	904	18.1**	(9.5-31.7)
20-29 Years	388	27,451	47.9	(43.8-52.0)
30+ Years	396	26,057	59.2	(54.6-63.6)
Race/Ethnicity				
White, non-Hispanic	452	40,039	57.4	(53.4-61.3)
Black, non-Hispanic	239	4,968	25.6	(22.6-28.7)
Hispanic	39	3,816	52.0	(39.0-64.8)
Asian/Pacific Islander, non-Hispanic	30	2,046	65.6	(47.3-80.2)
Other, non-Hispanic	41	3,386	54.3	(40.9-67.0)
Education				
<High School	46	2,244	23.0	(15.8-32.3)
HS Grad/GED	153	10,427	38.8	(33.0-45.0)
Some College	264	17,115	50.2	(44.9-55.4)
College Degree+	334	24,272	70.5	(65.5-75.0)
Pre-Pregnancy Insurance Status				
Uninsured	33	3,158	42.9	(30.5-56.3)
Medicaid/Public	201	10,083	31.2	(26.5-36.3)
Private	540	39,509	62.2	(58.4-65.9)
Marital Status				
Married	562	43,046	66.9	(63.0-70.5)
Other	241	11,366	27.1	(23.2-31.4)
Parity				
No previous live birth	308	20,946	51.5	(46.7-56.3)
1	291	19,936	57.0	(51.7-62.0)
2+	203	13,515	44.0	(38.6-49.6)
Last Year's Household Income				
<\$16,000	122	5,121	27.6	(21.9-34.1)
\$16,001-\$24,000	73	4,907	33.6	(26.0-42.2)
\$24,001-\$40,000	96	6,329	46.1	(37.6-54.8)
\$40,001-\$60,000	105	8,124	57.5	(48.9-65.7)
\$60,001+	341	26,147	75.1	(70.4-79.3)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 18. Prevalence of became pregnant despite using contraceptive practices by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	347	17,762	16.7	(14.6-19.0)
Maternal Age				
<20 Years	32	1,345	26.9	(16.8-40.2)
20-29 Years	200	9,990	17.4	(14.5-20.8)
30+ Years	115	6,428	14.6	(11.7-18.1)
Race/Ethnicity				
White, non-Hispanic	110	9,758	14.0	(11.4-17.1)
Black, non-Hispanic	201	4,569	23.5	(20.6-26.7)
Hispanic	15	1,726	23.5	(14.1-36.6)
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	14	1,073	17.2	(9.2-29.7)
Education				
<High School	45	2,158	22.1	(15.1-31.3)
HS Grad/GED	111	5,575	20.8	(16.3-26.1)
Some College	122	5,784	17.0	(13.4-21.3)
College Degree+	61	3,930	11.4	(8.5-15.2)
Pre-Pregnancy Insurance Status				
Uninsured	21	1,045	14.2	(8.0-24.0)
Medicaid/Public	165	7,844	24.3	(20.0-29.2)
Private	150	8,513	13.4	(11.0-16.3)
Marital Status				
Married	102	6,968	10.8	(8.6-13.5)
Other	245	10,795	25.7	(21.9-30.0)
Parity				
No previous live birth	125	6,129	15.1	(12.0-18.8)
1	103	5,722	16.4	(12.7-20.8)
2+	119	5,911	19.3	(15.3-23.9)
Last Year's Household Income				
<\$16,000	108	4,342	23.4	(18.1-29.7)
\$16,001-\$24,000	59	3,313	22.7	(16.4-30.6)
\$24,001-\$40,000	57	2,401	17.5	(12.2-24.5)
\$40,001-\$60,000	31	2,337	16.5	(11.0-24.1)
\$60,001+	46	3,012	8.7	(6.2-12.0)

*Data not shown due to small sample size and/or relative standard error > 50%.

Table 19. Prevalence of contraception methods used by women who became pregnant despite using contraceptive practices, MI PRAMS, 2017

Method	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reason (non-exclusive)				
Condoms	169	9,183	47.9	(41.0-54.9)
Withdrawal	110	6,263	32.7	(26.4-39.7)
Oral Contraceptives	93	4,555	23.8	(18.5-30.0)
Rhythm Method	31	2,227	11.6	(7.7-17.2)
Shot Every 3 Months	45	1,921	10.0	(6.7-14.8)
Contraceptive Patch	8	621	3.2**	(1.3-7.7)
Intrauterine Device	11	469	2.4**	(1.1-5.5)
Contraceptive Implant	*	*	*	*
Other	17	1,082	5.6**	(3.0-10.3)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 20. Prevalence of women who were not trying to conceive - but were not doing anything to prevent pregnancy - by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	711	34,203	32.2	(29.5-34.9)
Maternal Age				
<20 Years	74	2,751	55.0	(41.8-67.5)
20-29 Years	431	19,906	34.7	(31.0-38.6)
30+ Years	206	11,547	26.2	(22.4-30.5)
Race/Ethnicity				
White, non-Hispanic	212	19,929	28.6	(25.1-32.4)
Black, non-Hispanic	446	9,907	51.0	(47.4-54.5)
Hispanic	16	1,790	24.4	(14.6-38.0)
Asian/Pacific Islander, non-Hispanic	10	763	24.5**	(12.7-41.9)
Other, non-Hispanic	26	1,783	28.6	(18.1-41.9)
Education				
<High School	118	5,350	54.9	(45.1-64.2)
HS Grad/GED	248	10,848	40.4	(34.7-46.4)
Some College	245	11,195	32.8	(28.2-37.8)
College Degree+	88	6,241	18.1	(14.4-22.5)
Pre-Pregnancy Insurance Status				
Uninsured	45	3,153	42.9	(30.8-55.9)
Medicaid/Public	365	14,398	44.5	(39.5-49.7)
Private	275	15,471	24.4	(21.3-27.8)
Marital Status				
Married	197	14,349	22.3	(19.1-25.8)
Other	513	19,815	47.2	(42.8-51.7)
Parity				
No previous live births	275	13,572	33.4	(29.0-38.1)
1	191	9,338	26.7	(22.4-31.4)
2+	244	11,272	36.7	(31.7-42.1)
Last Year's Household Income				
<\$16,000	258	9,092	49.0	(42.4-55.6)
\$16,001-\$24,000	120	6,375	43.7	(35.5-52.2)
\$24,001-\$40,000	97	5,003	36.4	(28.7-44.9)
\$40,001-\$60,000	58	3,672	26.0	(19.3-34.0)
\$60,001+	74	5,644	16.2	(12.7-20.4)

*Data not shown due to small sample size and/or relative standard error > 50%.

Table 21. Reasons women who were not trying to conceive - but were not doing anything to prevent pregnancy - did not use contraception, MI PRAMS, 2017

Reason	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reason (non-exclusive)				
Didn't Mind Getting Pregnant	330	17,831	51.2	(46.2-56.3)
Thought Couldn't Get Pregnant at That Time	212	8,604	24.6	(20.7-29.0)
Partner Didn't Want to Use Birth Control	128	5,763	16.5	(13.1-20.5)
Side Effects from Birth Control	88	4,511	12.9	(9.9-16.6)
Forgot to Use Birth Control	88	3,758	10.7	(8.1-14.1)
Thought Self/Partner Sterile	61	2,752	7.9	(5.5-11.1)
Problems Getting Birth Control	37	1,526	4.4	(2.7-7.0)
Other Reason	80	4,043	11.6	(8.7-15.3)

Table 22. Prevalence of using any postpartum contraceptive method by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,435	84,750	80.4	(78.0-82.6)
Maternal Age				
<20 Years	94	3,948	80.7	(68.1-89.1)
20-29 Years	785	45,928	81.1	(77.8-84.0)
30+ Years	556	34,874	79.5	(75.6-82.9)
Race/Ethnicity				
White, non-Hispanic	624	57,400	82.1	(78.9-84.9)
Black, non-Hispanic	661	14,398	76.7	(73.5-79.6)
Hispanic	57	5,951	81.9	(69.2-90.1)
Asian/Pacific Islander, non-Hispanic	25	1,762	56.5	(39.3-72.3)
Other, non-Hispanic	63	4,781	81.9	(69.0-90.2)
Education				
<High School	154	7,656	80.1	(71.5-86.6)
HS Grad/GED	390	21,304	80.4	(75.2-84.7)
Some College	485	27,165	80.1	(75.6-83.9)
College Degree+	387	27,775	81.2	(76.9-84.8)
Pre-Pregnancy Insurance Status				
Uninsured	71	5,717	77.0	(64.9-85.9)
Medicaid/Public	558	25,756	80.8	(76.5-84.5)
Private	754	50,655	80.7	(77.5-83.5)
Marital Status				
Married	668	50,967	80.0	(76.7-82.9)
Other	767	33,784	81.1	(77.4-84.3)
Parity				
No previous live birth	533	31,832	79.0	(74.9-82.6)
1	462	28,690	81.9	(77.5-85.5)
2+	439	24,213	80.6	(75.9-84.6)
Last Year's Household Income				
<\$16,000	370	14,639	78.1	(72.3-83.0)
\$16,001-\$24,000	207	12,563	85.8	(79.3-90.5)
\$24,001-\$40,000	202	11,429	82.3	(75.1-87.8)
\$40,001-\$60,000	166	12,203	86.2	(79.4-91.0)
\$60,001+	356	26,768	76.8	(72.1-80.9)

**Table 23. Prevalence of postpartum contraceptive methods,
MI PRAMS, 2017**

Method	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Pregnancy prevention method (non-exclusive)				
Condoms	434	25,866	30.4	(27.4-33.6)
Oral Contraceptives	383	24,549	28.8	(25.9-32.0)
Intrauterine Device	215	13,165	15.5	(13.2-18.2)
Withdrawal	206	12,520	14.7	(12.5-17.3)
Abstinence	181	9,022	10.6	(8.8-12.8)
Tubal Ligation	138	7,889	9.3	(7.5-11.5)
Shot Every 3 Months	172	5,967	7.0	(5.7-8.6)
Rhythm Method	68	5,010	5.9	(4.4-7.8)
Partner Had Vasectomy	50	3,667	4.3	(3.1-5.9)
Contraceptive Implant	67	3,041	3.6	(2.5-5.1)
Contraceptive Patch or Vaginal Ring	29	1,357	1.6	(1.0-2.6)
Other Method	20	1,069	1.3**	(0.7-2.3)

****Relative standard error (RSE) exceeds 30%. Interpret with caution.**

Table 24. Prevalence of no postpartum contraceptive methods by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	398	20,665	19.6	(17.4-22.0)
Maternal Age				
<20 Years	26	945	19.3	(10.9-31.9)
20-29 Years	220	10,723	18.9	(16.0-22.2)
30+ Years	152	8,997	20.5	(17.1-24.4)
Race/Ethnicity				
White, non-Hispanic	148	12,506	17.9	(15.1-21.1)
Black, non-Hispanic	201	4,370	23.3	(20.4-26.5)
Hispanic	14	1,318	18.1	(9.9-30.8)
Asian/Pacific Islander, non-Hispanic	18	1,355	43.5	(27.7-60.7)
Other, non-Hispanic	15	1,058	18.1	(9.8-31.0)
Education				
<High School	49	1,900	19.9	(13.4-28.5)
HS Grad/GED	110	5,191	19.6	(15.3-24.8)
Some College	139	6,769	19.9	(16.1-24.4)
College Degree+	94	6,451	18.8	(15.2-23.1)
Pre-Pregnancy Insurance Status				
Uninsured	27	1,707	23.0	(14.1-35.1)
Medicaid/Public	158	6,121	19.2	(15.5-23.5)
Private	197	12,101	19.3	(16.5-22.5)
Marital Status				
Married	184	12,742	20.0	(17.1-23.3)
Other	213	7,883	18.9	(15.7-22.6)
Parity				
No previous live birth	168	8,451	21.0	(17.4-25.1)
1	117	6,355	18.1	(14.5-22.5)
2+	112	5,837	19.4	(15.4-24.1)
Last Year's Household Income				
<\$16,000	121	4,110	21.9	(17.0-27.7)
\$16,001-\$24,000	47	2,086	14.2	(9.5-20.7)
\$24,001-\$40,000	51	2,451	17.7	(12.2-24.9)
\$40,001-\$60,000	30	1,953	13.8	(9.0-20.6)
\$60,001+	105	8,081	23.2	(19.1-27.9)

**Table 25. Reasons for not using any postpartum contraception,
MI PRAMS, 2017**

Reason	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reason (non-exclusive)				
Doesn't Want to Use Birth Control	145	8,542	40.9	(34.6-47.5)
Side Effects from Birth Control	144	7,078	34.1	(28.3-40.5)
Not Having Sex	94	4,386	21.0	(16.2-26.7)
Wants to Get Pregnant	63	3,637	17.4	(12.9-23.2)
Partner Doesn't Want to Use Anything	50	2,519	12.1	(8.5-16.8)
Problems Getting Birth Control	11	676	3.2	(1.4-7.5)
Mother Had Tubes Tied	20	879	4.2**	(2.3-7.7)
Pregnant now	18	429	2.1	(1.1-3.7)
Other Reason	70	3,096	14.8	(11.0-19.7)

****Relative standard error (RSE) exceeds 30%. Interpret with caution.**

**Table 26. Trimester of entry into prenatal care,
MI PRAMS, 2017**

Trimester of entry	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
1st Trimester	1,534	90,885	86.4	(84.7-88.7)
2nd Trimester	268	12,110	11.5	(9.8-13.7)
3rd Trimester	31	1,783	1.7	(0.7-1.8)
No prenatal care	11	369	0.4**	(0.2-0.9)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 27. Source of payments for prenatal care,
MI PRAMS, 2017**

Source of prenatal care payment	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Source of payment (non-exclusive)				
Uninsured during pregnancy	13	750	0.7	(0.3-1.5)
Private - from work	719	49,496	47.8	(44.8-50.8)
Medicaid	976	46,519	44.9	(42.0-47.9)
Private- from parent	113	7,753	7.5	(5.9-9.4)
Private – from MI Health Insurance Marketplace	65	2,811	2.7	(2.0-3.7)
Other government	24	1,209	1.2	(0.7-2.1)
Private - TRICARE/other military	15	1,159	1.1**	(0.6-2.0)
Indian Health Services or other tribal	*	*	*	*
Other	113	5,116	4.9	(3.8-6.4)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 28. Prevalence of first trimester entry into prenatal care by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,534	90,885	86.4	(84.3-88.3)
Maternal Age				
<20 Years	90	3,793	76.0	(63.9-85.0)
20-29 Years	833	48,855	86.7	(83.9-89.1)
30+ Years	611	38,236	87.2	(83.6-90.1)
Race/Ethnicity				
White, non-Hispanic	692	62,309	90.2	(87.4-92.4)
Black, non-Hispanic	671	14,583	75.3	(72.0-78.3)
Hispanic	57	5,776	82.5**	(69.7-90.6)
Asian/Pacific Islander, non-Hispanic	37	2,568	84.1**	(63.8-94.1)
Other, non-Hispanic	72	5,294	86.0**	(73.5-93.1)
Education				
<High School	143	6,561	68.5	(58.9-76.7)
HS Grad/GED	389	21,673	80.1	(75.1-84.2)
Some College	530	29,095	87.1	(82.9-90.3)
College Degree+	455	32,523	95.9	(93.3-97.5)
Pre-Pregnancy Insurance Status				
Uninsured	870	58,708	93.8	(91.8-95.3)
Medicaid/Public	536	24,071	76.0	(71.3-80.2)
Private	72	5,745	75.7	(63.5-84.8)
Marital Status				
Married	765	57,258	90.2	(87.5-92.4)
Other	768	33,587	80.7	(77.0-83.8)
Parity				
No previous live birth	609	35,992	89.7	(86.4-92.2)
1	497	30,930	88.8	(85.1-91.7)
2+	426	23,926	79.3	(74.6-83.4)
Last Year's Household Income				
<\$16,000	352	13,571	72.9	(66.6-78.4)
\$16,001-\$24,000	205	11,836	80.8	(73.4-86.6)
\$24,001-\$40,000	212	11,754	86.6	(79.8-91.4)
\$40,001-\$60,000	174	12,756	91.1	(85.1-94.8)
\$60,001+	436	33,217	96.6	(94.0-98.1)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 29. Prevalence of getting prenatal care as early as wanted, MI PRAMS, 2017

Got care as early as wanted	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
No	294	16,068	15.2	(11.3-15.2)
Yes	1,561	89,961	84.8	(84.8-88.7)

Table 30. Prevalence of getting prenatal care as early as wanted by first trimester entry into prenatal care, MI PRAMS, 2017

Trimester of Entry to Prenatal Care	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
First Trimester				
Yes, started PNC as early as wanted	1,375	80,808	89.2	(87.0-91.1)
No, wanted to start PNC earlier	151	9,751	10.8	(8.9-13.0)
After First Trimester				
Yes, started PNC as early as wanted	154	7,350	55.2	(47.0-63.2)
No, wanted to start PNC earlier	135	5,959	44.8	(36.8-53.0)

Table 31. Barriers to starting prenatal care as early as wanted among women who began prenatal care during the first trimester, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Barrier (non-exclusive)				
Could not get appt	79	5,487	58.6	(48.1-68.4)
Doctor/health plan would not start	42	3,415	38.8	(28.8-49.9)
Did not know pregnant	47	2,295	27.0	(18.9-36.9)
Too many other things	17	1,140	13.3	(7.5-22.4)
No time off from work or school	9	663	7.8**	(3.7-15.7)
Not enough \$ to pay	14	628	7.3**	(3.6-14.4)
Wanted to keep pregnancy secret	9	435	5.1**	(2.1-12.0)
No transportation	11	246	2.9**	(1.5-5.6)
No Medicare card	*	*	*	*
Did not want PNC	*	*	*	*
No childcare	*	*	*	*

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 32. Barriers to starting prenatal care as early as wanted among women who began prenatal care after the first trimester, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Barrier (non-exclusive)				
Did not know pregnant	71	2,610	44.2	(33.0-56.1)
Could not get appt	45	1,996	36.7	(26.0-48.8)
Too many other things	37	1,554	27.9	(18.4-39.8)
No transportation	29	1,398	24.9	(15.8-36.9)
Doctor/health plan would not start	20	1,017	18.1	(10.3-29.8)
Could not get childcare	16	968	17.4	(9.4-29.8)
Not enough \$ or insurance to pay	20	881	15.8	(8.4-27.7)
Wanted to keep pregnancy secret	25	787	14.0**	(7.4-24.9)
No Medicaid card	12	578	10.1**	(4.6-20.8)
No time off from work or school	14	357	6.4**	(3.0-13.2)
Did not want PNC	9	289	5.2**	(1.9-13.3)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 33. Prevalence of topics discussed by health care provider during prenatal care visits, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Topic (non-exclusive)				
Smoking During Pregnancy	1,789	103,163	97.2	(96.2-98.0)
Using Prescription Medicine During Pregnancy	1,749	102,141	96.6	(95.6-97.3)
Using Alcohol During Pregnancy	1,775	102,134	96.5	(95.4-97.4)
Breastfeeding Plans	1,713	96,793	91.6	(89.7-93.1)
Using Illegal Drug During Pregnancy	1,610	90,870	86.0	(83.8-87.9)
Post-partum contraception plans	1,577	87,515	82.9	(80.6-85.0)
Feeling depressed	1,552	86,410	81.8	(79.4-84.0)
Experiencing emotional or physical abuse	1,513	83,949	79.5	(77.0-81.8)
Offered HIV testing	1,377	74,823	72.0	(69.2-74.6)
Knowledge of appropriate weight gain	1,055	59,538	56.9	(53.9-59.8)

Table 34. Prevalence of Pregnancy Complications, MI PRAMS, 2017

Pregnancy Complications	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Severe nausea, vomiting, dehydration	380	17,993	16.8	(14.7-19.1)
Depression	274	15,200	14.2	(12.2-16.5)
Kidney/Bladder Infection	264	14,552	13.6	(11.7-15.8)
High Blood Pressure	294	14,533	13.6	(11.7-15.7)
Gestational Diabetes w/o Pre-Pregnancy Diabetes	154	8,447	8.0	(6.5-9.8)

Table 35. Prevalence of smoking during the 3 months before pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	412	22,917	21.5	(19.1-24.1)
Maternal Age				
<20 Years	22	1,474	29.6	(18.4-43.9)
20-29 Years	261	14,691	25.7	(22.2-29.5)
30+ Years	129	6,751	15.2	(12.2-18.8)
Race/Ethnicity				
White, non-Hispanic	192	16,559	23.7	(20.4-27.3)
Black, non-Hispanic	192	4,280	21.8	(19.1-24.9)
Hispanic	8	946	12.9**	(6.0-25.4)
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	18	1,025	16.8**	(8.8-29.7)
Education				
<High School	80	3,822	39.5	(30.6-49.2)
HS Grad/GED	153	9,278	34.2	(28.6-40.3)
Some College	140	7,427	21.6	(17.6-26.4)
College Degree+	32	2,113	6.2	(4.1-9.3)
Pre-Pregnancy Insurance Status				
Uninsured	30	2,502	33.0	(22.0-46.1)
Medicaid/Public	248	11,200	34.5	(29.7-39.6)
Private	119	8,603	13.6	(11.0-16.7)
Marital Status				
Married	120	8,888	13.8	(11.2-17.0)
Other	292	14,028	33.2	(29.0-37.6)
Parity				
No previous live birth	127	7,986	19.7	(15.9-24.0)
1	123	7,033	20.0	(16.0-24.6)
2+	162	7,897	25.7	(21.2-30.8)
Last Year's Household Income				
<\$16,000	173	7,091	37.9	(31.7-44.5)
\$16,001-\$24,000	71	4,695	31.7	(24.2-40.2)
\$24,001-\$40,000	56	3,114	22.4	(16.0-30.4)
\$40,001-\$60,000	26	2,175	15.4	(9.9-23.2)
\$60,001+	43	3,098	8.9	(6.4-12.4)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 36. Prevalence of smoking during the last 3 months of pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	216	12,028	11.3	(9.5-13.4)
Maternal Age				
<20 Years	14	1,050	21.0	(11.4-35.5)
20-29 Years	138	7,545	13.2	(10.6-16.3)
30+ Years	64	3,432	7.8	(5.6-10.7)
Race/Ethnicity				
White, non-Hispanic	110	9,079	13.0	(10.5-16.0)
Black, non-Hispanic	91	1,920	9.8	(7.9-12.1)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	13	777	12.7**	(5.9-25.4)
Education				
<High School	54	2,957	30.6	(22.3-40.4)
HS Grad/GED	92	5,169	19.2	(14.8-24.5)
Some College	61	3,530	10.3	(7.4-14.2)
College Degree+	6	295	0.9**	(0.3-2.3)
Pregnancy Insurance Status				
Medicaid/Public	152	7,777	20.1	(16.3-24.5)
Private	41	3,033	5.1	(3.5-7.4)
Marital Status				
Married	47	3,288	5.1	(3.6-7.3)
Other	169	8,739	20.7	(17.1-24.8)
Parity				
No previous live birth	51	2,899	7.2	(5.0-10.2)
1	62	3,893	11.0	(8.0-15.1)
2+	103	5,236	17.1	(13.3-21.8)
Last Year's Household Income				
<\$16,000	105	4,742	25.5	(19.9-32.0)
\$16,001-\$24,000	35	2,124	14.3	(9.3-21.5)
\$24,001-\$40,000	27	1,533	11.0	(6.7-17.6)
\$40,001-\$60,000	13	1,178	8.4**	(4.5-15.1)
\$60,001+	11	745	2.2**	(1.1-4.3)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 37. Prevalence of smoking after pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	306	16,570	15.6	(13.5-17.9)
Maternal Age				
<20 Years	19	1,288	25.7	(15.2-40.1)
20-29 Years	197	10,659	18.6	(15.6-22.2)
30+ Years	90	4,623	10.4	(8.0-13.6)
Race/Ethnicity				
White, non-Hispanic	144	11,738	16.9	(14.0-20.1)
Black, non-Hispanic	140	3,115	15.9	(13.4-18.6)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	16	964	15.8**	(8.0-28.8)
Education				
<High School	65	3,092	31.9	(23.8-41.4)
HS Grad/GED	119	6,813	25.3	(20.3-31.0)
Some College	99	5,095	14.8	(11.4-19.1)
College Degree+	16	1,170	3.4**	(1.9-6.2)
Post Pregnancy Insurance Status				
Uninsured	8	434	9.3**	(3.4-23.2)
Medicaid/Public	211	10,891	27.7	(23.5-32.4)
Private	71	4,684	8.0	(6.0-10.6)
Marital Status				
Married	76	5,497	8.6	(6.5-11.2)
Other	230	11,073	26.2	(22.3-30.5)
Parity				
No previous live birth	80	4,502	11.1	(8.3-14.7)
1	98	5,692	16.1	(12.5-20.5)
2+	128	6,376	20.9	(16.7-25.7)
Last Year's Household Income				
<\$16,000	140	5,970	32.1	(26.1-38.7)
\$16,001-\$24,000	55	3,369	22.7	(16.3-30.7)
\$24,001-\$40,000	35	1,771	12.7	(8.0-19.6)
\$40,001-\$60,000	17	1,281	9.1	(5.2-15.6)
\$60,001+	24	1,656	4.8	(3.0-7.6)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 38. Prevalence of electronic cigarette usage during the 3 months before pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	49	3,150	3.0	(2.0-4.3)
Maternal Age				
<20 Years	*	*	*	*
20-29 Years	35	2,186	3.8	(2.4-5.9)
30+ Years	13	764	1.7**	(0.8-3.7)
Race/Ethnicity				
White, non-Hispanic	31	2,312	3.3	(2.1-5.1)
Black, non-Hispanic	12	259	1.3**	(0.7-2.5)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	8	326	3.3**	(1.4-7.7)
HS Grad/GED	13	1,301	4.8**	(2.5-9.0)
Some College	21	1,139	3.3**	(1.8-6.0)
College Degree+	*	*	*	*
Pre-Pregnancy Insurance Status				
Uninsured	*	*	*	*
Medicaid/Public	25	1,568	4.8	(2.8-8.1)
Private	17	1,295	2.1**	(1.1-3.8)
Marital Status				
Married	16	1,069	1.7**	(0.9-3.2)
Other	33	2,081	4.9	(3.1-7.8)
Parity				
No previous live birth	23	1,327	3.3	(1.9-5.7)
1	13	1,197	3.4**	(1.7-6.7)
2+	13	627	2.0**	(1.0-4.2)
Last Year's Household Income				
<\$16,000	21	1,576	8.4	(4.9-14.1)
\$16,001-\$24,000	7	502	3.4**	(1.3-8.6)
\$24,001-\$40,000	*	*	*	*
\$40,001-\$60,000	*	*	*	*
\$60,001+	*	*	*	*

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 39. Prevalence of electronic cigarette usage during the last 3 months of pregnancy
MI PRAMS, 2017**

E-cigarette Usage	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
No	1,850	105,723	99.2**	(97.9-99.4)
Yes	15	837	0.8**	(0.6-2.1)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 40. Prevalence of hookah usage in 2 years before survey completion by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	130	5,001	4.8	(3.8-6.0)
Maternal Age				
<20 Years	19	1,099	22.5	(12.8-36.5)
20-29 Years	82	2,862	5.1	(3.8-6.8)
30+ Years	29	1,040	2.4	(1.5-3.8)
Race/Ethnicity				
White, non-Hispanic	22	1,677	2.4	(1.5-4.0)
Black, non-Hispanic	101	2,474	12.7	(10.5-15.3)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	18	565	5.9**	(3.2-10.7)
HS Grad/GED	38	1,815	6.9	(4.4-10.6)
Some College	52	1,875	5.6	(3.8-8.1)
College Degree+	22	746	2.2	(1.3-3.8)
Pre-Pregnancy Insurance Status				
Uninsured	9	218	3.1**	(1.5-6.1)
Medicaid/Public	52	1,972	6.2	(4.1-9.0)
Private	63	2,456	3.9	(2.8-5.5)
Marital Status				
Married	29	1,606	2.5	(1.6-4.1)
Other	101	3,395	8.1	(6.2-10.6)
Parity				
No previous live birth	75	2,905	7.4	(5.4-10.0)
1	32	1,491	4.3	(2.6-7.0)
2+	23	605	2.0	(1.3-3.0)
Last Year's Household Income				
<\$16,000	45	1,528	8.2	(5.4-12.4)
\$16,001-\$24,000	21	1,219	8.5	(4.9-14.6)
\$24,001-\$40,000	23	650	4.7	(2.7-7.8)
\$40,001-\$60,000	11	467	3.4**	(1.4-8.2)
\$60,001+	17	770	2.2**	(1.2-4.1)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 41. Prevalence of marijuana or hash usage in 12 months before pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	274	13,163	12.6	(10.7-14.7)
Maternal Age				
<20 Years	24	1,366	27.8	(17.1-41.9)
20-29 Years	185	8,698	15.5	(12.7-18.7)
30+ Years	65	3,099	7.1	(5.2-9.6)
Race/Ethnicity				
White, non-Hispanic	94	8,175	11.8	(9.4-14.6)
Black, non-Hispanic	163	3,538	18.8	(16.2-21.8)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	12	993	17.7**	(8.8-32.2)
Education				
<High School	44	1,844	19.9	(13.2-28.8)
HS Grad/GED	91	4,573	17.4	(13.2-22.5)
Some College	101	4,904	14.5	(11.1-18.5)
College Degree+	37	1,821	5.3	(3.5-8.0)
Pre-Pregnancy Insurance Status				
Uninsured	20	1,143	15.6	(8.7-26.6)
Medicaid/Public	146	6,235	19.7	(15.8-24.3)
Private	102	5,684	9.1	(7.1-11.6)
Marital Status				
Married	57	3,192	5.0	(3.6-7.0)
Other	217	9,971	24.1	(20.3-28.3)
Parity				
No previous live birth	132	6,491	16.2	(13.0-20.0)
1	71	3,757	10.8	(7.9-14.6)
2+	71	2,915	9.8	(7.0-13.4)
Last Year's Household Income				
<\$16,000	127	4,646	24.8	(19.6-30.9)
\$16,001-\$24,000	39	2,713	18.7	(12.8-26.5)
\$24,001-\$40,000	29	1,409	10.1	(6.0-16.4)
\$40,001-\$60,000	20	1,218	8.8	(5.0-15.0)
\$60,001+	32	2,021	5.8	(3.9-8.7)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 42. Prevalence of marijuana or hash usage during pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	70	2,598	2.5	(1.8-3.5)
Maternal Age				
<20 Years	*	*	*	*
20-29 Years	52	1,919	3.4	(2.3-5.0)
30+ Years	14	361	0.8**	(0.4-1.7)
Race/Ethnicity				
White, non-Hispanic	20	1,417	2.0	(1.2-3.5)
Black, non-Hispanic	45	922	4.9	(3.6-6.7)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	17	481	5.2**	(2.6-10.2)
HS Grad/GED	23	1,093	4.2	(2.3-7.3)
Some College	26	751	2.2	(1.3-3.7)
College Degree+	*	*	*	*
Pregnancy Insurance Status				
Medicaid/Public	51	1,828	4.8	(3.2-7.1)
Private	9	602	1.0**	(0.5-2.3)
Marital Status				
Married	10	520	0.8	(0.4-1.8)
Other	60	2,078	5.0	(3.5-7.2)
Parity				
No previous live birth	26	1,220	3.0	(1.8-5.1)
1	17	655	1.9**	(0.9-3.8)
2+	27	723	2.4	(1.4-4.1)
Last Year's Household Income				
<\$16,000	44	1,469	7.9	(5.1-12.0)
\$16,001-\$24,000	10	470	3.2**	(1.4-7.2)
\$24,001-\$40,000	*	*	*	*
\$40,001-\$60,000	*	*	*	*
\$60,001+	*	*	*	*

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 43. Prevalence of marijuana or hash usage after pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	99	4,421	4.2	(3.2-5.6)
Maternal Age				
<20 Years	10	550	11.2**	(5.1-22.7)
20-29 Years	64	2,661	4.7	(3.3-6.7)
30+ Years	25	1,211	2.8	(1.6-4.8)
Race/Ethnicity				
White, non-Hispanic	32	2,598	3.7	(2.5-5.6)
Black, non-Hispanic	61	1,269	6.8	(5.2-8.8)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	20	760	8.2**	(4.3-15.2)
HS Grad/GED	33	1,364	5.2	(3.2-8.2)
Some College	34	1,682	5.0	(3.1-7.9)
College Degree+	11	607	1.8**	(0.9-3.7)
Post Pregnancy Insurance Status				
Uninsured	*	*	*	*
Medicaid/Public	68	2,953	7.7	(5.5-10.7)
Private	25	1,261	2.2	(1.3-3.6)
Marital Status				
Married	20	1,087	1.7	(1.0-3.0)
Other	79	3,335	8.1	(5.9-10.9)
Parity				
No previous live birth	38	1,698	4.2	(2.8-6.5)
1	28	1,520	4.4	(2.6-7.3)
2+	33	1,204	4.0	(2.4-6.6)
Last Year's Household Income				
<\$16,000	52	1,818	9.7	(6.5-14.3)
\$16,001-\$24,000	16	1,240	8.6	(4.8-15.0)
\$24,001-\$40,000	8	427	3.1**	(1.2-7.4)
\$40,001-\$60,000	5	308	2.2**	(0.7-6.5)
\$60,001+	7	430	1.2**	(0.5-2.9)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 44. Prevalence of opioid pain reliever usage in 12 months before pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	100	5,962	5.7	(4.4-7.3)
Maternal Age				
<20 Years	*	*	*	*
20-29 Years	48	2,510	4.5	(3.1-6.5)
30+ Years	47	3,352	7.6	(5.5-10.6)
Race/Ethnicity				
White, non-Hispanic	57	4,714	6.8	(5.1-9.1)
Black, non-Hispanic	38	743	3.9	(2.8-5.5)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	14	629	6.8**	(3.1-14.2)
HS Grad/GED	26	1,550	5.9	(3.6-9.6)
Some College	37	2,082	6.2	(4.1-9.3)
College Degree+	23	1,700	5.0	(3.1-7.8)
Pre-Pregnancy Insurance Status				
Uninsured	*	*	*	*
Medicaid/Public	47	2,154	6.9	(4.6-10.2)
Private	45	3,259	5.2	(3.7-7.3)
Marital Status				
Married	41	3,043	4.8	(3.4-6.8)
Other	59	2,919	7.1	(5.0-10.0)
Parity				
No previous live birth	31	1,619	4.1	(2.6-6.4)
1	33	2,105	6.1	(3.9-9.2)
2+	36	2,238	7.5	(5.0-11.0)
Last Year's Household Income				
<\$16,000	34	1,778	9.6	(6.0-14.8)
\$16,001-\$24,000	11	584	4.1**	(1.8-8.9)
\$24,001-\$40,000	16	573	4.1**	(2.2-7.7)
\$40,001-\$60,000	10	790	5.6**	(2.8-10.9)
\$60,001+	20	1,609	4.6	(2.8-7.4)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 45. Prevalence of opioid pain reliever usage during pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	62	3,728	3.6	(2.6-5.0)
Maternal Age				
<20 Years	*	*	*	*
20-29 Years	29	1,674	3.0	(1.8-5.0)
30+ Years	32	2,019	4.6	(3.0-7.1)
Race/Ethnicity				
White, non-Hispanic	31	2,441	3.5	(2.3-5.3)
Black, non-Hispanic	22	447	2.4	(1.5-3.7)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	*	*	*	*
HS Grad/GED	15	1,114	4.2**	(2.2-8.1)
Some College	22	1,129	3.3	(1.9-5.9)
College Degree+	17	992	2.9	(1.7-5.1)
Pregnancy Insurance Status				
Medicaid/Public	32	1,637	4.3	(2.6-7.2)
Private	28	2,060	3.5	(2.3-5.4)
Marital Status				
Married	28	2,084	3.3	(2.1-5.1)
Other	34	1,643	4.0	(2.4-6.5)
Parity				
No previous live birth	20	1,004	2.5**	(1.4-4.7)
1	18	1,167	3.4**	(1.8-6.2)
2+	24	1,556	5.2	(3.1-8.5)
Last Year's Household Income				
<\$16,000	16	909	4.9**	(2.4-9.7)
\$16,001-\$24,000	9	409	2.8**	(1.1-7.0)
\$24,001-\$40,000	8	320	2.3**	(0.9-5.8)
\$40,001-\$60,000	*	*	*	*
\$60,001+	18	1,393	4.0**	(2.3-6.8)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 46. Prevalence of opioid pain reliever usage after pregnancy by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	330	19,914	19.0	(16.7-21.6)
Maternal Age				
<20 Years	10	524	11.0**	(4.4-24.6)
20-29 Years	157	9,550	17.0	(14.1-20.5)
30+ Years	163	9,840	22.5	(18.8-26.6)
Race/Ethnicity		328	19,741	19.0
White, non-Hispanic	176	14,297	20.6	(17.6-24.0)
Black, non-Hispanic	113	2,358	12.6	(10.4-15.1)
Hispanic	7	738	10.2**	(4.4-21.9)
Asian/Pacific Islander, non-Hispanic	12	936	30.2	(17.0-47.8)
Other, non-Hispanic	20	1,413	25.1	(14.9-39.2)
Education				
<High School	29	1,479	15.9	(9.6-25.3)
HS Grad/GED	72	4,514	17.2	(12.8-22.6)
Some College	115	6,331	18.8	(14.9-23.4)
College Degree+	109	7,156	20.9	(17.1-25.4)
Post Pregnancy Insurance Status				
Uninsured	7	739	16.4**	(6.8-34.5)
Medicaid/Public	137	7,134	18.7	(15.0-23.1)
Private	172	11,190	19.2	(16.3-22.6)
Marital Status				
Married	177	12,168	19.2	(16.3-22.5)
Other	153	7,746	18.8	(15.3-22.9)
Parity				
No previous live birth	121	7,456	18.7	(15.2-22.9)
1	96	6,097	17.5	(13.8-21.9)
2+	112	6,340	21.2	(16.9-26.2)
Last Year's Household Income				
<\$16,000	74	3,460	18.6	(13.6-25.0)
\$16,001-\$24,000	42	2,545	17.5	(11.9-25.0)
\$24,001-\$40,000	44	2,283	16.4	(11.2-23.4)
\$40,001-\$60,000	35	3,012	21.5	(15.1-29.7)
\$60,001+	108	7,001	20.1	(16.4-24.4)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 47. Distribution of delivery methods,
MI PRAMS, 2017**

Method	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Vaginal	1,200	72,353	67.0	(64.3-69.7)
First C-section	441	21,535	20.0	(17.8-22.3)
Repeat C-Section	229	12,700	11.8	(10.0-13.8)
Forceps delivery	*	*	*	*
Vacuum delivery	25	1,378	1.3	(0.8-2.1)

*Data not shown due to small sample size and/or relative standard error > 50%.

Table 48. Prevalence of low birthweight[^] by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	343	8,478	7.9	(7.6-8.1)
Maternal Age				
<20 Years	15	409	8.2	(4.6-14.2)
20-29 Years	177	4,741	8.2	(7.3-9.2)
30+ Years	151	3,327	7.4	(6.5-8.4)
Race/Ethnicity				
White, non-Hispanic	201	4,547	6.4	(5.9-7.0)
Black, non-Hispanic	93	2,771	13.9	(11.8-16.3)
Hispanic	12	276	3.7**	(2.1-6.7)
Asian/Pacific Islander, non-Hispanic	15	322	10.2	(5.9-17.3)
Other, non-Hispanic	20	502	8.0	(5.0-12.8)
Education				
<High School	36	1,151	11.5	(8.1-16.1)
HS Grad/GED	102	2,584	9.4	(7.8-11.4)
Some College	101	2,458	7.1	(6.0-8.5)
College Degree+	98	2,119	6.1	(5.1-7.3)
Pregnancy Insurance Status				
Medicaid/Public	146	3,891	9.9	(8.6-11.5)
Private	166	3,741	6.2	(5.6-7.0)
Marital Status				
Married	165	3,682	5.7	(5.1-6.4)
Other	177	4,756	11.1	(9.8-12.5)
Parity				
No previous live birth	149	3,629	8.9	(7.7-10.2)
1	88	2,142	6.0	(4.9-7.3)
2+	105	2,686	8.6	(7.2-10.3)
Last Year's Household Income				
<\$16,000	92	2,480	13.1	(10.7-16.0)
\$16,001-\$24,000	42	1,080	7.3	(5.3-10.0)
\$24,001-\$40,000	40	931	6.7	(4.8-9.1)
\$40,001-\$60,000	40	894	6.3	(4.6-8.6)
\$60,001+	87	1,883	5.4	(4.5-6.5)

[^]Low birthweight infants are defined by the World Health Organization as infants weighing less than 2,500 grams at birth.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 49. Distribution of low birthweight subcategories[^] among low birthweight infants, MI PRAMS, 2017

Low Birthweight Subcategory	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total Prevalence	343	8,478	7.9	(7.6-8.1)
Very low birthweight	64	1,664	19.6	(15.6-24.4)
Moderately low birthweight	279	6,815	80.4	(75.6-84.4)

[^]Very low birthweight = birthweight < 1,500g; moderately low birthweight = 1,500g <= birthweight <2,500g

Table 50. Prevalence of low birthweight[^] by smoking status during last three months of pregnancy, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	343	8,478	7.9	(7.6-8.1)
Smoking status				
Did not smoke in last 3 months of pregnancy	279	6,795	7.2	(6.8-7.7)
Smoked last 3 months of pregnancy	LBW	59	1,558	13.0

[^]Low birthweight infants are defined by the World Health Organization as infants weighing less than 2,500 grams at birth.

Table 51. Prevalence of high birthweight[^] by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	112	9,154	8.5	(6.9-10.4)
Maternal Age				
<20 Years	*	*	*	*
20-29 Years	57	4,978	8.6	(6.4-11.4)
30+ Years	51	3,882	8.7	(6.3-11.7)
Race/Ethnicity				
White, non-Hispanic	64	7,308	10.3	(8.1-13.1)
Black, non-Hispanic	38	742	3.7	(2.6-5.2)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	7	753	12.1**	(5.5-24.4)
Education				
<High School	7	447	4.5**	(1.7-11.3)
HS Grad/GED	25	2,083	7.6	(4.8-11.9)
Some College	44	3,431	9.9	(7.0-13.9)
College Degree+	36	3,192	9.2	(6.5-12.8)
Pregnancy Insurance Status				
Medicaid/Public	36	2,923	7.5	(4.9-11.1)
Private	71	5,761	9.6	(7.5-12.3)
Marital Status				
Married	67	6,319	9.7	(7.5-12.5)
Other	45	2,835	6.6	(4.5-9.5)
Parity				
No previous live birth	39	3,206	7.8	(5.6-10.9)
1	34	2,645	7.4	(5.0-10.9)
2+	39	3,304	10.5	(7.3-15.0)
Last Year's Household Income				
<\$16,000	15	743	3.9**	(1.9-7.9)
\$16,001-\$24,000	17	1,526	10.3	(5.9-17.3)
\$24,001-\$40,000	22	1,593	11.4	(6.7-18.9)
\$40,001-\$60,000	12	1,225	8.6	(4.6-15.7)
\$60,001+	38	3,424	9.8	(7.1-13.4)

[^]High birthweight infants are defined by the World Health Organization as infants weighing more than 4,000 grams at birth.

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 52. Prevalence of high birthweight[^] by diabetes before pregnancy or gestational diabetes, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	112	9,154	8.5	(6.9-10.4)
Diabetes status				
No diabetes before or during pregnancy	96	7,825	8.4	(6.7-10.5)
Diabetes before pregnancy	*	*	*	*
Gestational diabetes	10	862	10.2**	(4.9-20.1)

[^]High birthweight infants are defined by the World Health Organization as infants weighing more than 4,000 grams at birth.

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 53. Distribution of infant birthweights and gestational ages[^], MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Infant both low birthweight and preterm	222	5,432	5.0	(4.6-5.5)
Infant low birthweight and term	121	3,047	2.8	(2.4-3.3)
Infant not low birthweight, yes preterm	62	3,769	3.5	(2.5-4.8)
Infant not low birthweight, yes term	1,492	95,694	88.7	(87.4-89.8)

[^]Low birthweight infants are defined by the World Health Organization as infants weighing less than 2,500 grams at birth; preterm birth is defined by the World Health Organization as the birth of an infant before 37 weeks of pregnancy.

Gestational weeks is obtained from the Michigan birth certificate - obstetric estimate of gestation variable.

**Table 54. Prevalence of preterm birth[^] by maternal characteristics,
MI PRAMS, 2017**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	284	9,200	8.5	(7.4-9.8)
Maternal Age				
<20 Years	11	444	8.8**	(3.8-19.1)
20-29 Years	136	4,950	8.5	(6.8-10.6)
30+ Years	137	3,806	8.5	(6.9-10.4)
Race/Ethnicity				
White, non-Hispanic	152	5,489	7.8	(6.3-9.6)
Black, non-Hispanic	96	2,547	12.8	(10.6-15.3)
Hispanic	10	423	5.7**	(2.4-13.1)
Asian/Pacific Islander, non-Hispanic	10	279	8.9**	(4.1-18.3)
Other, non-Hispanic	15	423	6.8**	(3.1-14.2)
Education				
<High School	29	819	8.2	(5.5-12.1)
HS Grad/GED	81	2,949	10.7	(8.0-14.3)
Some College	84	2,775	8.0	(5.9-10.8)
College Degree+	83	2,453	7.1	(5.4-9.1)
Pregnancy Insurance Status				
Medicaid/Public	111	3,187	8.1	(6.5-10.1)
Private	142	4,889	8.1	(6.5-10.1)
Marital Status				
Married	136	4,474	6.9	(5.5-8.6)
Other	147	4,687	10.9	(8.9-13.3)
Parity				
No previous live birth	107	3,506	8.6	(6.6-11.0)
1	79	2,861	8.0	(6.0-10.7)
2+	97	2,812	9.0	(7.1-11.3)
Last Year's Household Income				
<\$16,000	72	2,285	12.1	(8.9-16.3)
\$16,001-\$24,000	42	1,315	8.9	(6.0-12.9)
\$24,001-\$40,000	36	1,051	7.5	(4.8-11.7)
\$40,001-\$60,000	28	909	6.4	(3.9-10.4)
\$60,001+	78	2,543	7.3	(5.5-9.6)

[^]Preterm birth is defined by the World Health Organization as the birth of an infant before 37 weeks of pregnancy. Gestational weeks is obtained from the Michigan birth certificate - obstetric estimate of gestation variable.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 55. Breastfeeding duration categories,
MI PRAMS, 2017**

Breastfeeding duration categories	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Did not Breastfeed	290	12,950	12.3	(10.5-14.3)
Breastfed at least 4 weeks	1,267	78,024	74.2	(71.5-76.7)
Breastfed at least 8 weeks	1,070	67,912	64.6	(61.7-67.4)
Breastfed at least 12 weeks	865	56,161	56.9	(53.8-59.9)

**Table 56. Reasons for not initiating breastfeeding,
MI PRAMS, 2017**

Reasons for not initiating breastfeeding	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reasons (non-exclusive)				
Mom did not want to breastfeed	146	6,885	50.6	(42.6-58.6)
Mom did not like breastfeeding	93	3,812	28.1	(21.5-35.8)
Mom returned to work	55	3,009	22.1	(16.0-29.7)
Mom had other children to take care of	59	2,558	18.8	(13.4-25.7)
Mom tried but it was too hard	56	2,155	15.9	(11.1-22.2)
Mom had too many other household duties	31	1,408	10.3	(6.4-16.3)
Mom was sick or on medicine	36	1,349	9.9	(6.1-15.7)
Mom returned to school	13	367	2.7**	(1.3-5.6)
Baby was in the hospital	14	333	2.4	(1.4-4.2)
Other	47	2,154	15.8	(10.9-22.3)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 57. Cumulative number of reasons for not initiating breastfeeding,
MI PRAMS, 2017**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-1 reason	162	7,464	54.9	(46.8-62.7)
2 reasons	59	2,852	21.0	(15.0-28.4)
3 reasons	40	2,039	15.0	(10.1-21.7)
4+ reasons	37	1,253	9.2	(5.8-14.3)

Table 58. Prevalence of breastfeeding initiation by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,532	92,233	87.7	(85.7-89.5)
Maternal Age				
<20 Years	96	4,267	88.0	(81.6-92.4)
20-29 Years	807	47,655	84.5	(81.3-87.2)
30+ Years	629	40,312	91.8	(88.9-93.9)
Race/Ethnicity				
White, non-Hispanic	687	62,582	90.1	(87.4-92.3)
Black, non-Hispanic	664	14,508	77.2	(74.0-80.0)
Hispanic	61	6,247	85.2**	(73.5-92.3)
Asian/Pacific Islander, non-Hispanic	42	2,917	92.9**	(68.4-98.8)
Other, non-Hispanic	71	5,462	91.8**	(81.0-96.7)
Education				
<High School	144	7,032	75.1	(65.9-82.5)
HS Grad/GED	361	20,125	75.5	(70.1-80.2)
Some College	539	30,188	89.7	(86.0-92.5)
College Degree+	469	33,819	98.4	(96.8-99.2)
Post Pregnancy Insurance Status				
Uninsured	*	*	*	*
Medicaid/Public	632	30,077	78.8	(74.6-82.4)
Private	790	54,672	93.4	(91.2-95.1)
Marital Status				
Married	787	59,105	92.8	(90.3-94.6)
Other	745	33,128	79.9	(76.2-83.1)
Parity				
No previous live birth	619	37,126	91.9	(89.1-94.0)
1	484	30,467	86.8	(83.0-89.9)
2+	427	24,603	82.9	(78.4-86.7)
Last Year's Household Income				
<\$16,000	337	12,530	68.8	(62.1-74.8)
\$16,001-\$24,000	211	12,663	85.6	(79.0-90.4)
\$24,001-\$40,000	219	12,039	88.8	(82.7-92.9)
\$40,001-\$60,000	180	13,176	94.1**	(88.8-97.0)
\$60,001+	445	34,034	98.1**	(96.3-99.1)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 59. Prevalence of 1-month breastfeeding duration by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,267	78,024	74.2	(71.5-76.7)
Maternal Age				
<20 Years	59	2,617	54.2	(41.1-66.7)
20-29 Years	658	40,122	71.2	(67.3-74.8)
30+ Years	550	35,285	80.3	(76.4-83.7)
Race/Ethnicity				
White, non-Hispanic	607	54,764	78.9	(75.3-82.0)
Black, non-Hispanic	507	10,947	58.4	(54.8-61.8)
Hispanic	46	4,540	61.9	(48.4-73.8)
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	60	4,507	75.7	(62.0-85.6)
Education				
<High School	89	4,425	47.3	(37.7-57.2)
HS Grad/GED	262	14,960	56.2	(50.1-62.2)
Some College	455	25,545	75.9	(71.1-80.1)
College Degree+	445	32,226	93.8	(91.0-95.7)
Post Pregnancy Insurance Status				
Uninsured	41	3,681	79.8**	(62.7-90.3)
Medicaid/Public	477	23,200	60.8	(55.9-65.5)
Private	698	48,459	82.8	(79.5-85.7)
Marital Status				
Married	716	52,926	83.1	(79.7-86.0)
Other	551	25,099	60.6	(56.1-64.9)
Parity				
No previous live birth	505	30,702	76.0	(71.7-79.9)
1	404	26,006	74.2	(69.4-78.5)
2+	356	21,280	71.7	(66.5-76.4)
Last Year's Household Income				
<\$16,000	243	9,253	50.9	(44.1-57.6)
\$16,001-\$24,000	161	9,791	66.2	(57.9-73.6)
\$24,001-\$40,000	191	10,425	76.9	(69.0-83.2)
\$40,001-\$60,000	152	11,043	78.9	(70.9-85.2)
\$60,001+	411	31,382	90.5	(87.0-93.1)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 60. Prevalence of 2-month breastfeeding duration by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,070	67,912	64.6	(61.7-67.4)
Maternal Age				
<20 Years	45	1,998	41.3	(28.9-55.0)
20-29 Years	541	33,357	59.2	(55.0-63.2)
30+ Years	484	32,557	74.1	(70.0-77.9)
Race/Ethnicity				
White, non-Hispanic	528	48,025	69.2	(65.3-72.8)
Black, non-Hispanic	406	8,915	47.5	(44.0-51.1)
Hispanic	36	3,470	47.3	(34.6-60.3)
Asian/Pacific Islander, non-Hispanic	40	2,874	91.6**	(70.0-98.1)
Other, non-Hispanic	55	4,288	72.0	(58.4-82.6)
Education				
<High School	67	3,364	36.0	(27.1-46.0)
HS Grad/GED	202	11,932	44.8	(38.8-51.0)
Some College	379	21,499	63.9	(58.6-68.8)
College Degree+	408	30,317	88.2	(84.6-91.0)
Post Pregnancy Insurance Status				
Uninsured	40	3,653	79.2**	(62.3-89.8)
Medicaid/Public	369	18,536	48.6	(43.6-53.5)
Private	615	43,435	74.2	(70.5-77.6)
Marital Status				
Married	642	48,368	75.9	(72.2-79.2)
Other	428	19,544	47.2	(42.6-51.8)
Parity				
No previous live birth	425	26,429	65.4	(60.7-69.9)
1	343	22,681	64.7	(59.5-69.6)
2+	300	18,764	63.2	(57.8-68.4)
Last Year's Household Income				
<\$16,000	186	7,397	40.7	(34.2-47.5)
\$16,001-\$24,000	128	7,366	49.8	(41.4-58.2)
\$24,001-\$40,000	163	9,329	68.8	(60.5-76.1)
\$40,001-\$60,000	132	9,754	69.7	(61.1-77.1)
\$60,001+	372	28,756	82.9	(78.7-86.5)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 61. Prevalence of 3-month breastfeeding duration by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	865	56,161	56.9	(53.8-59.9)
Maternal Age				
<20 Years	25	1,168	24.7	(14.5-38.7)
20-29 Years	422	26,611	50.4	(46.1-54.6)
30+ Years	418	28,382	68.9	(64.5-73.1)
Race/Ethnicity				
White, non-Hispanic	438	40,322	62.6	(58.5-66.5)
Black, non-Hispanic	313	6,794	38.1	(34.6-41.7)
Hispanic	31	2,987	42.9	(30.3-56.4)
Asian/Pacific Islander, non-Hispanic	36	2,451	80.3**	(60.2-91.6)
Other, non-Hispanic	42	3,267	54.9	(41.1-67.9)
Education				
<High School	42	2,357	26.2	(18.1-36.4)
HS Grad/GED	140	8,509	34.2	(28.4-40.6)
Some College	303	17,806	55.9	(50.4-61.2)
College Degree+	367	26,715	83.7	(79.5-87.2)
Post Pregnancy Insurance Status				
Uninsured	30	2,787	64.9	(47.3-79.2)
Medicaid/Public	267	13,651	37.7	(32.8-42.8)
Private	529	37,799	69.3	(65.4-73.0)
Marital Status				
Married	561	41,932	70.3	(66.3-74.0)
Other	304	14,228	36.4	(31.9-41.1)
Parity				
No previous live birth	330	21,366	57.0	(52.0-61.8)
1	284	19,154	57.7	(52.2-62.9)
2+	250	15,626	55.7	(50.0-61.3)
Last Year's Household Income				
<\$16,000	115	4,252	25.5	(19.8-32.1)
\$16,001-\$24,000	98	5,905	42.1	(33.9-50.8)
\$24,001-\$40,000	130	7,469	58.1	(49.2-66.5)
\$40,001-\$60,000	112	8,359	65.7	(56.9-73.6)
\$60,001+	332	25,453	78.1	(73.3-82.2)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 62. Reasons for stopping breastfeeding,
MI PRAMS, 2017**

Reasons (non-exclusive)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Wasn't Producing Enough Milk	395	22,838	58.2	(53.4-62.9)
Breastmilk Didn't Satisfy Baby	215	14,904	38.2	(33.5-43.2)
Baby Had Difficulty Nursing or Latching	239	13,032	33.3	(28.8-38.2)
Nipples Were Sore, Cracked, or Bleeding	168	7,954	20.3	(16.8-24.3)
Went Back to Work	163	7,167	18.3	(14.9-22.2)
Too Many Household Duties	129	7,272	18.5	(15.0-22.7)
It Was Right Time to Stop	92	4,296	11.0	(8.3-14.3)
Baby Wasn't Gaining Weight	114	6,531	16.8	(13.3-20.9)
I Was Sick	60	2,521	6.4	(4.4-9.2)
Baby Was Jaundiced	53	2,876	7.4	(5.2-10.4)
Went Back to School	36	1,307	3.3	(2.0-5.4)
Partner Didn't Support	16	813	2.1**	(1.0-4.2)
Other	121	6,562	16.7	(13.4-20.7)

****Relative standard error (RSE) exceeds 30%. Interpret with caution.**

**Table 63. Breastfeeding information sources before or after delivery,
MI PRAMS, 2017**

Breastfeeding information source	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Information sources (non-exclusive)				
Mom's doctor	1,516	85,040	81.5	(78.9-83.8)
Nurse or midwife	1,331	75,503	73.2	(70.4-75.8)
Breastfeeding or lactation specialist	1,327	74,623	72.4	(69.6-75.1)
Baby's doctor	1,269	69,776	67.7	(64.8-70.5)
Family or friends	1,101	65,365	63.4	(60.4-66.2)
Breastfeeding support group	466	23,274	22.8	(20.4-25.4)
Hotline or toll-free number	264	12,719	12.5	(10.7-14.6)
Other	199	11,283	13.6	(11.5-16.1)

**Table 64. Total number of breastfeeding information sources,
MI PRAMS, 2017**

Number of sources of breastfeeding information	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-1	150	9,801	9.3	(7.7-11.3)
2-3	477	29,537	28.1	(25.4-30.9)
4-5	826	47,107	44.8	(41.8-47.8)
6+	370	18,776	17.8	(15.7-20.2)

**Table 65. Did mother ever use a breast pump,
MI PRAMS, 2017**

Breast pump usage	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,333	81,128	88.6	(86.3-90.5)
No	192	10,456	11.4	(9.5-13.7)

**Table 66. Source of breast pump,
MI PRAMS, 2017**

Source of breast pump	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Breast Pump Source (non-exclusive)				
Free from hospital	490	25,547	31.0	(28.0-34.2)
Bought new from store or online	218	14,063	17.1	(14.7-19.8)
Had one from previous child	163	12,827	15.6	(13.2-18.3)
Previously used by someone else	93	7,212	8.8	(6.9-11.1)
New as a gift	81	4,659	5.7	(4.3-7.5)
Bought new from hospital or doctor's office	65	3,881	4.7	(3.5-6.4)
New from WIC	80	3,089	3.8	(2.7-5.2)
Rented from hospital or doctor's office	30	1,246	1.5	(1.0-2.4)
Other	423	26,882	32.7	(29.6-36.0)

Table 67. Prevalence of ever using a breast pump by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,333	81,128	88.6	(86.3-90.5)
Maternal Age				
<20 Years	66	3,001	71.0	(56.2-82.4)
20-29 Years	697	41,633	88.2	(84.8-90.8)
30+ Years	570	36,493	90.9	(87.7-93.4)
Race/Ethnicity				
White, non-Hispanic	642	57,996	93.1	(90.5-95.0)
Black, non-Hispanic	548	12,046	82.7	(79.4-85.5)
Hispanic	44	4,111	70.5	(55.4-82.2)
Asian/Pacific Islander, non-Hispanic	35	2,283	78.3**	(60.0-89.6)
Other, non-Hispanic	59	4,353	80.0	(66.2-89.1)
Education				
<High School	97	4,750	70.2	(58.5-79.7)
HS Grad/GED	287	15,729	78.1	(71.4-83.6)
Some College	490	27,787	92.6	(89.3-95.0)
College Degree+	445	32,061	95.4	(92.7-97.1)
Post Pregnancy Insurance Status				
Uninsured	37	3,246	77.0**	(59.2-88.5)
Medicaid/Public	519	24,718	83.2	(78.6-86.9)
Private	731	50,500	92.7**	(90.1-94.7)
Marital Status				
Married	721	53,390	91.0	(88.1-93.2)
Other	612	27,737	84.3	(80.3-87.7)
Parity				
No previous live birth	547	33,223	89.9	(86.3-92.7)
1	430	27,453	90.8	(87.0-93.5)
2+	354	20,415	83.8	(78.6-87.9)
Last Year's Household Income				
<\$16,000	264	10,232	81.5	(75.0-86.6)
\$16,001-\$24,000	177	10,252	83.4	(75.0-89.4)
\$24,001-\$40,000	198	10,552	88.3	(80.2-93.3)
\$40,001-\$60,000	162	11,904	91.3	(85.0-95.1)
\$60,001+	425	32,432	95.5	(92.7-97.2)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 68. Baby health indicators,
MI PRAMS, 2017**

Health Indicators	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Baby got breast milk from source other than mom	193	9,044	8.7	(7.2-10.5)
Baby has a doctor, nurse, or medical practice where he or she is seen on a regular basis	1,604	95,641	92.6	(91.0-94.0)
Baby will see a dentist by his or her first birthday	1,217	65,232	66.1	(63.1-69.0)

**Table 69. Distribution of WIC status during pregnancy,
MI PRAMS, 2017**

WIC Status	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
^No	968	66,319	62.0	(59.2-64.8)
Yes	905	40,624	38.0	(35.2-40.8)

^ This variable is for any WIC participation. Women in the "no" category may or may not have qualified for WIC during pregnancy.

**Table 70. How often infant slept alone in his/her own bed over last two weeks,
MI PRAMS, 2017**

Baby Sleep - Alone	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Always	1,106	69,437	66.7	(63.8-69.4)
Often/Almost Always	308	16,704	16.0	(14.0-18.4)
Sometimes	183	7,767	7.5	(6.1-9.1)
Rarely	91	4,138	4.0	(3.0-5.2)
Never	116	6,127	5.9	(4.7-7.4)

**Table 71. Infant slept in his/her own crib or bed in mother's room,
MI PRAMS, 2017**

Baby in Room with Mom	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,380	75,232	77.6	(74.8-80.1)
No	292	21,778	22.4	(19.9-25.2)

**Table 72. Infant sleep space characteristics,
MI PRAMS, 2017**

Baby Sleep Space	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Characteristics (non-exclusive)				
Crib/Bassinet	1,670	97,123	93.3	(91.6-94.6)
Car Seat/Swing	833	49,852	49.0	(45.9-52.0)
Sleep Sack/Wearable Blanket	650	44,648	43.9	(40.9-47.0)
With Blanket	648	36,375	36.0	(33.1-39.0)
Mattress/Bed	467	20,572	20.3	(18.1-22.7)
With Bumper Pads	176	10,433	10.3	(8.6-12.4)
Couch/Sofa	160	7,414	7.3	(5.9-9.0)
With Toys, Cushions, Pillows	106	5,275	5.2	(4.0-6.7)

**Table 73. Primary infant sleep position,
MI PRAMS, 2017**

Primary Infant Sleep Position	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Back	1,430	87,247	83.3	(81.1-85.4)
Stomach	150	6,430	6.1	(4.9-7.6)
Side	155	7,820	7.5	(6.0-9.2)
Side/Back	41	1,991	1.9	(1.2-2.9)
Side/Stomach	*	*	*	*
Back/Stomach	12	492	0.5**	(0.2-1.0)
All 3 Positions	13	537	0.5**	(0.3-1.0)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 74. Prevalence of infant always or often sleeping alone in his/her own crib or bed in the last two weeks by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,414	86,141	82.7	(80.4-84.8)
Maternal Age				
<20 Years	89	3,967	84.6	(77.3-89.9)
20-29 Years	780	46,931	83.7	(80.5-86.4)
30+ Years	545	35,243	81.2	(77.4-84.5)
Race/Ethnicity				
White, non-Hispanic	641	59,691	86.7	(83.8-89.2)
Black, non-Hispanic	624	13,622	72.7	(69.4-75.8)
Hispanic	60	6,254	85.3**	(73.5-92.4)
Asian/Pacific Islander, non-Hispanic	29	2,010	64.0	(46.8-78.3)
Other, non-Hispanic	56	4,368	77.1	(63.4-86.8)
Education				
<High School	161	7,989	85.9	(78.5-91.1)
HS Grad/GED	380	21,509	82.1	(77.2-86.2)
Some College	469	27,047	81.1	(77.0-84.7)
College Degree+	391	28,829	84.1	(79.9-87.6)
Post Pregnancy Insurance Status				
Uninsured	36	3,270	71.5	(54.3-84.1)
Medicaid/Public	648	31,591	83.9	(80.3-87.0)
Private	676	48,317	82.9	(79.8-85.7)
Marital Status				
Married	677	52,365	83.0	(79.8-85.8)
Other	737	33,776	82.3	(79.0-85.1)
Parity				
No previous live birth	524	32,319	81.0	(77.2-84.3)
1	461	29,620	84.4	(80.5-87.7)
2+	427	24,165	82.9	(78.2-86.8)
Last Year's Household Income				
<\$16,000	379	15,981	88.0	(84.2-91.0)
\$16,001-\$24,000	197	12,011	82.2	(75.0-87.7)
\$24,001-\$40,000	181	10,857	80.2	(73.2-85.7)
\$40,001-\$60,000	149	11,360	81.4	(73.6-87.3)
\$60,001+	369	28,669	83.0	(78.8-86.4)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 75. Prevalence of infant sleeping alone in his/her own crib or bed in the same room as mother by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,380	75,232	77.6	(74.8-80.1)
Maternal Age				
<20 Years	103	3,912	86.7**	(73.0-94.0)
20-29 Years	774	41,717	79.4	(75.5-82.8)
30+ Years	503	29,602	74.1	(69.6-78.1)
Race/Ethnicity				
White, non-Hispanic	511	46,363	72.0	(68.2-75.6)
Black, non-Hispanic	714	15,451	89.4	(86.8-91.5)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	54	4,148	80.4**	(66.1-89.6)
Education				
<High School	178	8,183	89.7**	(80.5-94.8)
HS Grad/GED	403	20,762	84.4	(78.8-88.8)
Some College	469	24,234	79.8	(74.8-84.0)
College Degree+	314	21,309	66.5	(61.2-71.5)
Post Pregnancy Insurance Status				
Uninsured	40	3,378	84.1**	(64.8-93.8)
Medicaid/Public	696	31,409	88.1	(84.2-91.2)
Private	586	37,744	69.8	(65.7-73.5)
Marital Status				
Married	579	41,943	71.7	(67.7-75.3)
Other	801	33,289	86.5	(82.7-89.6)
Parity				
No previous live birth	500	26,651	72.7	(67.8-77.0)
1	429	24,782	75.7	(70.5-80.1)
2+	449	23,762	86.3	(81.7-89.9)
Last Year's Household Income				
<\$16,000	409	15,465	88.0	(82.2-92.1)
\$16,001-\$24,000	205	11,333	83.0	(75.0-88.8)
\$24,001-\$40,000	185	9,557	75.7	(67.0-82.8)
\$40,001-\$60,000	142	9,984	78.3	(69.8-84.9)
\$60,001+	285	21,219	67.1	(61.8-72.1)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 76. Prevalence of infant usually sleeping in a crib[^] by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,670	97,123	93.3	(91.6-94.6)
Maternal Age				
<20 Years	111	4,403	91.3**	(80.6-96.3)
20-29 Years	921	52,507	93.9	(91.4-95.6)
30+ Years	638	40,213	92.7	(90.0-94.7)
Race/Ethnicity				
White, non-Hispanic	707	65,109	94.8	(92.6-96.4)
Black, non-Hispanic	786	17,094	92.0	(89.8-93.7)
Hispanic	65	6,729	91.8**	(82.1-96.4)
Asian/Pacific Islander, non-Hispanic	38	2,639	84.1**	(67.5-93.1)
Other, non-Hispanic	68	5,077	85.6**	(72.7-93.0)
Education				
<High School	192	9,118	98.3**	(96.1-99.3)
HS Grad/GED	451	24,259	91.5	(87.3-94.4)
Some College	565	30,707	92.0	(88.7-94.4)
College Degree+	442	31,960	94.3	(91.2-96.3)
Post Pregnancy Insurance Status				
Uninsured	46	3,876	88.6**	(73.9-95.5)
Medicaid/Public	766	35,710	94.4	(91.7-96.2)
Private	787	54,000	92.7	(90.2-94.6)
Marital Status				
Married	778	58,907	93.4	(91.1-95.1)
Other	892	38,216	93.0	(90.2-95.1)
Parity				
No previous live birth	638	37,069	92.5	(89.4-94.8)
1	530	32,999	94.6	(92.0-96.4)
2+	500	27,018	92.7	(88.9-95.2)
Last Year's Household Income				
<\$16,000	442	17,268	95.4	(92.5-97.3)
\$16,001-\$24,000	232	13,349	91.9**	(85.2-95.7)
\$24,001-\$40,000	224	12,215	91.2	(84.8-95.0)
\$40,001-\$60,000	172	12,596	90.3	(83.6-94.4)
\$60,001+	421	32,242	93.6	(90.7-95.6)

[^]Wording in question is "crib, bassinet, or pack and play".

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 77. Prevalence of infant usually sleeping on an adult-sized mattress
by maternal characteristics, MI PRAMS, 2017**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	467	20,572	20.3	(18.1-22.7)
Maternal Age				
<20 Years	41	1,038	23.2	(14.3-35.3)
20-29 Years	269	11,358	21.0	(17.9-24.4)
30+ Years	157	8,176	19.1	(15.8-23.0)
Race/Ethnicity				
White, non-Hispanic	109	9,358	13.9	(11.3-16.9)
Black, non-Hispanic	301	6,534	36.3	(32.8-39.8)
Hispanic	17	1,675	24.7	(15.0-37.9)
Asian/Pacific Islander, non-Hispanic	17	1,366	46.1	(29.8-63.2)
Other, non-Hispanic	19	1,300	22.8	(13.2-36.6)
Education				
<High School	47	1,687	19.8	(13.2-28.6)
HS Grad/GED	130	5,108	19.8	(15.6-24.8)
Some College	182	7,598	23.5	(19.4-28.1)
College Degree+	99	5,693	17.0	(13.5-21.1)
Post Pregnancy Insurance Status				
Uninsured	16	1,495	34.2	(20.1-51.7)
Medicaid/Public	235	8,214	22.3	(18.7-26.4)
Private	189	9,894	17.4	(14.6-20.5)
Marital Status				
Married	170	10,747	17.3	(14.6-20.5)
Other	297	9,825	25.0	(21.4-29.0)
Parity				
No previous live birth	199	8,057	20.8	(17.3-24.8)
1	131	6,237	18.4	(14.8-22.6)
2+	137	6,278	21.9	(17.7-26.9)
Last Year's Household Income				
<\$16,000	134	4,064	23.2	(18.2-29.2)
\$16,001-\$24,000	74	3,062	22.1	(16.2-29.4)
\$24,001-\$40,000	81	3,374	25.5	(19.1-33.3)
\$40,001-\$60,000	53	2,898	21.7	(15.4-29.6)
\$60,001+	79	5,187	15.2	(11.9-19.2)

Table 78. Prevalence of infant usually sleeping on a couch, sofa, or armchair by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	160	7,414	7.3	(5.9-9.0)
Maternal Age				
<20 Years	13	566	11.9**	(5.1-25.2)
20-29 Years	89	4,094	7.6	(5.7-10.0)
30+ Years	58	2,753	6.4	(4.5-9.1)
Race/Ethnicity				
White, non-Hispanic	43	3,653	5.4	(3.8-7.7)
Black, non-Hispanic	97	2,116	11.7	(9.6-14.3)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	13	872	15.0**	(7.6-27.4)
Education				
<High School	21	539	6.2**	(3.4-11.2)
HS Grad/GED	38	1,589	6.1	(3.8-9.7)
Some College	68	3,837	11.8	(8.7-15.8)
College Degree+	30	1,260	3.8	(2.3-6.0)
Post Pregnancy Insurance Status				
Uninsured	7	561	12.8**	(4.9-29.4)
Medicaid/Public	74	2,907	7.9	(5.6-10.9)
Private	73	3,704	6.5	(4.8-8.7)
Marital Status				
Married	64	3,735	6.0	(4.4-8.2)
Other	96	3,678	9.3	(6.9-12.3)
Parity				
No previous live birth	63	2,795	7.2	(5.0-10.1)
1	47	2,096	6.2	(4.3-8.9)
2+	50	2,522	8.8	(6.0-12.7)
Last Year's Household Income				
<\$16,000	41	1,623	9.3	(5.7-14.7)
\$16,001-\$24,000	22	912	6.5	(3.6-11.5)
\$24,001-\$40,000	36	1,773	13.3	(8.6-20.1)
\$40,001-\$60,000	14	753	5.6**	(2.8-11.0)
\$60,001+	30	1,819	5.4	(3.4-8.2)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 79. Prevalence of infant usually sleeping in an infant car seat or swing by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	833	49,852	49.0	(45.9-52.0)
Maternal Age				
<20 Years	52	1,927	40.3	(28.3-53.6)
20-29 Years	464	27,289	50.1	(45.9-54.4)
30+ Years	317	20,636	48.4	(43.8-53.1)
Race/Ethnicity				
White, non-Hispanic	381	34,411	51.0	(46.9-55.0)
Black, non-Hispanic	361	7,992	44.1	(40.5-47.7)
Hispanic	28	2,996	42.5	(30.0-56.1)
Asian/Pacific Islander, non-Hispanic	24	1,741	58.7	(40.8-74.5)
Other, non-Hispanic	38	2,684	47.0	(33.6-60.9)
Education				
<High School	83	3,685	42.3	(32.6-52.5)
HS Grad/GED	217	11,745	45.3	(39.2-51.6)
Some College	299	17,221	52.5	(47.1-57.8)
College Degree+	228	16,821	50.4	(45.2-55.7)
Post Pregnancy Insurance Status				
Uninsured	27	2,503	57.5	(40.6-72.8)
Medicaid/Public	346	15,981	43.3	(38.4-48.4)
Private	423	29,469	51.4	(47.3-55.5)
Marital Status				
Married	414	32,124	51.7	(47.7-55.7)
Other	419	17,728	44.6	(40.0-49.3)
Parity				
No previous live birth	320	19,204	49.3	(44.4-54.3)
1	272	17,187	50.4	(45.1-55.7)
2+	240	13,440	46.7	(41.1-52.5)
Last Year's Household Income				
<\$16,000	197	7,329	41.8	(35.2-48.7)
\$16,001-\$24,000	103	6,913	49.0	(40.5-57.6)
\$24,001-\$40,000	129	6,755	50.5	(41.9-59.1)
\$40,001-\$60,000	92	6,742	50.3	(41.5-59.0)
\$60,001+	226	17,687	52.0	(46.7-57.2)

Table 80. Prevalence of infant usually sleeping in a sleep sack or wearable blanket by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	650	44,648	43.9	(40.9-47.0)
Maternal Age				
<20 Years	32	1,385	29.9	(19.0-43.7)
20-29 Years	310	21,011	38.6	(34.5-42.8)
30+ Years	308	22,252	52.3	(47.6-56.9)
Race/Ethnicity				
White, non-Hispanic	390	34,683	51.1	(47.1-55.2)
Black, non-Hispanic	188	4,096	22.8	(19.9-26.0)
Hispanic	19	1,986	29.6	(18.9-43.1)
Asian/Pacific Islander, non-Hispanic	19	1,520	51.2	(34.3-67.9)
Other, non-Hispanic	31	2,198	38.2	(25.8-52.3)
Education				
<High School	51	2,875	35.0	(25.6-45.7)
HS Grad/GED	121	7,942	30.6	(25.0-36.8)
Some College	211	13,492	40.9	(35.7-46.4)
College Degree+	262	20,023	59.9	(54.6-64.9)
Post Pregnancy Insurance Status				
Uninsured	18	2,072	47.4	(31.1-64.2)
Medicaid/Public	216	11,554	31.4	(26.8-36.4)
Private	397	29,810	52.1	(48.0-56.2)
Marital Status				
Married	399	31,539	50.9	(46.8-54.9)
Other	251	13,109	33.0	(28.6-37.7)
Parity				
No previous live birth	260	17,413	44.8	(40.0-49.8)
1	226	16,434	48.1	(42.8-53.4)
2+	163	10,779	37.7	(32.2-43.4)
Last Year's Household Income				
<\$16,000	127	6,552	37.5	(30.8-44.7)
\$16,001-\$24,000	67	4,028	29.0	(21.7-37.6)
\$24,001-\$40,000	69	4,884	37.0	(28.9-45.8)
\$40,001-\$60,000	75	6,113	44.6	(36.1-53.5)
\$60,001+	263	20,512	59.9	(54.7-64.9)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 81. Prevalence of infant usually sleeping with a blanket
by maternal characteristics, MI PRAMS, 2017**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	648	36,375	36.0	(33.1-39.0)
Maternal Age				
<20 Years	63	2,685	58.4	(45.0-70.7)
20-29 Years	365	19,735	36.4	(32.3-40.6)
30+ Years	220	13,955	33.1	(28.8-37.6)
Race/Ethnicity				
White, non-Hispanic	228	21,498	32.0	(28.3-36.0)
Black, non-Hispanic	335	7,528	41.8	(38.3-45.5)
Hispanic	31	3,365	49.7	(36.3-63.1)
Asian/Pacific Islander, non-Hispanic	23	1,511	50.9	(34.0-67.7)
Other, non-Hispanic	29	2,210	38.7	(25.9-53.2)
Education				
<High School	81	3,676	43.5	(33.6-54.0)
HS Grad/GED	201	10,260	39.5	(33.6-45.8)
Some College	222	12,784	39.5	(34.3-45.0)
College Degree+	135	9,177	27.5	(23.0-32.4)
Post Pregnancy Insurance Status				
Uninsured	23	1,801	43.8	(27.7-61.2)
Medicaid/Public	305	14,888	40.5	(35.6-45.6)
Private	290	18,209	32.1	(28.4-36.1)
Marital Status				
Married	268	20,435	33.1	(29.4-37.1)
Other	380	15,939	40.5	(35.9-45.1)
Parity				
No previous live birth	263	14,600	37.4	(32.7-42.4)
1	196	10,671	31.6	(26.9-36.8)
2+	188	11,082	39.2	(33.7-45.0)
Last Year's Household Income				
<\$16,000	172	6,143	35.2	(29.0-42.0)
\$16,001-\$24,000	102	6,973	50.4	(41.8-59.0)
\$24,001-\$40,000	100	5,088	38.1	(30.1-46.8)
\$40,001-\$60,000	66	5,045	37.7	(29.5-46.7)
\$60,001+	120	8,730	25.8	(21.5-30.7)

Table 82. Prevalence of infant usually sleeping with toys, cushions, or pillows by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	106	5,275	5.2	(4.0-6.7)
Maternal Age				
<20 Years	*	*	*	*
20-29 Years	61	2,785	5.1	(3.6-7.2)
30+ Years	38	2,235	5.2	(3.5-7.7)
Race/Ethnicity				
White, non-Hispanic	41	3,414	5.1	(3.6-7.1)
Black, non-Hispanic	54	1,138	6.3	(4.7-8.3)
Hispanic	*	*	*	*
Asian/Pacific Islander, non-Hispanic	*	*	*	*
Other, non-Hispanic	*	*	*	*
Education				
<High School	12	420	4.8**	(2.0-11.2)
HS Grad/GED	28	1,519	5.8	(3.6-9.5)
Some College	43	1,960	6.0	(4.0-9.0)
College Degree+	23	1,376	4.1	(2.5-6.6)
Post Pregnancy Insurance Status				
Uninsured	*	*	*	*
Medicaid/Public	42	1,719	4.7	(3.0-7.2)
Private	52	2,949	5.2	(3.7-7.2)
Marital Status				
Married	43	2,803	4.5	(3.2-6.4)
Other	63	2,472	6.2	(4.4-8.8)
Parity				
No previous live birth	45	2,055	5.3	(3.6-7.7)
1	34	1,665	4.9	(3.1-7.5)
2+	27	1,555	5.4	(3.3-8.8)
Last Year's Household Income				
<\$16,000	30	699	4.0	(2.4-6.6)
\$16,001-\$24,000	17	1,094	7.8**	(4.2-14.0)
\$24,001-\$40,000	10	564	4.2**	(1.8-9.7)
\$40,001-\$60,000	11	635	4.7**	(2.3-9.7)
\$60,001+	24	1,637	4.8**	(3.1-7.4)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

**Table 83. Prevalence of infant usually sleeping with crib bumper pads (mesh or non-mesh)
by maternal characteristics, MI PRAMS, 2017**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	176	10,433	10.3	(8.6-12.4)
Maternal Age				
<20 Years	16	687	15.4**	(7.7-28.4)
20-29 Years	96	6,063	11.2	(8.8-14.3)
30+ Years	64	3,683	8.7	(6.4-11.6)
Race/Ethnicity				
White, non-Hispanic	65	6,701	9.9	(7.7-12.7)
Black, non-Hispanic	88	2,062	11.6	(9.5-14.2)
Hispanic	6	503	7.3**	(2.9-17.2)
Asian/Pacific Islander, non-Hispanic	8	543	18.4**	(8.5-35.5)
Other, non-Hispanic	9	625	11.7**	(5.0-24.8)
Education				
<High School	19	882	10.5**	(5.7-18.6)
HS Grad/GED	55	2,922	11.3	(7.9-15.7)
Some College	58	3,723	11.6	(8.4-15.6)
College Degree+	41	2,836	8.5	(6.0-11.9)
Post Pregnancy Insurance Status				
Uninsured	*	*	*	*
Medicaid/Public	70	3,425	9.4	(6.9-12.8)
Private	91	6,374	11.2	(8.8-14.1)
Marital Status				
Married	77	6,011	9.8	(7.6-12.5)
Other	99	4,423	11.2	(8.6-14.4)
Parity				
No previous live birth	80	4,768	12.3	(9.4-16.0)
1	54	3,219	9.5	(6.9-13.1)
2+	41	2,431	8.6	(5.8-12.4)
Last Year's Household Income				
<\$16,000	42	1,483	8.5	(5.5-12.8)
\$16,001-\$24,000	25	1,870	13.4	(8.4-20.7)
\$24,001-\$40,000	20	1,090	8.3	(4.7-14.4)
\$40,001-\$60,000	24	1,924	14.4	(9.2-21.8)
\$60,001+	35	2,644	7.8	(5.3-11.1)

*Data not shown due to small sample size and/or relative standard error > 50%.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 84. Prevalence of infant usually sleeping on his or her back^ by maternal characteristics, MI PRAMS, 2017

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,430	87,247	83.3	(81.1-85.4)
Maternal Age				
<20 Years	81	3,706	76.7	(65.6-85.0)
20-29 Years	757	45,690	81.1	(77.7-84.0)
30+ Years	592	37,852	87.0	(83.6-89.7)
Race/Ethnicity				
White, non-Hispanic	658	60,300	87.3	(84.3-89.8)
Black, non-Hispanic	615	13,264	70.7	(67.3-73.8)
Hispanic	59	6,357	86.7**	(75.0-93.4)
Asian/Pacific Islander, non-Hispanic	31	2,182	69.5	(52.2-82.6)
Other, non-Hispanic	61	4,668	78.7	(65.5-87.8)
Education				
<High School	148	7,067	76.1	(66.9-83.4)
HS Grad/GED	372	21,295	80.1	(74.9-84.4)
Some College	481	27,224	81.2	(76.9-84.9)
College Degree+	413	30,699	89.7	(86.3-92.2)
Post Pregnancy Insurance Status				
Uninsured	39	3,530	77.2**	(59.9-88.4)
Medicaid/Public	629	30,411	79.8	(75.9-83.3)
Private	709	50,850	87.1	(84.3-89.5)
Marital Status				
Married	711	54,760	86.3	(83.3-88.8)
Other	719	32,488	78.8	(75.0-82.1)
Parity				
No previous live birth	531	33,626	83.4	(79.8-86.5)
1	463	29,520	84.2	(80.2-87.6)
2+	435	24,079	82.1	(77.5-86.0)
Last Year's Household Income				
<\$16,000	372	15,078	83.1	(77.9-87.2)
\$16,001-\$24,000	194	11,930	80.8	(73.7-86.3)
\$24,001-\$40,000	187	10,516	77.7	(69.9-83.9)
\$40,001-\$60,000	151	11,748	84.2	(77.2-89.4)
\$60,001+	399	31,060	89.9	(86.4-92.5)

^Sleeping on the back meant that respondent reported that they placed the baby to sleep on its back exclusively. Mothers reporting that their baby slept primarily on its stomach, side, or alternating between sleep positions are not included in this count.

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 85. Prevalence of life stressors experienced by mothers in 12 months before delivery, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Life Stressors (non-exclusive)				
I moved to a new address	639	36,892	34.6	(31.8-37.5)
A close family member was very sick and had to go to the hospital	453	26,237	24.7	(22.1-27.4)
Someone very close to me died	420	20,982	19.7	(17.5-22.1)
I argued with my husband or partner more than usual	395	20,178	19.0	(16.7-21.4)
I had to live with a friend or family member	337	16,686	15.6	(13.6-17.9)
I had problems paying the rent, mortgage, or other bills	304	16,632	15.6	(13.5-17.9)
My husband, partner, or I had a cut in work hours or pay	278	15,661	14.8	(12.7-17.1)
I lost my job even though I wanted to go on working	230	10,797	10.1	(8.5-12.0)
Someone very close to me had a problem with drinking or drugs	202	12,456	11.7	(9.8-13.8)
My husband or partner lost his job	169	8,841	8.3	(6.8-10.2)
My husband or partner said he didn't want me to be pregnant	133	6,723	6.3	(5.0-7.9)
I got divorced or separated from my husband or partner	124	5,702	5.3	(4.2-6.8)
My husband, partner, or I went to jail	105	3,335	3.1	(2.3-4.2)
I was homeless or had to sleep outside, in a car, or in a shelter	85	2,964	2.8	(2.0-3.9)
I was apart from my husband or partner because of deployment or extended work-related travel	56	2,989	2.8	(2.0-3.9)

Table 86. Cumulative number of life stressors experienced by mothers in 12 months before delivery, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0	521	32,938	30.8	(28.1-33.6)
1	440	25,558	23.9	(21.5-26.5)
2	297	16,184	15.1	(13.1-17.4)
3	195	10,793	10.1	(8.4-12.1)
4	168	9,000	8.4	(6.9-10.3)
5	94	4,578	4.3	(3.2-5.7)
6	56	2,839	2.7	(1.8-3.9)
7	36	1,532	1.4	(0.9-2.3)
8+	65	3,432	4.6	(3.3-6.5)

Table 87. Prevalence of unmet basic needs during pregnancy, MI PRAMS, 2017

Unmet basic need	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
Could not keep basic utility services on (heat, water, light)	150	7,011	6.7	(5.3-8.3)
Did not have affordable, reliable transportation	144	5,559	5.3	(4.2-6.6)
House or apartment was too crowded	140	6,428	6.1	(4.9-7.7)
Did not have safe housing	132	6,455	6.1	(4.9-7.7)
Skipped meals or ate less because there wasn't enough money for food	130	6,084	5.8	(4.5-7.3)
Did not have consistent housing	115	5,019	4.8	(3.7-6.2)
Could not access a telephone when needed	58	3,287	3.1	(2.2-4.4)
Other unmet needs	127	5,719	5.5	(4.3-7.0)

Table 88. Cumulative number of unmet basic needs during pregnancy, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
None	1,283	79,397	75.2	(72.6-77.7)
1	328	16,045	15.2	(13.2-17.4)
2	124	5,330	5.0	(4.0-6.4)
3	52	2,323	2.2	(1.5-3.2)
4+	56	2,449	2.3	(1.6-3.4)

Table 89. Prevalence of any physical violence 12 months before or during pregnancy, MI PRAMS, 2017

Time period of abuse	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Abuse either 12 months before conception or during pregnancy	98	4,497	4.2	(3.2-5.6)
Abuse 12 months before conception	82	3,930	3.7	(2.7-5.0)
Abuse during pregnancy	66	2,860	2.7	(1.9-3.9)

Table 90. Perpetrator of abuse 12 months before conception, MI PRAMS, 2017

Person who abused mother	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Husband/partner	31	1,199	1.1**	(0.6-2.0)
Ex-husband/partner	37	1,675	1.6	(1.0-2.5)
Another family member	18	678	0.6**	(0.3-1.3)
Someone else	16	952	0.9**	(0.5-1.7)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 91. Perpetrator of abuse during pregnancy, MI PRAMS, 2017

Person who abused mother	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Husband/partner	26	1,109	1.0**	(0.6-2.0)
Ex-husband/partner	26	1,122	1.1	(0.6-1.9)
Another family member	14	268	0.3	(0.1-0.4)
Someone else	13	781	0.7**	(0.3-1.6)

**Relative standard error (RSE) exceeds 30%. Interpret with caution.

Table 92. Prevalence of maternal adverse childhood experiences, MI PRAMS, 2017

Adverse Childhood Experience	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
A parent or guardian I lived with got divorced or separated	603	33,408	32.2	(29.4-35.1)
A parent or guardian I lived with had a serious drinking or drug problem	308	18,818	18.1	(15.9-20.7)
We had to move because of trouble paying the rent or mortgage	274	15,275	14.8	(12.7-17.1)
A parent or guardian got in trouble with the law or went to jail	241	13,890	13.4	(11.4-15.7)
Someone in my family or I went hungry because we could not afford enough food	169	8,728	8.4	(6.9-10.3)
Most of the time, I did not have an adult who believed in me and who I could count on to help me	164	8,308	8.0	(6.5-9.8)
I was in foster care (removed from home by court or child welfare)	112	4,188	4.0	(3.1-5.3)

Table 93. Cumulative number of maternal adverse childhood experiences, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
None	872	52,845	50.6	(47.6-53.6)
1	486	25,523	24.4	(22.0-27.1)
2	210	11,836	11.3	(9.5-13.4)
3	137	8,384	8.0	(6.5-9.9)
4+	116	5,817	5.6	(4.3-7.1)

Table 94. From childhood through age 13 how often did mother's family have difficulty paying for basic needs like food and housing, MI PRAMS, 2017

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Very often	77	4,504	4.3	(3.2-5.8)
Somewhat often	219	12,923	12.4	(10.5-14.7)
Not very often	450	25,553	24.6	(22.1-27.3)
Never	1,058	60,961	58.7	(55.6-61.6)

Notes on Maternal Resilience

This resilience scale was created and tested by Bruce Smith and colleagues ("The Brief Resilience Scale: Assessing the Ability to Bounce Back." *International Journal of Behavioral Medicine*, 2008). Half of the questions on PRAMS were asked in the affirmative - an answer of "YES" indicated that a mother typically had a positive response to a stressful life event. The other half of the questions were asked in the negative. For these questions, an answer of "NO" meant that a mother usually did not have a negative response to a stressful situation.

In order to calculate an individual's cumulative number of positive responses to stress and to provide a basic summary "resilience score," all survey questions in the table below have been converted to positive language. Women with a resilience score of 6 report that most of the time they handle stressful situations well. Women with a resilience score of 0 report that they typically respond poorly to stressful life situations.

**Table 95. Positive responses to stressful events,
MI PRAMS, 2017**

Stressful event response	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
I do not take a long time to get over set-backs in my life	1,666	96,766	92.3	(90.5-93.7)
It is not hard for me to snap back when something bad happens	1,614	92,212	87.9	(85.7-89.7)
I do not have a hard time making it through stressful events	1,563	88,958	84.7	(82.3-86.8)
I tend to bounce back quickly after hard times	1,329	73,335	70.0	(67.1-72.7)
It does not take me long to recover from a stressful event	1,030	60,571	57.6	(54.6-60.5)
I usually come through a difficult time with little trouble	995	56,722	54.1	(51.1-57.1)

**Table 96. Cumulative number of positive responses to stressful life events,
MI PRAMS, 2017**

Number of positive responses to stressful situations	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
6	543	31,970	30.3	(27.6-33.1)
5	450	23,785	22.5	(20.1-25.1)
4	478	28,977	27.4	(24.8-30.2)
0-3	370	20,892	19.8	(17.5-22.3)

**Table 97. Post-partum checkup for mother,
MI PRAMS, 2017**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,642	96,703	91.3	(89.5-92.8)
No	207	9,263	8.7	(7.2-10.5)

**Table 98. Prevalence of health care provider discussions and actions taken during postpartum checkup,
MI PRAMS, 2017**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Discussion or Action (non-exclusive)				
Discuss birth control methods	1,464	86,880	90.3	(88.3-92.0)
Ask if feeling down or depressed	1,457	85,791	89.0	(86.9-90.9)
Ask if taking other prescriptions medications	1,163	68,196	71.3	(68.3-74.1)
Ask about current emotional or physical abuse	1,105	60,225	62.7	(59.6-65.7)
Ask if smoking cigarettes	1,075	59,859	62.7	(59.6-65.7)
Discuss healthy eating, exercise and losing pregnancy weight gain	950	51,881	54.0	(50.8-57.1)
Ask if drinking alcohol	900	47,354	49.5	(46.3-52.6)
Discuss how long to wait to get pregnant again	832	45,776	47.8	(44.6-50.9)
Give or prescribe hormonal or barrier contraceptives	809	43,695	45.6	(42.5-48.8)
Advise to take folic acid	774	48,374	51.2	(48.0-54.4)
Ask if taking prescription opioids	631	32,409	34.0	(31.1-37.0)
Test for diabetes	465	19,521	20.5	(18.2-22.9)
Insert an IUD	353	19,272	20.2	(17.7-22.8)

**Table 99. Post-partum depression symptoms,
MI PRAMS, 2017**

Experience	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Since new baby was born, number of mothers reporting...				
<i>Feeling down, depressed, or hopeless</i>				
Never	756	40,191	38.1	(35.3-41.1)
Rarely	575	37,147	35.2	(32.4-38.2)
Sometimes	372	21,197	20.1	(17.8-22.6)
Often	90	5,003	4.7	(3.6-6.2)
Always	37	1,899	1.8	(1.1-2.9)
 <i>Having little or no pleasure in doing things</i>				
Never	741	42,958	40.8	(37.9-43.8)
Rarely	516	33,757	32.1	(29.3-35.0)
Sometimes	345	18,127	17.2	(15.1-19.6)
Often	135	6,407	6.1	(4.8-7.7)
Always	96	3,935	3.7	(2.8-5.0)
Mothers reporting significant post-partum depression**	288	13,526	12.9	(11.1-15.0)

****This measure is a composite of the previous two questions. If a mother reported either of these statements to be true for her on average often or always, she was coded as demonstrating significant post-partum depression.**

**Table 100. Maternal immunization before and during pregnancy,
MI PRAMS, 2017**

Maternal Immunization	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Flu Shot				
No	971	49,751	47.1	(44.1-50.0)
Yes, before pregnancy	182	9,473	9.0	(7.4-10.8)
Yes, during pregnancy	699	46,472	44.0	(41.0-47.0)
Tdap				
No	561	28,640	26.8	(24.3-29.5)
Yes	1,143	69,903	65.3	(62.5-68.1)
I don't know	174	8,429	7.9	(6.4-9.6)

**Table 101. Plans for future infant immunization,
MI PRAMS, 2017**

Immunization Plans	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
As doctor recommends	1,477	88,656	86.2	(84.0-88.2)
All vaccines but on a different schedule	86	5,228	5.1	(3.9-6.7)
Only some vaccines	151	5,976	5.8	(4.7-7.2)
No vaccines planned	53	2,943	2.9	(2.0-4.2)

**Table 102. Average amount of maternal sleep each night in the last week,
MI PRAMS, 2017**

Quantity (hours)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-3	124	4,936	4.8	(3.8-6.2)
4-6	1,043	58,106	56.9	(53.8-59.9)
7-8	532	36,126	35.4	(32.5-38.4)
9+	59	2,929	2.9	(2.0-4.1)

**Table 103. Average number of times mother awoke each night in the last week,
MI PRAMS, 2017**

Number of awakenings	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-1	403	25,653	26.6	(23.9-29.6)
2	558	33,850	35.2	(32.2-38.2)
3	406	22,562	23.4	(20.9-26.2)
4+	287	14,221	14.8	(12.7-17.1)

**Table 104. Partner living arrangement with mother,
MI PRAMS, 2017**

Living arrangement	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (exclusive)				
Partner lives with me all of the time	1,279	86,062	82.7	(80.7-84.6)
Partner lives with me some of the time	96	3,782	3.6	(2.7-4.8)
Partner does not live with me	234	7,646	7.4	(6.1-8.8)
I do not have a husband or partner	200	6,532	6.3	(5.1-7.6)

**Table 105. Ways that husband or partner supports mother,
MI PRAMS, 2017**

Support of mother	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
My partner is someone who helps me care for my child(ren)	1,535	93,400	96.4	(95.0-97.4)
My partner is someone I can talk with about things that are important to me	1,501	92,029	95.0	(93.5-96.2)
My partner is someone who does things with me	1,498	92,102	95.2	(93.7-96.4)
My partner is someone whom I can count on	1,496	92,044	95.3	(93.9-96.5)
My partner is someone who talks with me and spends time with me	1,490	91,472	94.5	(92.9-95.8)
My partner is someone I can count on for financial support if I need it	1,481	91,083	93.8	(92.1-95.1)
My partner is someone who is affectionate toward me	1,479	91,516	94.8	(93.3-96.0)
My partner is someone who understands how I am feeling	1,409	86,020	89.0	(86.9-90.9)

**Table 106. Cumulative number of ways that husband or partner supports mother,
MI PRAMS, 2017**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-2	75	3,461	3.6	(2.6-4.9)
3-5	64	3,348	3.4	(2.4-4.8)
6-7	172	9,973	10.2	(8.4-12.4)
8	1,300	80,647	82.8	(80.2-85.0)

**Table 107. People available to help watch baby,
MI PRAMS, 2017**

Infant caretakers	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Caretakers (non-exclusive)				
Husband/Partner	1,255	76,806	73.3	(70.6-75.8)
Baby's grandparent	1,162	67,685	64.6	(61.6-67.4)
Other close family member/relative	624	34,492	32.9	(30.1-35.8)
Babysitter, nanny, or other child care provider	218	13,252	12.6	(10.8-14.7)
Staff at day care center	153	8,645	8.2	(6.8-10.0)
Friend or neighbor	147	9,103	8.7	(7.1-10.6)
Other	46	1,845	1.8	(1.2-2.6)
Baby always with mom	322	17,732	16.9	(14.8-19.3)

**Table 108. Cumulative number of infant caretakers,
MI PRAMS, 2017**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
None	127	6,869	6.6	(5.2-8.2)
1	497	27,632	26.4	(23.8-29.1)
2	612	36,548	34.9	(32.0-37.8)
3	437	25,758	24.6	(22.1-27.3)
4+	135	8,016	7.6	(6.2-9.4)

APPENDIX

Comparison of MI PRAMS 2017 Data Tables to MI PRAMS 2015 Data Tables

MI PRAMS 2017 Table	MI PRAMS 2015 Table
Table 1. Distribution of selected maternal characteristics	Table 1. Distribution of selected maternal characteristics
Table 2. Distribution of pre-pregnancy maternal body mass index categories	Table 2. Distribution of pre-pregnancy maternal body mass index categories
Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics	Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics
Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics	Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics
Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics	Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics
Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics	Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics
Table 7. Prevalence of maternal health problems during the 3 months before pregnancy	Table 7. Prevalence of selected maternal health problems during the 3 months before pregnancy
Table 8.** Prevalence of health care visits in the year before pregnancy - including dental or mental health - with a doctor, nurse, or other healthcare worker by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 9**. Type of healthcare visits among women in the 12 months before pregnancy <i>**New topic on Phase 8 survey</i>	
Table 10**. Type of counseling/screening among women reporting any healthcare visits in the 12 months before pregnancy <i>**New topic on Phase 8 survey</i>	
Table 11.^ Frequency of taking a folate-containing vitamin in the month before pregnancy <i>^ Topic available but not reported in Phase 7 tables</i>	
Table 12.^ Prevalence of no folic acid containing vitamin consumption in the month before pregnancy by maternal characteristics <i>^ Topic available but not reported in Phase 7 tables</i>	
Table 13. Distribution of pregnancy intention categories	Table 11. Distribution of pregnancy intention categories
Table 14. Distribution of unintended pregnancy subtypes among women reporting either unsure or unintended pregnancy	Table 12. Distribution of unintended pregnancy subtypes among women reporting either unsure or unintended pregnancy
Table 15. Prevalence of unintended pregnancy by maternal characteristics	Table 13. Prevalence of unintended pregnancy by maternal characteristics

MI PRAMS 2017 Table	MI PRAMS 2015 Table
Table 16.^ Distribution of contraceptive behaviors at the time of conception <i>^^ Topic available in Phase 6 Survey</i>	
Table 17. Characteristics of women trying to conceive during the pre-pregnancy period	Table 14. Characteristics of women trying to conceive during the pre-pregnancy periods
Table 18. Characteristics of women who became pregnant despite using contraceptive practices	Table 15. Prevalence of women who became pregnant despite using contraceptive practices
Table 19. ^^ Prevalence of contraception methods used by women who became pregnant despite using contraceptive practices <i>^^Topic available in Phase 6 Survey</i>	
Table 20. Prevalence of women who were not trying to conceive but were not doing anything to prevent pregnancy by maternal characteristics	Table 16. Prevalence of women who were not trying to conceive but were not doing anything to prevent pregnancy by maternal characteristics
Table 21. Reasons women who were not trying to conceive - but were not doing anything to prevent pregnancy - did not use contraception	Table 17. Reasons women who were not trying to conceive but were not doing anything to prevent pregnancy did not use contraception
Table 22. Prevalence of using any postpartum contraceptive method by maternal characteristics	Table 18. Prevalence of using any postpartum pregnancy prevention method by maternal characteristics
Table 23. Prevalence of postpartum contraceptive methods	Table 19. Prevalence of postpartum contraceptive methods
Table 24.^ Prevalence of no postpartum contraceptive methods by maternal characteristics <i>^ Topic available but not reported in Phase 7 tables</i>	
Table 25. Reasons for not using any postpartum contraception	Table 20. Reasons for not using postpartum contraceptive methods
Table 26. Trimester of entry into prenatal care	Table 21. Trimester of entry into prenatal care
Table 29. Prevalence of getting prenatal care as early as wanted	Table 22. Prevalence of getting prenatal care as early as wanted
Table 30. Prevalence of getting prenatal care as early as wanted by first trimester entry into prenatal care <i>^ Topic available but not reported in Phase 7 tables</i>	
Table 31.^ Barriers to starting prenatal care as early as wanted among women who began prenatal care during the first trimester <i>^^Topic available in Phase 6 survey</i>	
Table 32.^ Barriers to starting prenatal care as early as wanted among women who began prenatal care after the first trimester <i>^^Topic available in Phase 6 survey</i>	
Table 33**. Prevalence of topics discussed by health care provider during prenatal care visits <i>**New topic on Phase 8 survey</i>	

MI PRAMS 2017 Table	MI PRAMS 2015 Table
Table 34**. Prevalence of Pregnancy Complications <i>**New topic on Phase 8 survey</i>	
Table 35. Prevalence of smoking during the 3 months before pregnancy by maternal characteristics	
Table 36. Prevalence of smoking during the last 3 months of pregnancy by maternal characteristics	Table 30. Prevalence of smoking during the last three months of pregnancy by maternal characteristics
Table 37^. Prevalence of smoking after pregnancy by maternal characteristics <i>^ Topic available but not reported in Phase 7 tables</i>	
Table 38**. Prevalence of electronic cigarette usage during the 3 months before pregnancy by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 39**. Prevalence of electronic cigarette usage during the last 3 months of pregnancy <i>**New topic on Phase 8 survey</i>	
Table 40**. Prevalence of hookah usage in 2 years before survey completion by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 41**. Prevalence of marijuana or hash usage in 12 months before pregnancy by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 42**. Prevalence of marijuana or hash usage during pregnancy by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 43**. Prevalence of marijuana or hash usage after pregnancy by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 44**. Prevalence of opioid pain reliever usage in 12 months before pregnancy by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 45**. Prevalence of opioid pain reliever usage during pregnancy by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 46**. Prevalence of opioid pain reliever usage after pregnancy by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 47. Distribution of delivery methods	Table 31. Distribution of delivery methods
Table 48. Prevalence of low birthweight by maternal characteristics	Table 33. Prevalence of low birthweight by maternal characteristics

MI PRAMS 2017 Table	MI PRAMS 2015 Table
Table 49. Distribution of low birthweight subcategories among low birthweight infants	Table 34. Distribution of low birthweight subcategories among low birthweight infants
Table 50. Prevalence of low birthweight by smoking status during last three months of pregnancy	Table 35. Prevalence of low birthweight by smoking status during last three months of pregnancy
Table 51 [^] . Prevalence of high birthweight by maternal characteristics <i>[^]Topic available, but not reported in Phase 7 tables</i>	Table 36. Prevalence of high birthweight by maternal characteristics
Table 52 [^] . Prevalence of high birthweight by diabetes before pregnancy or gestational diabetes <i>[^]Topic available, but not reported in Phase 7 tables</i>	
Table 53. Distribution of infant birthweights and gestational ages	Table 39. Distribution of infant birthweights and gestational ages
Table 54. Prevalence of preterm birth by maternal characteristics	Table 38. Prevalence of preterm birth by maternal characteristics
Table 55 [^] . Breastfeeding duration categories <i>[^]Topic available, but not reported in Phase 7 tables</i>	
Table 56 ^{**} . Reasons for not initiating breastfeeding <i>**New topic on Phase 8 survey</i>	
Table 57 ^{**} . Cumulative number of reasons for not initiating breastfeeding <i>**New topic on Phase 8 survey</i>	
Table 58. Prevalence of breastfeeding initiation by maternal characteristics	Table 40. Prevalence of breastfeeding initiation by maternal characteristics
Table 59 [^] . Prevalence of 1-month breastfeeding duration by maternal characteristics <i>[^]Topic available, but not reported in Phase 7 tables</i>	
Table 60. [^] Prevalence of 2-month breastfeeding duration by maternal characteristics <i>[^]Topic available, but not reported in Phase 7 tables</i>	
Table 61 [^] . Prevalence of 3-month breastfeeding duration by maternal characteristics <i>[^]Topic available, but not reported in Phase 7 tables</i>	
Table 62*. Reasons for stopping breastfeeding <i>*Direct comparison not possible between survey phases</i>	Table 43. Reasons for stopping breastfeeding
Table 63 ^{**} . Breastfeeding information sources before or after delivery <i>**New topic on Phase 8 survey</i>	
Table 64 ^{**} . Total number of breastfeeding information sources <i>**New topic on Phase 8 survey</i>	

MI PRAMS 2017 Table	MI PRAMS 2015 Table
Table 65**. Did mother ever use a breast pump <i>**New topic on Phase 8 survey</i>	
Table 66**. Source of breast pump <i>**New topic on Phase 8 survey</i>	
Table 67**. Prevalence of ever using a breast pump by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 68**. Baby health indicators <i>**New topic on phase 8 survey</i>	
Table 69. Distribution of WIC status during pregnancy,	Table 44. Distribution of WIC status during pregnancy
Table 70**. How often infant slept alone in his/her own bed over last two weeks <i>**New topic on Phase 8 survey</i>	
Table 71**. Infant slept in his/her own crib or bed in mother's room <i>**New topic on Phase 8 survey</i>	
Table 72*^. Infant sleep space characteristics <i>*Direct comparison not possible between survey phases</i> <i>^Topic available, but not reported in Phase 7 tables</i>	
Table 73. Primary infant sleep position	Table 45. Primary infant sleep position
Table 74*. Prevalence of infant always or often sleeping alone in his/her own crib or bed in the last two weeks by maternal characteristics <i>*Direct comparison not possible between survey phases</i>	Table 52. Prevalence of infant usually sleeping with mother or another person by maternal characteristics
Table 75**. Prevalence of infant sleeping alone in his/her own crib or bed in the same room as mother by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 76.* Prevalence of infant usually sleeping in a crib by maternal characteristics <i>*Direct comparison not possible between survey phases</i>	Table 48. Prevalence of infant usually sleeping on a crib by maternal characteristics
Table 77.* Prevalence of infant usually sleeping on an adult-sized mattress by maternal characteristics <i>*Direct comparison not possible between survey phases</i>	Table 49. Prevalence of infant usually sleeping on a firm mattress by maternal characteristics
Table 78**. Prevalence of infant usually sleeping on a couch, sofa, or armchair by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 79**. Prevalence of infant usually sleeping in an infant car seat or swing by maternal characteristics <i>**New topic on Phase 8 survey</i>	
Table 80**. Prevalence of infant usually sleeping in a sleep sack or wearable blanket by maternal characteristics <i>**New topic on Phase 8 survey</i>	

MI PRAMS 2017 Table	MI PRAMS 2015 Table
<p>Table 81.* Prevalence of infant usually sleeping with a blanket by maternal characteristics</p> <p><i>*Direct comparison not possible between survey phases</i></p>	<p>Table 51. Prevalence of infant usually sleeping with blankets by maternal characteristics</p>
<p>Table 82*^ . Prevalence of infant usually sleeping with toys, cushions, or pillows by maternal characteristics</p> <p><i>*Direct comparison not possible between survey phases</i></p> <p><i>^Topic available, but not reported in Phase 7 tables</i></p>	
<p>Table 83.* Prevalence of infant usually sleeping with crib bumper pads (mesh or non-mesh) by maternal characteristics</p> <p><i>*Direct comparison not possible between survey phases</i></p>	<p>Table 50. Prevalence of infant sleeping with bumper pads by maternal characteristics</p>
<p>Table 84. Prevalence of infant usually sleeping on his or her back by maternal characteristics</p>	<p>Table 46. Prevalence of infant back sleeping position by maternal characteristics</p>
<p>Table 85. Prevalence of life stressors experienced by mothers in 12 months before delivery</p>	<p>Table 53. Prevalence of life stressors experienced by mothers</p>
<p>Table 86. Cumulative number of life stressors experienced by mothers in 12 months before delivery</p>	<p>Table 54. Number of life stressors experienced by mothers</p>
<p>Table 87** . Prevalence of unmet basic needs during pregnancy</p> <p><i>**New topic on phase 8 survey</i></p>	
<p>Table 88** . Cumulative number of unmet basic needs during pregnancy</p> <p><i>**New topic on phase 8 survey</i></p>	
<p>Table 89* . Prevalence of any physical violence 12 months before or during pregnancy</p> <p><i>*Direct comparison not possible between survey phases</i></p>	<p>Table 55. Prevalence of intimate partner violence by time period</p>
<p>Table 90. Perpetrator of abuse 12 months before conception</p>	
<p>Table 91. Perpetrator of abuse during pregnancy</p>	
<p>Table 92** . Prevalence of maternal adverse childhood experiences</p> <p><i>**New topic on phase 8 survey</i></p>	
<p>Table 93** . Cumulative number of maternal adverse childhood experiences</p> <p><i>**New topic on phase 8 survey</i></p>	
<p>Table 94** . From childhood through age 13 how often did mother's family have difficulty paying for basic needs like food and housing</p> <p><i>**New topic on phase 8 survey</i></p>	
<p>Table 95** . Positive responses to stressful events</p> <p><i>**New topic on phase 8 survey</i></p>	

MI PRAMS 2017 Table	MI PRAMS 2015 Table
Table 96**. Cumulative number of positive responses to stressful life events <i>**New topic on phase 8 survey</i>	
Table 97. Post-partum checkup for mother	Table 60. Post-partum checkup for mother
Table 98**. Prevalence of health care provider discussions and actions taken during postpartum checkup <i>**New topic on phase 8 survey</i>	
Table 99. Post-partum depression symptoms	Table 61. Post-partum depression symptoms
Table 100^. Maternal immunization before and during pregnancy <i>^Topic available, but not reported in Phase 7 tables (flu only)</i>	
Table 101**. Plans for future infant immunization <i>**New topic on survey Phase 8</i>	
Table 102**. Average amount of maternal sleep each night in the last week <i>**New topic on survey Phase 8</i>	
Table 103**. Average number of times mother awoke each night in the last week <i>**New topic on survey Phase 8</i>	
Table 104**. Partner living arrangement with mother <i>**New topic on survey Phase 8</i>	
Table 105**. Ways that husband or partner supports mother <i>**New topic on survey Phase 8</i>	
Table 106**. Cumulative number of ways that husband or partner supports mother <i>**New topic on survey Phase 8</i>	
Table 107**. People available to help watch baby <i>**New topic on survey Phase 8</i>	
Table 108**. Cumulative number of infant caretakers <i>**New topic on survey Phase 8</i>	

Phase 8 of the PRAMS survey includes birth years 2016 and 2017. Table numbers and names for the 2016 and 2017 Maternal and Infant Health Summary Reports are identical. PRAMS tables, including tables for the 2015 birth year, are available on the PRAMS Reports tab at www.michigan.gov/PRAMS.

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