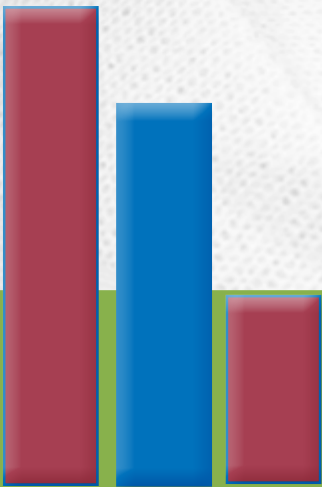


Telling
the story
of Michigan's
mothers
and
babies.



2022 Birth Year Maternal and Infant Health Summary Tables

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Acknowledgments

We thank the people of the State of Michigan for supporting this ongoing work, and especially the mothers who completed the PRAMS survey

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June 2024

The Division for Vital Records and Health Statistics and the Bloustein Center for Survey Research at Rutgers University, and Hannah Bovia supported data collection for the 2022 Michigan PRAMS.

Permission is granted for the reproduction of this publication provided that the reproductions contain appropriate reference to the source.

Suggested Citation: Haak P, Hardy J, Bovia H, Smith K, and Fussman C. 2024. 2022 Michigan PRAMS Birth Year Maternal and Infant Health Summary Tables. Lansing, MI. Michigan Department of Health and Human Services, Lifecourse Epidemiology and Genomics Division.

Introduction to the 2022 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 the 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 Lifecourse Epidemiology and Genomics Division.

MI PRAMS utilizes a mixed-mode methodology in order to gather information from mother who were selected to participate in the survey. This combination web/mail/telephone survey methodology is used in order to maximize response rates. Data collection for the 2022 birth year was conducted by the Michigan Department of Health and Human Services (web and mail) and the Bloustein Center for Survey Research at Rutgers University (phone).

MI PRAMS surveys approximately one to two 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 2022, 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 2022, 2,412 mothers were selected for MI PRAMS and 1,352 completed the survey, for an unweighted response rate of 56.1 percent. After adjusting for differing probabilities of selection within each stratum, the weighted response rate is 58.9 percent. Survey results from these 1,352 respondents are weighted to represent the approximately 98,997 pregnancies resulting in live births in 2022. 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 2022 birth year is the seventh and final 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 on the MI PRAMS reports webpage at: www.michigan.gov/prams.

New survey topics covered in Phase 8 include marijuana and prescription opioid usage; e-cigarette and hookah usage; breastfeeding: reasons for not initiating 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 reports from the prior survey phase can be found in the Appendix.

**Table 1. Distribution of selected maternal characteristics,
MI PRAMS, 2022**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Maternal Age				
Total	1,352	98,997	100.0	
<18 Years	13	711	0.7	(0.3-1.5)
18-19 Years	42	2,147	2.2	(1.5-3.2)
20-24 Years	219	14,192	14.3	(12.2-16.7)
25-29 Years	412	30,866	31.2	(28.3-34.3)
30-34 Years	417	32,460	32.8	(29.8-35.9)
35-39 Years	209	15,924	16.1	(13.9-18.6)
40+ Years	40	2,697	2.7	(1.9-3.9)
Race/Ethnicity				
Total	1,345	98,368	100.0	
White, non-Hispanic	642	64,957	66.0	(63.4-68.5)
Black, non-Hispanic	525	16,345	16.6	(16.1-17.1)
Hispanic	73	7,702	7.8	(6.1-10.1)
Asian/Pacific Islander, non-Hispanic	44	4,244	4.3	(3.2-5.8)
Other, non-Hispanic	61	5,121	5.2	(3.9-6.9)
Education				
Total	1,345	98,433	100.0	
<High School	130	8,219	8.3	(6.7-10.3)
HS Grad/GED	384	25,859	26.3	(23.5-29.2)
Some College	421	28,729	29.2	(26.4-32.2)
College Degree+	410	35,626	36.2	(33.2-39.3)
Pre-Pregnancy Insurance Status				
Total	1,322	97,137	100.0	
Private	731	61,143	62.9	(59.9-65.9)
Medicaid/Public	538	31,314	32.2	(29.4-35.2)
Uninsured	53	4,680	4.8	(3.5-6.6)
Marital Status				
Total	1,349	98,898	100.0	
Married	720	63,420	64.1	(61.2-66.9)
Other	629	35,478	35.9	(33.1-38.8)
Parity				
Total	1,350	98,822	100.0	
No Prior Live Births	518	38,367	38.8	(35.7-42.0)
1	430	33,624	34.0	(31.0-37.2)
2+	402	26,831	27.2	(24.4-30.1)
Last Year's Household Income				
Total	1,155	87,497	100.0	
<\$16,000	193	10,510	12.0	(10.1-14.2)
\$16,001-\$24,000	137	8,386	9.6	(7.8-11.7)
\$24,001-\$40,000	189	11,941	13.6	(11.5-16.1)
\$40,001-\$60,000	171	14,604	16.7	(14.2-19.5)
\$60,001+	465	42,056	48.1	(44.7-51.4)
Federal Need-Based Services Eligibility				
Total	1,352	98,997	100.0	
Not Eligible	480	43,644	44.1	(41.0-47.2)
Yes, Likely Eligible	872	55,353	55.9	(52.8-59.0)

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

Table 2. Distribution of pre-pregnancy maternal body mass index categories, MI PRAMS, 2022

Body Mass Index (BMI)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
BMI Category†				
Underweight	50	3,109	3.1	(2.2-4.5)
Normal Weight	492	38,493	38.9	(35.8-42.1)
Overweight	320	25,077	25.3	(22.6-28.3)
Obese	490	32,319	32.6	(29.7-35.7)

†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: National Research Council. (2009). *Weight gain during pregnancy: reexamining the guidelines*. National Academies Press.

Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	50	3,109	3.1	(2.2-4.5)
Maternal Age				
<20 Years	6	387	13.5	(5.0-32.0)
20-29 Years	27	1,514	3.4	(2.1-5.4)
30+ Years	17	1,208	2.4	(1.3-4.2)
Race/Ethnicity				
White, non-Hispanic	25	2,002	3.1	(1.9-4.9)
Black, non-Hispanic	20	563	3.4	(2.2-5.4)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	10	532	6.5	(2.7-14.7)
HS Grad/GED	19	1,113	4.3	(2.4-7.5)
Some College	13	679	2.4	(1.1-4.9)
College Degree+	8	785	2.2	(1.0-4.6)
Pre-Pregnancy Insurance Status				
Private	19	1,329	2.2	(1.3-3.7)
Medicaid/Public	26	1,629	5.2	(3.2-8.4)
Uninsured			*	
Marital Status				
Married	16	1,178	1.9	(1.0-3.3)
Other	33	1,901	5.4	(3.4-8.3)
Parity				
No previous live birth	22	1,136	3.0	(1.7-5.0)
1	14	1,367	4.1	(2.2-7.3)
2+	14	606	2.3	(1.2-4.3)
Last Year's Household Income				
<\$16,000	8	508	4.8	(1.9-11.6)
\$16,001-\$24,000	9	543	6.5	(2.8-14.1)
\$24,001-\$40,000			*	
\$40,001-\$60,000			*	
\$60,001+	14	1,060	2.5	(1.4-4.6)

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

Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	492	38,493	38.9	(35.8-42.1)
Maternal Age				
<20 Years	20	906	31.7	(18.4-48.8)
20-29 Years	239	17,500	38.8	(34.3-43.6)
30+ Years	233	20,086	39.3	(35.0-43.8)
Race/Ethnicity				
White, non-Hispanic	251	25,317	39.0	(34.9-43.2)
Black, non-Hispanic	154	4,967	30.4	(26.4-34.8)
Hispanic	32	3,011	39.1	(27.2-52.5)
Asian/Pacific Islander, non-Hispanic	19	1,807	42.6	(28.4-58.1)
Other, non-Hispanic	31	2,831	55.3	(40.9-68.9)
Education				
<High School	41	2,799	34.1	(24.2-45.5)
HS Grad/GED	132	9,009	34.8	(29.0-41.1)
Some College	130	9,245	32.2	(26.8-38.0)
College Degree+	185	16,988	47.7	(42.3-53.1)
Pre-Pregnancy Insurance Status				
Private	295	25,972	42.5	(38.4-46.6)
Medicaid/Public	165	9,883	31.6	(26.7-36.9)
Uninsured	20	1,843	39.4	(24.9-56.0)
Marital Status				
Married	292	26,747	42.2	(38.1-46.3)
Other	200	11,746	33.1	(28.5-38.0)
Parity				
No previous live birth	202	17,249	45.0	(39.9-50.1)
1	142	10,455	31.1	(26.2-36.5)
2+	147	10,645	39.7	(33.8-45.8)
Last Year's Household Income				
<\$16,000	62	3,373	32.1	(24.1-41.3)
\$16,001-\$24,000	43	3,044	36.3	(26.6-47.3)
\$24,001-\$40,000	59	3,969	33.2	(25.3-42.3)
\$40,001-\$60,000	61	5,378	36.8	(28.8-45.6)
\$60,001+	192	18,168	43.2	(38.3-48.3)

Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	320	25,077	25.3	(22.6-28.3)
Maternal Age				
<20 Years	18	887	31.0	(17.6-48.6)
20-29 Years	131	10,352	23.0	(19.1-27.4)
30+ Years	171	13,837	27.1	(23.3-31.3)
Race/Ethnicity				
White, non-Hispanic	158	17,281	26.6	(23.0-30.5)
Black, non-Hispanic	122	3,803	23.3	(19.6-27.3)
Hispanic	14	1,678	21.8	(12.6-35.0)
Asian/Pacific Islander, non-Hispanic	16	1,587	37.4	(23.8-53.3)
Other, non-Hispanic	10	728	14.2**	(6.9-26.9)
Education				
<High School	31	2,383	29.0	(19.7-40.5)
HS Grad/GED	79	5,525	21.4	(16.5-27.1)
Some College	98	7,077	24.6	(19.9-30.1)
College Degree+	111	10,071	28.3	(23.6-33.4)
Pre-Pregnancy Insurance Status				
Private	185	16,459	26.9	(23.4-30.8)
Medicaid/Public	116	6,556	20.9	(16.9-25.7)
Uninsured	11	1,498	32.0	(18.4-49.6)
Marital Status				
Married	174	16,774	26.4	(22.9-30.4)
Other	146	8,303	23.4	(19.4-27.9)
Parity				
No previous live birth	120	8,386	21.9	(17.9-26.4)
1	107	9,893	29.4	(24.5-34.9)
2+	93	6,797	25.3	(20.3-31.1)
Last Year's Household Income				
<\$16,000	46	2,567	24.4	(17.3-33.3)
\$16,001-\$24,000	28	1,732	20.6	(13.2-30.8)
\$24,001-\$40,000	43	2,915	24.4	(17.3-33.3)
\$40,001-\$60,000	39	3,748	25.7	(18.7-34.2)
\$60,001+	121	11,533	27.4	(23.1-32.2)

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

Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	490	32,319	32.6	(29.7-35.7)
Maternal Age				
<20 Years	11	678	23.7**	(11.4-42.8)
20-29 Years	234	15,691	34.8	(30.4-39.5)
30+ Years	245	15,950	31.2	(27.3-35.4)
Race/Ethnicity				
White, non-Hispanic	208	20,357	31.3	(27.6-35.4)
Black, non-Hispanic	229	7,011	42.9	(38.5-47.4)
Hispanic	26	2,869	37.2	(25.3-50.9)
Asian/Pacific Islander, non-Hispanic	8	746	17.6**	(8.8-32.1)
Other, non-Hispanic	17	1,265	24.7	(14.4-39.0)
Education				
<High School	48	2,506	30.5	(21.6-41.2)
HS Grad/GED	154	10,212	39.5	(33.4-45.9)
Some College	180	11,727	40.8	(35.2-46.7)
College Degree+	106	7,781	21.8	(17.8-26.5)
Pre-Pregnancy Insurance Status				
Private	232	17,383	28.4	(24.9-32.3)
Medicaid/Public	231	13,246	42.3	(37.0-47.8)
Uninsured	19	1,240	26.5	(15.3-41.9)
Marital Status				
Married	238	18,722	29.5	(25.9-33.4)
Other	250	13,529	38.1	(33.4-43.1)
Parity				
No previous live birth	174	11,596	30.2	(25.7-35.1)
1	167	11,909	35.4	(30.3-40.9)
2+	148	8,783	32.7	(27.4-38.6)
Last Year's Household Income				
<\$16,000	77	4,062	38.7	(30.3-47.8)
\$16,001-\$24,000	57	3,067	36.6	(27.1-47.2)
\$24,001-\$40,000	83	4,917	41.2	(32.6-50.3)
\$40,001-\$60,000	66	5,082	34.8	(27.0-43.5)
\$60,001+	138	11,294	26.9	(22.6-31.5)

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

Table 7. Prevalence of maternal health problems during the 3 months before pregnancy, MI PRAMS, 2022

Maternal Health Problem	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
Anxiety	457	33,470	34.0	(31.0-37.2)
Depression	299	20,034	20.4	(17.9-23.1)
Anemia	256	14,596	14.9	(12.9-17.2)
Asthma	198	11,365	11.6	(9.8-13.7)
Polycystic ovary syndrome (PCOS)	112	8,496	8.7	(7.0-10.7)
Thyroid problems	98	8,225	8.4	(6.8-10.5)
Hypertension	106	5,793	5.9	(4.6-7.5)
Diabetes	66	4,843	4.9	(3.7-6.6)
Heart problems	35	2,926	3.0	(2.0-4.3)
Epilepsy	29	1,794	1.8	(1.1-2.9)

Table 8a. Prevalence of ANY 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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	959	71,768	72.9	(69.9-75.7)
Maternal Age				
<20 Years	35	1,472	51.5	(34.4-68.3)
20-29 Years	418	30,987	69.3	(64.7-73.5)
30+ Years	506	39,309	77.3	(73.3-80.8)
Race/Ethnicity				
White, non-Hispanic	513	51,212	79.0	(75.3-82.3)
Black, non-Hispanic	336	10,361	63.7	(59.3-68.0)
Hispanic	37	3,776	49.2	(36.2-62.4)
Asian/Pacific Islander, non-Hispanic	32	3,199	77.3	(62.0-87.6)
Other, non-Hispanic	35	2,637	53.3	(38.8-67.3)
Education				
<High School	54	3,116	38.0	(28.0-49.2)
HS Grad/GED	235	15,667	61.0	(54.6-67.0)
Some College	306	21,606	75.9	(70.6-80.4)
College Degree+	358	30,861	86.9	(82.8-90.1)
Pre-Pregnancy Insurance Status				
Private	606	51,567	84.7	(81.6-87.4)
Medicaid/Public	318	18,073	58.2	(52.6-63.5)
Uninsured	18	1,296	27.7	(15.9-43.8)
Marital Status				
Married	578	51,007	80.8	(77.2-83.9)
Other	381	20,761	59.0	(53.9-63.9)
Parity				
No previous live birth	378	28,595	75.1	(70.4-79.3)
1	317	25,460	75.9	(70.8-80.4)
2+	262	17,538	65.8	(59.8-71.3)
Last Year's Household Income				
<\$16,000	109	5,288	50.6	(41.4-59.7)
\$16,001-\$24,000	79	5,035	60.0	(49.3-69.9)
\$24,001-\$40,000	130	7,669	64.5	(55.2-72.8)
\$40,001-\$60,000	132	11,479	78.7	(70.8-85.0)
\$60,001+	406	36,592	87.2	(83.4-90.3)

Table 8b. Prevalence of NO 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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	386	26,683	27.1	(24.3-30.1)
Maternal Age				
<20 Years	20	1,386	48.5	(31.7-65.6)
20-29 Years	208	13,725	30.7	(26.5-35.3)
30+ Years	158	11,572	22.7	(19.2-26.7)
Race/Ethnicity				
White, non-Hispanic	128	13,601	21.0	(17.7-24.7)
Black, non-Hispanic	186	5,892	36.3	(32.0-40.7)
Hispanic	35	3,895	50.8	(37.6-63.8)
Asian/Pacific Islander, non-Hispanic	11	941	22.7	(12.4-38.0)
Other, non-Hispanic	25	2,308	46.7	(32.7-61.2)
Education				
<High School	75	5,081	62.0	(50.8-72.0)
HS Grad/GED	147	10,018	39.0	(33.0-45.4)
Some College	112	6,877	24.1	(19.6-29.4)
College Degree+	51	4,661	13.1	(9.9-17.2)
Pre-Pregnancy Insurance Status				
Private	123	9,297	15.3	(12.6-18.4)
Medicaid/Public	216	13,005	41.8	(36.5-47.4)
Uninsured	35	3,384	72.3	(56.2-84.1)
Marital Status				
Married	139	12,143	19.2	(16.1-22.8)
Other	244	14,441	41.0	(36.1-46.1)
Parity				
No previous live birth	137	9,493	24.9	(20.7-29.6)
1	110	8,072	24.1	(19.6-29.2)
2+	139	9,117	34.2	(28.7-40.2)
Last Year's Household Income				
<\$16,000	82	5,169	49.4	(40.3-58.6)
\$16,001-\$24,000	58	3,350	40.0	(30.1-50.7)
\$24,001-\$40,000	58	4,227	35.5	(27.2-44.8)
\$40,001-\$60,000	38	3,102	21.3	(15.0-29.2)
\$60,001+	58	5,361	12.8	(9.7-16.6)

Table 9. Type of healthcare visits among mothers reporting any healthcare visits in the 12 months before pregnancy, MI PRAMS, 2022

Type of visit	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Type of Visit (non-exclusive)				
OB/GYN check up	572	43,190	60.2	(56.4-63.8)
Dentist	535	43,176	60.1	(56.4-63.7)
Family doctor check up	586	42,380	59.3	(55.5-63.0)
Family planning/Birth control	169	13,123	18.3	(15.5-21.4)
Depression/Anxiety	171	12,651	17.6	(14.9-20.7)
Illness	135	10,034	14.0	(11.6-16.8)
Injury	36	2,546	3.5	(2.4-5.2)
Other	99	8,531	11.9	(9.6-14.7)

Table 10. Type of counseling/screening among mothers reporting any healthcare visits in the 12 months before pregnancy, MI PRAMS, 2022

Type of counseling/screening	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Type (non-exclusive)				
Smoking screening	771	57,292	80.5	(77.3-83.3)
Current job duties	692	51,970	73.8	(70.3-77.0)
Depression screening	703	51,953	72.7	(69.2-76.0)
Emotional and physical abuse screening	645	47,408	66.6	(62.9-70.1)
Family planning	434	33,248	46.7	(42.9-50.5)
Birth control	452	32,734	45.9	(42.1-49.7)
Folic acid vitamins	335	27,496	38.7	(35.0-42.5)
Healthy weight	370	26,420	37.1	(33.5-40.8)
HIV test administered	377	22,799	32.4	(29.0-35.9)
Improving pre-conception health	300	21,452	30.1	(26.8-33.7)
STI discussions	311	18,818	26.5	(23.3-29.8)
Controlling medical conditions before pregnancy (e.g., diabetes/high blood pressure)	157	9,357	13.1	(10.9-15.8)

Table 11. Frequency of taking a folate-containing vitamin in the month before pregnancy, MI PRAMS, 2022

Frequency of vitamin use	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Frequency of vitamin use				
Didn't take a vitamin	634	44,466	45.1	(41.9-48.3)
1-3 times per week	142	9,088	9.2	(7.6-11.2)
4-6 times per week	73	5,488	5.6	(4.2-7.3)
Every day of the week	499	39,589	40.1	(37.0-43.4)

Table 12. Prevalence of not consuming a folic acid containing vitamin in the month before pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	634	44,466	45.1	(41.9-48.3)
Maternal Age				
<20 Years	38	2,302	80.6**	(66.5-89.6)
20-29 Years	345	23,586	52.4	(47.5-57.2)
30+ Years	251	18,578	36.6	(32.4-41.1)
Race/Ethnicity				
White, non-Hispanic	264	27,419	42.2	(38.1-46.5)
Black, non-Hispanic	285	8,949	54.9	(50.4-59.4)
Hispanic	41	4,414	57.3	(43.9-69.7)
Asian/Pacific Islander, non-Hispanic	13	1,329	31.3	(18.9-47.1)
Other, non-Hispanic	29	2,199	45.8	(31.9-60.4)
Education				
<High School	84	5,491	68.0	(56.9-77.4)
HS Grad/GED	227	15,356	59.4	(53.0-65.5)
Some College	212	14,208	49.8	(44.0-55.7)
College Degree+	110	9,365	26.3	(21.8-31.3)
Pre-Pregnancy Insurance Status				
Uninsured	255	20,236	33.3	(29.5-37.3)
Medicaid/Public	325	19,692	62.9	(57.5-68.0)
Private	38	3,373	72.1	(56.0-83.9)
Marital Status				
Married	249	21,522	34.0	(30.2-38.1)
Other	382	22,845	64.7	(59.9-69.2)
Parity				
No previous live birth	228	15,491	40.4	(35.5-45.5)
1	197	14,830	44.1	(38.6-49.8)
2+	209	14,145	53.4	(47.2-59.4)
Last Year's Household Income				
<\$16,000	117	6,513	62.8	(53.5-71.3)
\$16,001-\$24,000	73	4,434	53.0	(42.3-63.5)
\$24,001-\$40,000	109	7,555	63.3	(54.3-71.4)
\$40,001-\$60,000	88	7,290	50.0	(41.3-58.7)
\$60,001+	136	12,077	28.7	(24.3-33.5)

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

Explanation of Pregnancy Intention, Pregnancy Timing, and Contraceptive Behavior

Michigan PRAMS asks respondents 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. Respondents 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 those with an "intended" pregnancy. Those 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 (2016-2022), a fifth pregnancy intention response option is offered. Those 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 those 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 respondents 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 respondents 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, 2022

Intention	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Intended	763	62,505	63.4	(60.3-66.4)
Unintended	321	20,587	20.9	(18.4-23.6)
Unsure	262	15,521	15.7	(13.6-18.1)

Table 14. Distribution of unintended pregnancy subtypes among mothers reporting either unsure or unintended pregnancy, MI PRAMS, 2022

Unintended Pregnancy Subtype	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Mistimed	226	14,689	40.7	(35.7-45.8)
Did not want to be pregnant then or at any time in the future	95	5,898	16.3	(12.9-20.5)
Unsure	262	15,521	43.0	(38.0-48.1)

Table 15. Prevalence of unintended pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	321	20,587	20.9	(18.4-23.6)
Maternal Age				
<20 Years	21	910	32.2	(18.7-49.6)
20-29 Years	187	11,613	26.0	(22.1-30.3)
30+ Years	113	8,064	15.8	(12.8-19.3)
Race/Ethnicity				
White, non-Hispanic	117	11,862	18.4	(15.3-21.9)
Black, non-Hispanic	167	5,310	32.6	(28.5-37.0)
Hispanic	19	1,833	23.8	(14.4-36.7)
Asian/Pacific Islander, non-Hispanic	7	608	14.3**	(6.5-28.5)
Other, non-Hispanic	9	825	16.1**	(7.7-30.6)
Education				
<High School	39	2,577	31.3	(22.0-42.6)
HS Grad/GED	116	6,719	26.2	(21.2-32.0)
Some College	103	6,440	22.5	(18.0-27.8)
College Degree+	61	4,799	13.5	(10.2-17.5)
Pre-Pregnancy Insurance Status				
Private	135	9,802	16.0	(13.3-19.2)
Medicaid/Public	160	8,575	27.7	(23.1-32.8)
Uninsured	17	1,861	39.8	(25.1-56.5)
Marital Status				
Married	109	8,979	14.2	(11.5-17.3)
Other	211	11,577	33.0	(28.4-37.8)
Parity				
No previous live birth	112	7,183	18.8	(15.2-23.1)
1	97	6,468	19.3	(15.3-24.1)
2+	112	6,936	25.9	(21.0-31.5)
Last Year's Household Income				
<\$16,000	69	3,844	36.9	(28.4-46.3)
\$16,001-\$24,000	42	2,548	30.9	(22.0-41.5)
\$24,001-\$40,000	52	2,842	23.8	(17.1-32.1)
\$40,001-\$60,000	43	2,979	20.4	(14.5-28.0)
\$60,001+	67	5,693	13.6	(10.5-17.4)

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

**Table 16. Distribution of contraceptive behaviors at the time of conception,
MI PRAMS, 2022**

Contraceptive Practice Subtype	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Trying to conceive	702	58,952	60.1	(57.0-63.2)
Avoiding pregnancy	231	14,795	15.1	(13.0-17.5)
Neither trying nor avoiding pregnancy	411	24,317	24.8	(22.2-27.6)

Table 17. Prevalence of trying to conceive during the pre-pregnancy period by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	702	58,952	60.1	(57.0-63.2)
Maternal Age				
<20 Years	8	497	17.4**	(7.2-36.3)
20-29 Years	286	25,087	56.5	(51.8-61.1)
30+ Years	408	33,368	65.7	(61.3-69.8)
Race/Ethnicity				
White, non-Hispanic	413	41,445	64.5	(60.3-68.5)
Black, non-Hispanic	171	5,250	32.3	(28.2-36.7)
Hispanic	45	5,214	67.7	(54.3-78.7)
Asian/Pacific Islander, non-Hispanic	33	3,182	75.0	(59.3-86.0)
Other, non-Hispanic	37	3,452	69.3	(54.7-80.9)
Education				
<High School	40	3,399	43.6	(32.6-55.3)
HS Grad/GED	150	11,964	47.0	(40.7-53.4)
Some College	205	15,758	55.0	(49.1-60.8)
College Degree+	303	27,365	76.8	(72.0-81.0)
Pre-Pregnancy Insurance Status				
Private	476	43,000	70.7	(66.8-74.2)
Medicaid/Public	192	13,238	43.1	(37.7-48.7)
Uninsured	21	1,762	37.6	(23.5-54.3)
Marital Status				
Married	519	47,435	75.0	(71.2-78.4)
Other	183	11,517	33.2	(28.5-38.2)
Parity				
No previous live birth	281	23,813	62.6	(57.6-67.3)
1	251	21,577	64.8	(59.3-70.0)
2+	168	13,387	50.4	(44.3-56.5)
Last Year's Household Income				
<\$16,000	62	3,748	35.7	(27.4-44.9)
\$16,001-\$24,000	38	2,660	33.0	(23.5-44.2)
\$24,001-\$40,000	81	6,057	50.9	(41.9-59.9)
\$40,001-\$60,000	95	8,982	61.5	(52.8-69.5)
\$60,001+	344	32,191	76.8	(72.3-80.7)

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

Table 18. Prevalence of becoming pregnant despite using contraceptive practices by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	231	14,795	15.1	(13.0-17.5)
Maternal Age				
<20 Years	24	1,268	44.4	(28.3-61.8)
20-29 Years	117	7,219	16.3	(13.1-20.0)
30+ Years	90	6,308	12.4	(9.8-15.6)
Race/Ethnicity				
White, non-Hispanic	92	9,548	14.9	(12.1-18.2)
Black, non-Hispanic	116	3,639	22.4	(18.8-26.4)
Hispanic	10	690	9.0**	(4.1-18.5)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	8	525	10.5**	(4.6-22.4)
Education				
<High School	23	1,112	14.3	(8.4-23.2)
HS Grad/GED	76	4,279	16.8	(12.7-21.9)
Some College	90	5,888	20.6	(16.2-25.7)
College Degree+	41	3,485	9.8	(7.0-13.5)
Pre-Pregnancy Insurance Status				
Private	89	6,552	10.8	(8.5-13.5)
Medicaid/Public	120	6,333	20.6	(16.6-25.3)
Uninsured	15	1,455	31.1	(18.3-47.6)
Marital Status				
Married	76	6,562	10.4	(8.1-13.2)
Other	154	8,187	23.6	(19.6-28.1)
Parity				
No previous live birth	86	5,489	14.4	(11.2-18.3)
1	54	3,564	10.7	(7.8-14.5)
2+	91	5,743	21.6	(17.1-27.0)
Last Year's Household Income				
<\$16,000	37	1,875	17.8	(11.8-26.0)
\$16,001-\$24,000	40	2,475	30.7	(21.8-41.5)
\$24,001-\$40,000	38	1,921	16.2	(10.8-23.5)
\$40,001-\$60,000	32	2,369	16.2	(10.9-23.5)
\$60,001+	49	4,256	10.2	(7.5-13.6)

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

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

Table 19. Prevalence of contraception methods that were used by mothers who became pregnant despite using contraceptive practices, MI PRAMS, 2022

Method Used	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Method (non-exclusive)				
Withdrawal	103	6,524	42.9	(35.2-50.9)
Condoms	88	5,165	33.9	(26.9-41.7)
Oral contraceptives	50	3,210	21.1	(15.3-28.3)
Rhythm method	25	2,055	13.5	(8.7-20.3)
Shot every 3 months	10	591	3.9**	(1.7-8.5)
Contraceptive patch or ring	6	547	3.6**	(1.5-8.5)
Intrauterine device			*	
Contraceptive implant			*	
Other method	16	1,254	8.2	(4.7-14.2)

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

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

Table 20. Prevalence of mothers who were not trying to conceive - but were not doing anything to prevent pregnancy - by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	411	24,317	24.8	(22.2-27.6)
Maternal Age				
<20 Years	23	1,093	38.2	(23.4-55.7)
20-29 Years	222	12,096	27.2	(23.3-31.5)
30+ Years	166	11,128	21.9	(18.5-25.8)
Race/Ethnicity				
White, non-Hispanic	132	13,267	20.6	(17.4-24.3)
Black, non-Hispanic	236	7,365	45.3	(40.8-49.9)
Hispanic	18	1,798	23.3	(13.9-36.6)
Asian/Pacific Islander, non-Hispanic	8	824	19.4**	(9.8-34.9)
Other, non-Hispanic	15	1,001	20.1	(10.8-34.4)
Education				
<High School	64	3,277	42.1	(31.6-53.4)
HS Grad/GED	155	9,207	36.2	(30.4-42.4)
Some College	124	6,991	24.4	(19.8-29.7)
College Degree+	66	4,776	13.4	(10.2-17.4)
Pre-Pregnancy Insurance Status				
Uninsured	164	11,303	18.6	(15.6-22.0)
Medicaid/Public	221	11,144	36.3	(31.3-41.6)
Private	17	1,464	31.3	(18.2-48.2)
Marital Status				
Married	124	9,280	14.7	(12.0-17.8)
Other	285	14,984	43.2	(38.3-48.2)
Parity				
No previous live births	148	8,742	23.0	(19.1-27.4)
1	122	8,150	24.5	(19.9-29.7)
2+	141	7,425	28.0	(23.1-33.5)
Last Year's Household Income				
<\$16,000	94	4,887	46.5	(37.5-55.7)
\$16,001-\$24,000	56	2,917	36.2	(26.6-47.1)
\$24,001-\$40,000	69	3,916	32.9	(25.1-41.9)
\$40,001-\$60,000	44	3,254	22.3	(16.0-30.2)
\$60,001+	71	5,476	13.1	(10.1-16.8)

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

Table 21. Reasons mothers who were not trying to conceive - but were not doing anything to prevent pregnancy - did not use contraceptives, MI PRAMS, 2022

Reason	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reason (non-exclusive)				
Didn't mind getting pregnant	191	12,429	50.5	(44.3-56.7)
Thought couldn't get pregnant at that time	102	5,390	21.9	(17.3-27.2)
Partner didn't want to use birth control	61	3,662	14.9	(10.9-20.0)
Side effects from birth control	53	2,684	10.9	(7.7-15.1)
Thought self/partner sterile	27	1,669	6.8	(4.2-10.7)
Forgot to use birth control	29	1,597	6.5	(4.2-9.9)
Problems getting birth control	10	647	2.6**	(1.2-5.8)
Other reason	48	4,028	16.3	(11.9-22.0)

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

Table 22. Prevalence of using any postpartum contraceptive method by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	998	73,945	75.5	(72.6-78.2)
Maternal Age				
<20 Years	42	2,088	76.6**	(58.2-88.5)
20-29 Years	460	34,316	76.9	(72.6-80.6)
30+ Years	496	37,541	74.3	(70.1-78.1)
Race/Ethnicity				
White, non-Hispanic	493	50,113	77.4	(73.6-80.8)
Black, non-Hispanic	378	11,805	73.4	(69.2-77.3)
Hispanic	49	5,280	70.0	(56.5-80.8)
Asian/Pacific Islander, non-Hispanic	31	3,033	71.5	(55.6-83.4)
Other, non-Hispanic	41	3,220	69.0	(53.8-80.9)
Education				
<High School	91	5,878	71.9	(61.0-80.7)
HS Grad/GED	275	18,970	75.0	(69.1-80.1)
Some College	315	21,473	75.4	(69.9-80.2)
College Degree+	312	27,239	77.0	(72.1-81.2)
Post-Pregnancy Insurance Status				
Private	517	43,894	75.7	(71.8-79.2)
Medicaid/Public	446	27,381	76.1	(71.4-80.1)
Uninsured	15	1,369	76.5**	(49.9-91.4)
Marital Status				
Married	535	47,118	74.7	(70.8-78.1)
Other	460	26,729	77.0	(72.6-80.9)
Parity				
No previous live birth	351	26,470	70.1	(65.2-74.7)
1	336	26,555	79.7	(74.7-83.8)
2+	310	20,776	77.9	(72.4-82.6)
Last Year's Household Income				
<\$16,000	137	8,040	76.8	(68.8-83.3)
\$16,001-\$24,000	95	5,954	72.3	(61.7-80.9)
\$24,001-\$40,000	152	9,268	77.7	(68.9-84.6)
\$40,001-\$60,000	131	11,244	77.0	(68.8-83.6)
\$60,001+	353	31,967	76.5	(71.9-80.5)

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

Table 23. Prevalence of postpartum contraceptive methods among those using any method, MI PRAMS, 2022

Method	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Pregnancy prevention method (non-exclusive)				
Condoms	291	23,301	31.4	(28.0-35.0)
Withdrawal	192	15,889	21.4	(18.5-24.7)
Oral contraceptives	198	14,652	19.8	(17.0-22.9)
Intrauterine device	139	10,487	14.1	(11.7-17.0)
Abstinence	132	9,735	13.1	(10.8-15.9)
Tubal ligation	103	7,388	10.0	(7.9-12.4)
Rhythm method	53	4,598	6.2	(4.6-8.4)
Shot every 3 months	79	4,387	5.9	(4.5-7.7)
Partner had vasectomy	45	3,630	4.9	(3.5-6.8)
Contraceptive implant	37	2,863	3.9	(2.6-5.7)
Contraceptive patch or vaginal ring	15	938	1.3**	(0.7-2.4)
Other method	25	1,854	2.5	(1.6-4.0)

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

Table 24. Prevalence of no postpartum contraceptive methods by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	339	23,960	24.5	(21.8-27.4)
Maternal Age				
<20 Years	12	637	23.4**	(11.5-41.8)
20-29 Years	164	10,334	23.1	(19.4-27.4)
30+ Years	163	12,990	25.7	(21.9-29.9)
Race/Ethnicity				
White, non-Hispanic	147	14,638	22.6	(19.2-26.4)
Black, non-Hispanic	139	4,269	26.6	(22.7-30.8)
Hispanic	22	2,261	30.0	(19.2-43.5)
Asian/Pacific Islander, non-Hispanic	13	1,211	28.5	(16.6-44.4)
Other, non-Hispanic	17	1,448	31.0	(19.1-46.2)
Education				
<High School	38	2,295	28.1	(19.3-39.0)
HS Grad/GED	101	6,328	25.0	(19.9-30.9)
Some College	103	7,012	24.6	(19.8-30.1)
College Degree+	95	8,148	23.0	(18.8-27.9)
Pre-Pregnancy Insurance Status				
Private	165	14,086	24.3	(20.8-28.2)
Medicaid/Public	157	8,621	23.9	(19.9-28.6)
Uninsured	6	420	23.5**	(8.6-50.1)
Marital Status				
Married	180	15,990	25.3	(21.9-29.2)
Other	159	7,971	23.0	(19.1-27.4)
Parity				
No previous live birth	159	11,272	29.9	(25.3-34.8)
1	88	6,778	20.3	(16.2-25.3)
2+	91	5,879	22.1	(17.4-27.6)
Last Year's Household Income				
<\$16,000	55	2,424	23.2	(16.7-31.2)
\$16,001-\$24,000	40	2,277	27.7	(19.1-38.3)
\$24,001-\$40,000	36	2,656	22.3	(15.4-31.1)
\$40,001-\$60,000	40	3,360	23.0	(16.4-31.2)
\$60,001+	109	9,836	23.5	(19.5-28.1)

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

**Table 25. Reasons for not using any postpartum contraception,
MI PRAMS, 2022**

Reason	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reason (non-exclusive)				
Mother does not want to use Birth control	139	10,273	42.3	(36.1-48.9)
Not having sex	105	6,813	28.1	(22.8-34.1)
Side effects from birth control	81	6,010	24.8	(19.5-30.9)
Wants to get pregnant	51	4,274	17.6	(13.0-23.4)
Partner does not want to use anything	29	1,733	7.1	(4.5-11.2)
Mother had tubes tied	6	354	1.5**	(0.5-3.9)
Pregnant now			*	
Problems paying for birth control			*	
Other reason	60	4,938	20.4	(15.5-26.2)

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

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

**Table 26. Trimester of entry into prenatal care,
MI PRAMS, 2022**

Trimester of entry	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
1st Trimester	1,120	84,638	87.5	(85.2-89.4)
2nd Trimester	163	9,704	10.0	(8.3-12.1)
3rd Trimester	18	1,176	1.2**	(0.7-2.2)
No prenatal care	16	1,246	1.3**	(0.7-2.3)

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

**Table 27. Source of payments for prenatal care,
MI PRAMS, 2022**

Source of prenatal care payment	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Source of payment (non-exclusive)				
Did not have prenatal care	46	2,938	3.0	(2.0-4.3)
Private - from work	587	50,814	52.9	(49.7-56.1)
Medicaid	653	39,605	41.2	(38.2-44.4)
Private - from parent	82	6,343	6.6	(5.1-8.5)
Private - from MI Health Insurance Marketplace	39	3,218	3.4	(2.3-4.8)
Private - TRICARE/other military	10	861	0.9**	(0.4-1.8)
Other government	7	839	0.9**	(0.4-2.0)
Uninsured during pregnancy	7	735	0.8**	(0.3-1.7)
Indian Health Services or other tribal			*	
Other	33	2,017	2.1	(1.4-3.2)

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

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

Table 28. Prevalence of first trimester entry into prenatal care by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,120	84,638	87.5	(85.2-89.4)
Maternal Age				
<20 Years	33	1,695	60.0	(41.8-75.8)
20-29 Years	529	39,118	88.2	(84.9-90.9)
30+ Years	558	43,825	88.4	(85.1-91.0)
Race/Ethnicity				
White, non-Hispanic	580	58,240	91.6	(88.7-93.7)
Black, non-Hispanic	394	12,162	77.0	(72.8-80.7)
Hispanic	58	5,900	76.6	(63.3-86.2)
Asian/Pacific Islander, non-Hispanic	37	3,744	88.7**	(75.7-95.2)
Other, non-Hispanic	46	4,003	82.8**	(69.0-91.3)
Education				
<High School	81	5,294	66.5	(55.1-76.3)
HS Grad/GED	296	20,219	81.6	(76.2-86.1)
Some College	359	25,332	89.4	(85.2-92.5)
College Degree+	377	33,229	94.6	(91.6-96.5)
Pre-Pregnancy Insurance Status				
Private	653	55,978	93.1	(90.7-94.9)
Medicaid/Public	410	24,318	80.6	(75.9-84.6)
Uninsured	39	3,236	69.8	(52.6-82.8)
Marital Status				
Married	636	57,078	91.7	(89.0-93.7)
Other	483	27,529	80.0	(75.6-83.8)
Parity				
No previous live birth	445	33,443	89.0	(85.2-91.8)
1	363	29,709	90.0	(86.2-92.9)
2+	310	21,312	82.0	(76.8-86.2)
Last Year's Household Income				
<\$16,000	146	7,910	78.2	(69.5-84.9)
\$16,001-\$24,000	106	6,236	76.7	(65.6-85.1)
\$24,001-\$40,000	149	10,182	86.2	(79.3-91.0)
\$40,001-\$60,000	156	13,707	94.1**	(88.7-97.0)
\$60,001+	432	39,419	94.6	(91.8-96.4)

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

Table 29. Prevalence of getting prenatal care as early as wanted, MI PRAMS, 2022

Got care as early as wanted	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
No	193	13,637	14.0	(11.9-16.5)
Yes	1,138	83,690	86.0	(83.5-88.1)

Table 30. Prevalence of getting prenatal care as early as wanted by first trimester entry into prenatal care, MI PRAMS, 2022

Trimester of Entry to Prenatal Care	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
First Trimester				
Yes, started PNC as early as wanted	1,016	76,376	90.5	(88.1-92.4)
No, wanted to start PNC earlier	102	8,027	9.5	(7.6-11.9)
After First Trimester				
Yes, started PNC as early as wanted	93	5,446	50.2	(40.8-59.5)
No, wanted to start PNC earlier	87	5,413	49.8	(40.5-59.2)

Table 31. Barriers to starting prenatal care as early as wanted among mothers who began prenatal care during the first trimester, MI PRAMS, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Barrier (non-exclusive)				
Could not get appt when I wanted one	51	4,034	53.0	(41.0-64.6)
Doctor/health plan would not start as early as I wanted	39	3,620	45.7	(34.3-57.6)
Too many other things	16	1,299	17.1	(9.8-28.1)
Did not know pregnant	21	1,121	14.9	(8.5-24.6)
No childcare	10	847	11.1**	(5.5-21.0)
No Medicaid card	8	720	9.4**	(4.3-19.3)
No transportation	10	687	9.1**	(4.2-18.5)
No time off from work or school	6	463	6.0**	(2.4-14.5)
Not enough money to pay			*	(1.6-13.6)
Did not want prenatal care			*	(0.9-13.7)
Wanted to keep pregnancy secret			*	(0.6-9.9)

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

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

Table 32. Barriers to starting prenatal care as early as wanted among mothers who began prenatal care after the first trimester, MI PRAMS, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Barrier (non-exclusive)				
Too many other things	27	1,712	28.1	(17.9-41.1)
Did not know pregnant	32	1,631	27.4	(17.7-39.7)
Could not get appt when I wanted one	24	1,463	24.7	(15.3-37.2)
No transportation	15	1,106	18.1	(9.9-30.6)
No time off from work or school	13	1,029	17.4**	(9.2-30.6)
Not enough money to pay	14	1,000	16.9**	(8.9-29.7)
No childcare	11	849	14.3**	(6.9-27.3)
Wanted to keep pregnancy secret	12	647	10.8**	(5.2-21.1)
Doctor/health plan would not start as early as I wanted	11	625	10.5**	(4.9-21.1)
Did not want prenatal care	11	585	9.9**	(4.9-19.1)
No Medicaid card	10	552	9.5**	(4.2-20.4)

**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, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Topic (non-exclusive)				
Using prescription medicine during pregnancy	1,271	94,064	97.0	(95.8-97.8)
Using alcohol during pregnancy	1,270	93,389	96.4	(95.1-97.4)
Smoking during pregnancy	1,268	93,327	96.1	(94.7-97.1)
Planning to breastfeed	1,204	86,917	89.7	(87.6-91.5)
Feeling down or depressed	1,181	86,517	89.1	(87.0-90.9)
Using illegal drugs during pregnancy	1,175	85,537	88.4	(86.2-90.3)
Experiencing emotional or physical abuse	1,146	82,921	85.4	(83.0-87.6)
Planning to use contraception postpartum	1,088	77,139	79.6	(76.9-82.0)
Offered HIV testing	870	62,244	65.4	(62.2-68.5)
Knowledge of appropriate weight gain	672	48,362	50.3	(47.0-53.6)

Table 34. Prevalence of health complications during pregnancy, MI PRAMS, 2022

Pregnancy Complications	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Depression	298	19,252	19.6	(17.2-22.3)
High blood pressure (starting in pregnancy)	307	18,843	19.2	(16.9-21.8)
Severe nausea, vomiting, dehydration	252	15,920	16.2	(14.0-18.7)
Gestational diabetes (starting in pregnancy)	150	11,680	12.0	(10.0-14.3)
Kidney/bladder infection	151	10,325	10.5	(8.7-12.7)

Table 35. Prevalence of any smoking in 3 months before pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	160	11,764	12.0	(10.0-14.3)
Maternal Age				
<20 Years			*	
20-29 Years	77	5,957	13.3	(10.3-17.0)
30+ Years	78	5,520	10.9	(8.4-14.1)
Race/Ethnicity				
White, non-Hispanic	94	8,991	13.9	(11.2-17.2)
Black, non-Hispanic	48	1,463	9.0	(6.7-11.9)
Hispanic	10	902	11.7	(5.5-23.2)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	31	2,437	29.6	(20.2-41.2)
HS Grad/GED	68	4,906	19.2	(14.6-24.9)
Some College	49	3,203	11.2	(7.9-15.5)
College Degree+	12	1,218	3.5	(1.9-6.1)
Pre-Pregnancy Insurance Status				
Private	48	3,582	5.9	(4.3-8.2)
Medicaid/Public	98	7,147	22.9	(18.4-28.1)
Uninsured	10	920	19.7**	(9.6-36.1)
Marital Status				
Married	39	3,573	5.7	(4.0-8.1)
Other	121	8,191	23.1	(19.0-27.8)
Parity				
No previous live birth	53	4,256	11.2	(8.3-14.9)
1	47	3,272	9.8	(6.9-13.8)
2+	60	4,235	15.9	(11.8-21.1)
Last Year's Household Income				
<\$16,000	42	2,749	26.2	(18.6-35.5)
\$16,001-\$24,000	20	1,659	19.9	(12.1-30.7)
\$24,001-\$40,000	38	2,761	23.1	(16.1-32.1)
\$40,001-\$60,000	17	1,367	9.4	(5.4-16.0)
\$60,001+	22	1,798	4.3	(2.7-6.8)

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

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

Table 36. Prevalence of any smoking in last 3 months of pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	83	5,578	5.7	(4.3-7.4)
Maternal Age				
<20 Years			*	
20-29 Years	39	2,911	6.5	(4.4-9.4)
30+ Years	40	2,396	4.7	(3.2-7.0)
Race/Ethnicity				
White, non-Hispanic	51	4,628	7.2	(5.2-9.8)
Black, non-Hispanic	28	839	5.2	(3.5-7.5)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	19	1,734	21.1	(12.9-32.6)
HS Grad/GED	35	2,043	8.0	(5.3-12.0)
Some College	27	1,595	5.6	(3.4-8.9)
College Degree+			*	
Pregnancy Insurance Status				
Medicaid/Public	20	1,181	2.0	(1.1-3.5)
Private	57	3,824	11.0	(8.0-14.9)
Marital Status				
Married	16	1,227	2.0**	(1.1-3.6)
Other	67	4,350	12.3	(9.2-16.2)
Parity				
No previous live birth	23	1,404	3.7	(2.2-6.0)
1	24	1,799	5.4	(3.3-8.8)
2+	36	2,375	8.9	(5.9-13.1)
Last Year's Household Income				
<\$16,000	27	1,740	16.6	(10.5-25.2)
\$16,001-\$24,000	12	1,151	13.7**	(7.4-24.1)
\$24,001-\$40,000	22	1,226	10.3	(5.9-17.2)
\$40,001-\$60,000	8	450	3.1**	(1.2-7.5)
\$60,001+	6	317	0.8**	(0.3-2.0)

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

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

Table 37. Prevalence of any smoking after pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	99	6,906	7.0	(5.5-8.9)
Maternal Age				
<20 Years			*	
20-29 Years	47	3,783	8.5	(6.1-11.7)
30+ Years	49	2,884	5.7	(4.0-8.1)
Race/Ethnicity				
White, non-Hispanic	58	5,543	8.6	(6.5-11.4)
Black, non-Hispanic	35	1,102	6.8	(4.8-9.5)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	20	1,767	21.5	(13.2-33.0)
HS Grad/GED	46	2,951	11.6	(8.2-16.2)
Some College	29	1,747	6.1	(3.8-9.6)
College Degree+			*	
Post-Pregnancy Insurance Status				
Private	23	1,632	2.8	(1.7-4.6)
Medicaid/Public	72	5,034	13.8	(10.5-17.9)
Uninsured			*	
Marital Status				
Married	20	1,458	2.3	(1.3-4.0)
Other	79	5,448	15.4	(11.9-19.7)
Parity				
No previous live birth	27	1,971	5.2	(3.3-8.0)
1	31	2,073	6.2	(3.9-9.7)
2+	41	2,863	10.7	(7.4-15.3)
Last Year's Household Income				
<\$16,000	33	2,054	19.5	(13.0-28.3)
\$16,001-\$24,000	12	1,151	13.7**	(7.4-24.1)
\$24,001-\$40,000	22	1,559	13.1	(7.8-21.0)
\$40,001-\$60,000	8	450	3.1**	(1.2-7.5)
\$60,001+	10	724	1.7**	(0.8-3.6)

*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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	140	9,331	9.5	(7.8-11.5)
Maternal Age				
<20 Years	11	552	19.3**	(9.3-35.9)
20-29 Years	97	6,421	14.3	(11.3-18.0)
30+ Years	32	2,358	4.7	(3.1-7.0)
Race/Ethnicity				
White, non-Hispanic	80	7,263	11.3	(8.9-14.2)
Black, non-Hispanic	47	1,368	8.4	(6.3-11.3)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	23	1,316	16.0	(9.6-25.5)
HS Grad/GED	49	3,223	12.6	(9.0-17.4)
Some College	53	3,276	11.5	(8.3-15.9)
College Degree+	15	1,517	4.3	(2.5-7.2)
Pre-Pregnancy Insurance Status				
Private	48	3,338	5.5	(3.9-7.6)
Medicaid/Public	80	5,008	16.2	(12.5-20.7)
Uninsured	10	908	20.0**	(9.8-36.5)
Marital Status				
Married	35	2,782	4.4	(3.0-6.5)
Other	105	6,549	18.7	(15.0-23.1)
Parity				
No previous live birth	61	4,329	11.3	(8.4-15.0)
1	48	3,174	9.6	(6.8-13.4)
2+	31	1,828	6.9	(4.4-10.5)
Last Year's Household Income				
<\$16,000	32	1,977	19.5	(13.0-28.3)
\$16,001-\$24,000	22	1,562	18.7	(11.5-28.9)
\$24,001-\$40,000	29	1,371	11.5	(7.3-17.8)
\$40,001-\$60,000	15	1,396	9.6	(5.5-16.3)
\$60,001+	27	2,227	5.3	(3.4-8.1)

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

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

**Table 39. Prevalence of electronic cigarette usage during the last 3 months of pregnancy,
MI PRAMS, 2022**

E-cigarette Usage	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
No	1,287	94,392	96.1	(94.6-97.2)
Yes	55	3,832	3.9	(2.8-5.4)

Table 40. Prevalence of hookah usage in 2 years before survey completion by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	77	3,794	3.9	(3.0-5.0)
Maternal Age				
<20 Years			*	
20-29 Years	44	2,114	4.7	(3.3-6.7)
30+ Years	29	1,525	3.0	(2.0-4.6)
Race/Ethnicity				
White, non-Hispanic	16	1,413	2.2	(1.3-3.7)
Black, non-Hispanic	56	2,022	12.6	(9.7-16.1)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	11	364	4.6	(2.4-8.4)
HS Grad/GED	25	1,220	4.8	(3.0-7.6)
Some College	27	1,326	4.7	(2.9-7.4)
College Degree+	14	884	2.5**	(1.4-4.5)
Pre-Pregnancy Insurance Status				
Private	30	1,853	3.1	(2.0-4.6)
Medicaid/Public	38	1,480	4.7	(3.3-6.8)
Uninsured			*	
Marital Status				
Married	21	1,640	2.6	(1.6-4.3)
Other	54	2,076	5.9	(4.4-7.8)
Parity				
No previous live birth	32	1,554	4.1	(2.8-6.0)
1	22	1,229	3.7	(2.2-6.3)
2+	23	1,011	3.8	(2.4-6.0)
Last Year's Household Income				
<\$16,000	19	686	6.7	(4.2-10.5)
\$16,001-\$24,000	11	473	5.7**	(2.8-11.5)
\$24,001-\$40,000	17	952	8.0	(4.6-13.7)
\$40,001-\$60,000			*	
\$60,001+	14	959	2.3	(1.2-4.3)

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

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

Table 41. Prevalence of cannabis usage in 12 months before pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	375	23,406	23.9	(21.3-26.7)
Maternal Age				
<20 Years	24	1,139	39.9	(24.7-57.2)
20-29 Years	214	12,939	29.0	(24.9-33.4)
30+ Years	137	9,328	18.5	(15.3-22.2)
Race/Ethnicity				
White, non-Hispanic	165	15,502	24.1	(20.6-27.9)
Black, non-Hispanic	175	5,340	33.1	(29.0-37.6)
Hispanic	20	1,649	21.8	(12.9-34.4)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	11	662	13.3**	(6.3-26.0)
Education				
<High School	47	2,604	31.7	(22.5-42.6)
HS Grad/GED	142	8,158	32.1	(26.6-38.2)
Some College	130	8,185	28.8	(23.8-34.4)
College Degree+	55	4,315	12.2	(9.1-16.1)
Pre-Pregnancy Insurance Status				
Private	142	10,110	16.6	(13.8-19.9)
Medicaid/Public	211	11,667	37.9	(32.7-43.4)
None	14	1,345	29.0	(16.3-46.2)
Marital Status				
Married	109	8,586	13.6	(11.0-16.7)
Other	266	14,820	42.5	(37.6-47.6)
Parity				
No previous live birth	164	10,949	28.7	(24.4-33.5)
1	109	6,965	20.9	(16.7-25.8)
2+	101	5,460	20.8	(16.3-26.0)
Last Year's Household Income				
<\$16,000	90	4,903	46.6	(37.7-55.9)
\$16,001-\$24,000	48	2,577	30.7	(21.9-41.2)
\$24,001-\$40,000	64	3,860	32.7	(24.8-41.7)
\$40,001-\$60,000	46	3,208	22.0	(15.7-29.9)
\$60,001+	73	6,129	14.6	(11.4-18.5)

*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 cannabis usage during pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	148	8,221	8.4	(6.9-10.3)
Maternal Age				
<20 Years	12	579	20.3**	(10.0-36.8)
20-29 Years	83	4,518	10.2	(7.8-13.3)
30+ Years	53	3,125	6.2	(4.4-8.7)
Race/Ethnicity				
White, non-Hispanic	65	5,319	8.2	(6.2-10.9)
Black, non-Hispanic	71	2,198	13.7	(10.9-17.2)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	27	1,276	15.5	(9.5-24.4)
HS Grad/GED	51	2,733	10.8	(7.6-15.0)
Some College	57	3,469	12.4	(8.9-16.8)
College Degree+	12	599	1.7**	(0.8-3.5)
Pregnancy Insurance Status				
Private	38	2,201	3.7	(2.5-5.5)
Medicaid/Public	102	5,603	16.4	(12.9-20.6)
Marital Status				
Married	25	1,383	2.2	(1.3-3.7)
Other	123	6,838	19.8	(16.0-24.1)
Parity				
No previous live birth	45	2,313	6.1	(4.2-8.7)
1	54	3,171	9.6	(6.8-13.4)
2+	49	2,738	10.4	(7.3-14.6)
Last Year's Household Income				
<\$16,000	47	2,346	22.4	(15.7-30.8)
\$16,001-\$24,000	21	1,667	20.2	(12.6-30.9)
\$24,001-\$40,000	28	1,415	12.0	(7.5-18.7)
\$40,001-\$60,000	17	887	6.1**	(3.1-11.5)
\$60,001+	17	1,145	2.7**	(1.5-4.9)

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

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

Table 43. Prevalence of cannabis usage after pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	189	11,160	11.4	(9.6-13.5)
Maternal Age				
<20 Years	13	766	26.8	(13.8-45.6)
20-29 Years	109	5,985	13.4	(10.7-16.8)
30+ Years	67	4,409	8.7	(6.5-11.6)
Race/Ethnicity				
White, non-Hispanic	83	7,202	11.2	(8.8-14.1)
Black, non-Hispanic	92	2,864	17.8	(14.6-21.6)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	28	1,206	14.7	(9.0-23.0)
HS Grad/GED	71	4,471	17.6	(13.3-22.9)
Some College	70	4,079	14.4	(10.8-19.0)
College Degree+	19	1,260	3.6	(2.0-6.1)
Post Pregnancy Insurance Status				
Private	53	2,897	5.0	(3.6-6.9)
Medicaid/Public	127	7,836	21.7	(17.7-26.3)
Uninsured			*	
Marital Status				
Married	41	2,473	3.9	(2.7-5.7)
Other	148	8,686	24.9	(20.7-29.7)
Parity				
No previous live birth	66	3,838	10.1	(7.5-13.4)
1	68	3,942	11.8	(8.7-15.8)
2+	55	3,380	12.8	(9.2-17.4)
Last Year's Household Income				
<\$16,000	55	3,229	30.8	(22.8-40.1)
\$16,001-\$24,000	23	1,565	18.7	(11.4-29.1)
\$24,001-\$40,000	37	1,939	16.5	(11.0-23.8)
\$40,001-\$60,000	18	1,118	7.7**	(4.1-13.8)
\$60,001+	29	2,017	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 44. Prevalence of opioid pain reliever usage in 12 months before pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	51	3,442	3.5	(2.5-4.9)
Maternal Age				
<20 Years			*	
20-29 Years	18	1,523	3.4	(2.0-5.8)
30+ Years	30	1,810	3.6	(2.3-5.5)
Race/Ethnicity				
White, non-Hispanic	25	2,444	3.8	(2.5-5.8)
Black, non-Hispanic	24	823	5.1	(3.4-7.7)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	7	551	6.8**	(2.8-15.6)
HS Grad/GED	10	676	2.7**	(1.3-5.4)
Some College	23	1,423	4.0	(3.0-8.3)
College Degree+	11	793	2.2**	(1.1-4.5)
Pre-Pregnancy Insurance Status				
Private	31	2,264	3.7	(2.5-5.7)
Medicaid/Public	20	1,178	3.8	(2.2-6.5)
Uninsured			*	
Marital Status				
Married	22	1,944	3.1	(1.9-5.0)
Other	29	1,498	4.3	(2.8-6.7)
Parity				
No previous live birth	15	1,099	2.9**	(1.6-5.3)
1	18	1,455	4.4	(2.5-7.4)
2+	18	887	3.4	(1.9-5.9)
Last Year's Household Income				
<\$16,000			*	
\$16,001-\$24,000	7	394	4.7**	(2.0-10.6)
\$24,001-\$40,000	10	394	3.4**	(1.5-7.4)
\$40,001-\$60,000	7	708	4.9**	(2.2-10.5)
\$60,001+	14	1,169	2.8**	(1.5-5.0)

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

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

Table 45. Prevalence of opioid pain reliever usage during pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	34	2,331	2.4	(1.6-3.6)
Maternal Age				
<20 Years			*	
20-29 Years	12	606	1.4**	(0.6-2.8)
30+ Years	21	1,680	3.3	(2.0-5.5)
Race/Ethnicity				
White, non-Hispanic	9	1,093	1.7**	(0.9-3.3)
Black, non-Hispanic	20	680	4.3	(2.7-6.7)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	7	591	7.2**	(3.1-16.0)
HS Grad/GED			*	
Some College	11	501	1.8**	(0.8-3.7)
College Degree+	9	650	1.8**	(0.9-3.9)
Pregnancy Insurance Status				
Private	14	1,180	2.0**	(1.1-3.6)
Medicaid/Public	18	875	2.5**	(1.4-4.6)
Marital Status				
Married	15	1,668	2.7	(1.5-4.5)
Other	19	664	1.9	(1.2-3.0)
Parity				
No previous live birth	10	587	1.6**	(0.7-3.2)
1	10	573	1.7**	(0.8-3.8)
2+	13	1,028	3.9**	(2.0-7.4)
Last Year's Household Income				
<\$16,000			*	
\$16,001-\$24,000			*	
\$24,001-\$40,000	8	595	5.1**	(2.1-11.9)
\$40,001-\$60,000	6	535	3.7**	(1.5-8.8)
\$60,001+	6	582	1.4**	(0.6-3.3)

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

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

Table 46. Prevalence of opioid pain reliever usage after pregnancy by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	225	15,873	16.3	(14.0-18.8)
Maternal Age				
<20 Years			*	
20-29 Years	84	5,769	13.0	(10.1-16.6)
30+ Years	137	9,881	19.6	(16.3-23.4)
Race/Ethnicity				
White, non-Hispanic	113	10,537	16.4	(13.5-19.7)
Black, non-Hispanic	79	2,446	15.3	(12.3-18.9)
Hispanic	11	1,087	14.4**	(7.3-26.3)
Asian/Pacific Islander, non-Hispanic	8	704	16.6**	(8.0-31.1)
Other, non-Hispanic	14	1,100	22.2	(12.3-36.7)
Education				
<High School	19	1,371	16.8	(9.9-27.1)
HS Grad/GED	62	4,636	18.3	(13.7-23.9)
Some College	66	4,340	15.5	(11.7-20.2)
College Degree+	78	5,527	15.6	(12.2-19.8)
Post Pregnancy Insurance Status				
Private	118	9,376	16.2	(13.3-19.6)
Medicaid/Public	100	6,040	16.8	(13.3-21.0)
Uninsured			*	
Marital Status				
Married	124	10,543	16.8	(13.9-20.2)
Other	101	5,331	15.4	(12.1-19.2)
Parity				
No previous live birth	86	5,819	15.4	(12.1-19.3)
1	69	5,341	16.0	(12.3-20.6)
2+	69	4,682	17.8	(13.6-23.1)
Last Year's Household Income				
<\$16,000	25	1,340	12.8	(7.9-20.2)
\$16,001-\$24,000	20	1,429	17.1	(10.3-27.1)
\$24,001-\$40,000	37	2,173	18.5	(12.5-26.5)
\$40,001-\$60,000	29	2,561	17.6	(11.9-25.3)
\$60,001+	91	7,262	17.3	(13.8-21.4)

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

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

**Table 47. Distribution of delivery methods,
MI PRAMS, 2022**

Method	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Vaginal	808	63,367	64.0	(60.9-67.0)
First C-section	313	19,479	19.7	(17.3-22.3)
Repeat C-Section	198	14,347	14.5	(12.4-16.9)
Vacuum delivery	7	594	0.6**	(0.3-1.4)
Forceps delivery	30	2,731	2.8	(1.8-4.1)

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

Table 48. Prevalence of low birthweight[^] by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	288	8,288	8.4	(8.1-8.6)
Maternal Age				
<20 Years	17	530	18.6	(11.0-29.6)
20-29 Years	133	3,913	8.7	(7.6-9.9)
30+ Years	138	3,845	7.5	(6.6-8.6)
Race/Ethnicity				
White, non-Hispanic	161	4,512	6.9	(6.2-7.8)
Black, non-Hispanic	75	2,276	13.9	(11.8-16.4)
Hispanic	18	518	6.7	(4.1-10.8)
Asian/Pacific Islander, non-Hispanic	7	197	4.6**	(2.2-9.7)
Other, non-Hispanic	26	761	14.9	(9.7-22.1)
Education				
<High School	35	1,092	13.3	(9.4-18.5)
HS Grad/GED	88	2,746	10.6	(8.8-12.8)
Some College	92	2,532	8.8	(7.3-10.6)
College Degree+	72	1,887	5.3	(4.2-6.6)
Pregnancy Insurance Status				
Medicaid/Public	132	3,572	6.0	(5.2-6.9)
Private	135	4,112	11.8	(10.3-13.5)
Marital Status				
Married	146	3,857	6.1	(5.4-6.9)
Other	141	4,400	12.4	(10.9-14.1)
Parity				
No previous live birth	134	3,800	9.9	(8.6-11.3)
1	67	1,896	5.6	(4.5-7.0)
2+	86	2,561	9.5	(7.8-11.6)
Last Year's Household Income				
<\$16,000	46	1,407	13.4	(10.0-17.7)
\$16,001-\$24,000	33	1,015	12.1	(8.5-16.9)
\$24,001-\$40,000	44	1,315	11.0	(8.2-14.7)
\$40,001-\$60,000	36	1,001	6.9	(4.9-9.4)
\$60,001+	87	2,311	5.5	(4.5-6.7)

[^]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, 2022

Low Birthweight Subcategory	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total Prevalence	288	8,288	100.0	
Very low birthweight	42	1,289	15.6	(11.6-20.6)
Moderately low birthweight	246	6,999	84.4	(79.4-88.4)

[^]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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	288	8,288	8.4	(8.2-8.7)
Smoking status				
Did not smoke in last 3 months of pregnancy	255	7,273	7.9	(7.5-8.3)
Smoked last 3 months of pregnancy	33	1,015	18.2	(12.4-25.9)

[^]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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	79	7,640	7.7	(6.1-9.8)
Maternal Age				
<20 Years			*	
20-29 Years	32	3,051	6.8	(4.6-9.9)
30+ Years	47	4,589	9.0	(6.6-12.1)
Race/Ethnicity				
White, non-Hispanic	42	5,319	8.2	(6.1-10.9)
Black, non-Hispanic	23	684	4.2	(2.7-6.4)
Hispanic	7	742	9.6**	(4.2-20.8)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School			*	
HS Grad/GED	17	1,300	5.0	(2.8-8.8)
Some College	24	2,457	8.6	(5.5-13.0)
College Degree+	33	3,493	9.8	(6.9-13.7)
Pregnancy Insurance Status				
Medicaid/Public	51	5,216	8.8	(6.6-11.6)
Private	27	2,391	6.9	(4.4-10.5)
Marital Status				
Married	55	5,787	9.1	(6.9-11.9)
Other	24	1,854	5.2	(3.2-8.4)
Parity				
No previous live birth	24	2,330	6.1	(3.9-9.3)
1	30	2,689	8.0	(5.4-11.8)
2+	25	2,621	9.8	(6.5-14.5)
Last Year's Household Income				
<\$16,000	6	279	2.7**	(1.0-6.6)
\$16,001-\$24,000			*	
\$24,001-\$40,000			*	
\$40,001-\$60,000	17	2,097	14.4	(9.0-22.1)
\$60,001+	32	3,444	8.2	(5.7-11.6)

[^]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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	78	7,608	7.8	(6.1-9.9)
Diabetes status				
No diabetes before or during pregnancy	62	5,918	7.3	(5.6-9.5)
Diabetes before pregnancy			*	
Gestational diabetes	11	1,093	9.4**	(5.0-16.8)

[^]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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Infant both low birthweight and preterm	193	5,410	5.5	(5.0-5.9)
Infant low birthweight and term	95	2,878	2.9	(2.4-3.5)
Infant not low birthweight, yes preterm	36	2,577	2.6	(1.7-3.9)
Infant not low birthweight, yes term	1,028	88,132	89.0	(87.9-90.0)

[^]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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	229	7987	8.1	(7.0-9.3)
Maternal Age				
<20 Years	8	279	9.8**	(4.7-19.2)
20-29 Years	104	4012	8.9	(7.0-11.3)
30+ Years	117	3696	7.2	(6.0-8.8)
Race/Ethnicity				
White, non-Hispanic	129	4600	7.1	(5.8-8.7)
Black, non-Hispanic	65	1998	12.2	(9.8-15.2)
Hispanic	14	532	6.9	(3.3-14.1)
Asian/Pacific Islander, non-Hispanic	6	346	8.2**	(3.0-20.2)
Other, non-Hispanic	15	511	10.0	(5.5-17.5)
Education				
<High School	21	757	9.2	(5.6-14.9)
HS Grad/GED	64	2192	8.5	(6.5-11.0)
Some College	73	2409	8.4	(6.4-11.0)
College Degree+	70	2598	7.3	(5.4-9.8)
Pregnancy Insurance Status				
Medicaid/Public	116	4256	7.1	(5.7-8.9)
Private	98	3067	8.8	(7.2-10.7)
Marital Status				
Married	126	4442	7.0	(5.6-8.7)
Other	102	3514	9.9	(8.1-12.1)
Parity				
No previous live birth	98	3331	8.7	(6.9-10.9)
1	60	2487	7.4	(5.3-10.2)
2+	70	2138	8.0	(6.2-10.2)
Last Year's Household Income				
<\$16,000	28	896	8.5	(5.8-12.3)
\$16,001-\$24,000	26	959	11.4	(7.1-18.0)
\$24,001-\$40,000	30	988	8.3	(5.5-12.3)
\$40,001-\$60,000	34	1467	10.0	(6.5-15.3)
\$60,001+	78	2710	6.4	(4.9-8.5)

[^]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, 2022**

Breastfeeding duration categories	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Did not Breastfeed	163	9,787	10.0	(8.3-12.0)
Initiated Breastfeeding [^]	1,162	87,917	90.0	(88.0-91.7)
Breastfed at least 4 weeks (i.e. 1 month) [^]	974	75,316	77.0	(74.3-79.6)
Breastfed at least 8 weeks (i.e. 2 months) [^]	858	66,929	68.5	(65.4-71.4)
Breastfed at least 12 weeks (i.e. 3 months) [^]	681	54,036	62.3	(59.0-65.5)

[^]Counts within these categories are non-exclusive. For example, a mother who breastfed for at least two months but not 3 will be counted in the totals for initiation, 1-month, and 2-month duration.

**Table 56. Reasons for not initiating breastfeeding,
MI PRAMS, 2022**

Reasons for not initiating breastfeeding	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reasons (non-exclusive)				
Mom did not want to breastfeed	70	4,121	41.6	(32.5-51.2)
Mom had other children to take care of	32	2,302	23.2	(16.0-32.5)
Mom tried but it was too hard	28	1,974	19.9	(13.2-29.0)
Mom did not like breastfeeding	33	1,913	19.3	(13.0-27.7)
Mom was sick or on medicine	21	1,561	15.8	(9.7-24.6)
Mom returned to work	23	1,208	12.2	(7.4-19.4)
Mom had too many other household duties	17	902	9.1	(5.2-15.5)
Mom returned to school	6	279	2.8**	(1.1-7.0)
Baby was in the hospital			*	
Other	41	2,424	24.5	(17.1-33.7)

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

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

**Table 57. Cumulative number of reasons for not initiating breastfeeding,
MI PRAMS, 2022**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-1 reason	99	5,917	59.7	(50.1-68.6)
2 reasons	38	2,123	21.4	(14.7-30.2)
3 reasons	20	1,250	12.6	(7.5-20.4)
4+ reasons	10	622	6.3**	(3.1-12.3)

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

Table 58. Prevalence of breastfeeding initiation by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,162	87,917	90.0	(88.0-91.7)
Maternal Age				
<20 Years	39	2,158	76.3**	(59.5-87.6)
20-29 Years	536	39,680	89.2	(86.0-91.7)
30+ Years	587	46,079	91.5	(88.7-93.6)
Race/Ethnicity				
White, non-Hispanic	578	59,066	91.3	(88.6-93.5)
Black, non-Hispanic	418	12,970	81.6	(77.7-84.9)
Hispanic	63	6,713	91.3**	(80.5-96.4)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<High School	88	6,042	74.4	(64.0-82.6)
HS Grad/GED	312	21,794	86.1	(81.3-89.9)
Some College	371	25,757	91.1	(87.2-93.9)
College Degree+	384	33,760	95.3	(92.5-97.0)
Post Pregnancy Insurance Status				
Private	638	55,089	95.3	(93.2-96.7)
Medicaid/Public	480	29,429	81.5	(77.3-85.1)
Uninsured	20	1,686	100.0	
Marital Status				
Married	663	59,246	94.4	(92.2-96.0)
Other	496	28,572	82.1	(77.9-85.6)
Parity				
No previous live birth	454	34,518	90.9	(87.6-93.5)
1	371	29,899	90.7	(87.1-93.4)
2+	335	23,325	87.6	(83.3-91.0)
Last Year's Household Income				
<\$16,000	145	8,434	81.9	(74.2-87.6)
\$16,001-\$24,000	109	6,962	84.4	(75.4-90.6)
\$24,001-\$40,000	159	10,001	84.8	(76.9-90.4)
\$40,001-\$60,000	151	12,948	90.3	(83.8-94.4)
\$60,001+	441	40,243	95.8	(93.3-97.4)

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

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

Table 59. Prevalence of 1-month breastfeeding duration by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	974	75,316	77.0	(74.3-79.6)
Maternal Age				
<20 Years	29	1,831	64.8	(48.1-78.5)
20-29 Years	439	33,031	74.2	(69.9-78.2)
30+ Years	506	40,454	80.2	(76.5-83.5)
Race/Ethnicity				
White, non-Hispanic	500	51,318	79.4	(75.7-82.6)
Black, non-Hispanic	331	10,075	63.2	(58.6-67.5)
Hispanic	54	5,749	78.2	(65.1-87.3)
Asian/Pacific Islander, non-Hispanic	37	3,685	86.8**	(72.6-94.3)
Other, non-Hispanic	46	3,993	81.2**	(66.6-90.4)
Education				
<High School	60	3,872	47.7	(36.6-58.9)
HS Grad/GED	244	17,551	69.4	(63.3-74.8)
Some College	315	22,401	79.1	(74.0-83.4)
College Degree+	349	30,974	87.4	(83.5-90.5)
Post Pregnancy Insurance Status				
Private	568	49,743	86.0	(82.8-88.7)
Medicaid/Public	367	22,323	61.8	(56.7-66.6)
Uninsured			*	
Marital Status				
Married	599	53,570	85.3	(82.1-88.0)
Other	373	21,692	62.2	(57.2-67.0)
Parity				
No previous live birth	377	30,427	80.1	(75.9-83.7)
1	316	25,360	76.9	(71.8-81.4)
2+	279	19,353	72.7	(67.0-77.7)
Last Year's Household Income				
<\$16,000	101	5,773	56.0	(46.6-65.0)
\$16,001-\$24,000	86	5,435	65.5	(54.8-74.9)
\$24,001-\$40,000	133	8,424	71.5	(62.5-79.0)
\$40,001-\$60,000	135	11,416	79.6	(71.5-85.9)
\$60,001+	400	36,976	88.0	(84.5-90.9)

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

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

Table 60. Prevalence of 2-month breastfeeding duration by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	858	66,929	68.5	(65.4-71.4)
Maternal Age				
<20 Years	23	1,334	47.2	(30.5-64.6)
20-29 Years	381	28,850	64.8	(60.1-69.3)
30+ Years	454	36,744	72.9	(68.7-76.6)
Race/Ethnicity				
White, non-Hispanic	438	45,477	70.3	(66.3-74.0)
Black, non-Hispanic	286	8,496	53.3	(48.7-57.8)
Hispanic	49	5,156	70.2	(56.4-81.1)
Asian/Pacific Islander, non-Hispanic	37	3,685	86.8**	(72.6-94.3)
Other, non-Hispanic	42	3,618	73.6	(58.5-84.7)
Education				
<High School	49	3,031	37.3	(27.2-48.7)
HS Grad/GED	210	15,164	59.9	(53.6-65.9)
Some College	267	19,248	68.0	(62.3-73.1)
College Degree+	326	28,968	81.8	(77.3-85.5)
Post Pregnancy Insurance Status				
Private	517	45,894	79.4	(75.8-82.6)
Medicaid/Public	307	18,202	50.4	(45.2-55.5)
Uninsured			*	
Marital Status				
Married	554	49,412	78.7	(75.1-81.9)
Other	302	17,463	50.1	(45.0-55.2)
Parity				
No previous live birth	325	26,562	69.9	(65.1-74.3)
1	280	22,594	68.5	(63.1-73.6)
2+	251	17,597	66.1	(60.2-71.6)
Last Year's Household Income				
<\$16,000	86	4,872	47.3	(38.1-56.6)
\$16,001-\$24,000	75	4,898	59.1	(48.3-69.1)
\$24,001-\$40,000	112	6,947	58.9	(49.7-67.6)
\$40,001-\$60,000	112	9,507	66.3	(57.5-74.1)
\$60,001+	368	34,450	82.0	(77.9-85.5)

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

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

Table 61. Prevalence of 3-month breastfeeding duration by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	681	54,036	62.3	(59.0-65.5)
Maternal Age				
<20 Years	19	1,189	43.8	(26.9-62.2)
20-29 Years	294	22,813	57.7	(52.7-62.6)
30+ Years	368	30,034	67.6	(63.0-71.8)
Race/Ethnicity				
White, non-Hispanic	345	36,179	64.5	(60.1-68.7)
Black, non-Hispanic	223	6,677	44.4	(39.8-49.1)
Hispanic	44	4,599	69.8	(55.4-81.1)
Asian/Pacific Islander, non-Hispanic	31	3,145	80.0**	(64.4-89.8)
Other, non-Hispanic	33	3,084	67.8	(52.1-80.2)
Education				
<High School	34	2,224	29.4	(19.8-41.2)
HS Grad/GED	160	11,920	51.5	(44.8-58.1)
Some College	218	15,961	61.8	(55.7-67.5)
College Degree+	265	23,603	79.3	(74.3-83.6)
Post Pregnancy Insurance Status				
Uninsured	422	37,294	74.5	(70.4-78.2)
Medicaid/Public	233	14,430	43.4	(38.2-48.8)
Private			*	
Marital Status				
Married	440	39,608	72.4	(68.3-76.2)
Other	240	14,406	45.2	(40.0-50.5)
Parity				
No previous live birth	265	21,604	64.3	(59.0-69.2)
1	214	17,927	62.5	(56.5-68.0)
2+	200	14,330	59.2	(52.8-65.3)
Last Year's Household Income				
<\$16,000	65	3,878	42.3	(32.9-52.3)
\$16,001-\$24,000	57	3,592	47.2	(36.2-58.4)
\$24,001-\$40,000	90	5,781	53.3	(43.8-62.6)
\$40,001-\$60,000	85	7,429	61.1	(51.7-69.8)
\$60,001+	297	28,100	77.6	(72.9-81.7)

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

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

**Table 62. Reasons for stopping breastfeeding,
MI PRAMS, 2022**

Reasons (non-exclusive)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Wasn't Producing Enough Milk	243	16,009	52.5	(46.9-58.1)
Baby Had Difficulty Nursing or Latching	140	10,708	35.1	(29.9-40.8)
Breastmilk Didn't Satisfy Baby	113	7,935	26.0	(21.4-31.4)
Too Many Household Duties	96	6,741	22.1	(17.7-27.2)
Nipples Were Sore, Cracked, or Bleeding	94	6,523	21.4	(17.1-26.5)
Went Back to Work	72	4,168	13.7	(10.4-17.8)
It Was Right Time to Stop	43	3,063	10.1	(7.1-14.1)
Baby Wasn't Gaining Weight	37	2,814	9.2	(6.3-13.3)
I Was Sick	38	2,512	8.2	(5.6-12.0)
Partner Didn't Support	10	918	3.0**	(1.5-5.9)
Baby Was Jaundiced	12	545	1.8**	(0.8-3.8)
Went Back to School	8	386	1.3**	(0.5-3.4)
Other	75	5,856	19.2	(15.0-24.3)

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

**Table 63. Breastfeeding information sources before or after delivery,
MI PRAMS, 2022**

Breastfeeding information source	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Information sources (non-exclusive)				
Mom's doctor	1,063	76,384	78.6	(75.8-81.2)
Nurse, midwife, or doula	969	72,669	75.2	(72.3-77.9)
Breastfeeding or lactation specialist	980	72,022	74.4	(71.5-77.2)
Baby's doctor	906	66,094	68.7	(65.6-71.7)
Family or friends	791	59,992	61.8	(58.6-64.9)
Breastfeeding support group	335	21,202	22.0	(19.5-24.8)
Hotline or toll-free number	178	10,260	10.7	(8.9-12.8)
Other	127	9,340	12.1	(9.9-14.7)

**Table 64. Total number of breastfeeding information sources,
MI PRAMS, 2022**

Number of sources of breastfeeding information	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0	37	2,180	2.2	(1.5-3.3)
1	79	5,923	6.1	(4.7-7.8)
2	138	11,008	11.3	(9.3-13.5)
3	210	16,307	16.7	(14.4-19.3)
4	301	23,036	23.6	(20.9-26.5)
5	327	23,899	24.5	(21.8-27.4)
6	120	8,754	9.0	(7.2-11.0)
7	99	6,074	6.2	(4.9-7.9)
8	14	553	0.6	(0.3-1.0)

**Table 65. Did mother ever use a breast pump[^],
MI PRAMS, 2022**

Breast pump usage	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,052	78,862	90.0	(87.7-91.9)
No	107	8,745	10.0	(8.1-12.3)

[^]Denominator for this question is limited to those who report that they did initiate breastfeeding with their infant (Table 58).

**Table 66. Source of breast pump[^],
MI PRAMS, 2022**

Source of breast pump	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Breast Pump Source (non-exclusive)				
Bought new from store or online	360	29,015	36.7	(33.2-40.3)
Free from hospital	297	19,446	24.6	(21.6-27.8)
Had one from previous child	120	10,429	13.2	(10.9-15.9)
Previously used by someone else	78	6,184	7.8	(6.1-10.0)
New as a gift	81	5,084	6.4	(4.9-8.4)
New from WIC	53	3,222	4.1	(2.9-5.7)
Bought new from hospital or doctor's office	44	2,701	3.4	(2.4-4.9)
Rented from hospital or doctor's office	11	446	0.6**	(0.2-1.3)
Other	290	22,883	28.9	(25.7-32.4)

[^]Denominator for this question is limited to those who report that they did initiate breastfeeding with their infant and used a breast pump to express milk (Table 58).

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

Table 67. Prevalence of ever using a breast pump[^] by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,052	78,862	90.0	(87.7-91.9)
Maternal Age				
<20 Years			*	
20-29 Years	487	35,971	91.0	(87.6-93.5)
30+ Years	528	40,911	89.1	(85.7-91.8)
Race/Ethnicity				
White, non-Hispanic	529	53,248	90.7	(87.7-93.0)
Black, non-Hispanic	372	11,372	87.5	(83.5-90.6)
Hispanic	57	5,866	87.4**	(74.3-94.3)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	49	4,038	88.5**	(73.9-95.4)
Education				
<High School	66	3,975	67.3	(53.1-78.8)
HS Grad/GED	276	19,612	90.1	(85.4-93.3)
Some College	346	23,700	92.2	(88.0-95.0)
College Degree+	358	31,144	92.5	(88.9-95.0)
Post Pregnancy Insurance Status				
Private	599	50,574	92.2	(89.2-94.4)
Medicaid/Public	417	25,512	86.6	(82.3-89.9)
Uninsured				
Marital Status				
Married	615	53,739	91.2	(88.3-93.5)
Other	434	25,025	87.5	(83.3-90.8)
Parity				
No previous live birth	436	33,193	96.3	(93.6-97.9)
1	338	26,877	90.3	(85.9-93.4)
2+	276	18,617	80.3	(74.4-85.1)
Last Year's Household Income				
<\$16,000	122	6,702	79.5	(69.0-87.0)
\$16,001-\$24,000	96	6,098	87.0**	(77.0-93.1)
\$24,001-\$40,000	144	9,001	90.2	(82.7-94.6)
\$40,001-\$60,000	143	11,962	93.3**	(86.2-96.9)
\$60,001+	414	37,653	94.0	(91.1-96.1)

[^]Denominator for this question is limited to those who report that they did initiate breastfeeding with their infant (Table 58).

*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, 2022**

Health Indicators	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Baby got breast milk from source other than mom	195	11,438	11.8	(9.9-13.9)
Baby has a doctor, nurse, or medical practice where he or she is seen on a regular basis	1,160	87,809	90.6	(88.6-92.2)
Baby will see a dentist by his or her first birthday	910	63,510	66.1	(63.0-69.2)

**Table 69. Distribution of WIC status during pregnancy,
MI PRAMS, 2022**

WIC Status	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
No^	800	65,310	67.0	(64.0-69.9)
Yes	535	32,133	33.0	(30.1-36.0)

^This variable is for any WIC participation. Respondents 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, 2022**

Baby Sleep - Alone	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Always	813	62,140	63.7	(60.6-66.8)
Often/Almost Always	246	17,088	17.5	(15.2-20.1)
Sometimes	129	8,517	8.7	(7.1-10.7)
Rarely	57	3,879	4.0	(2.9-5.4)
Never	75	5,860	6.0	(4.6-7.8)

Table 71. Prevalence of infant sleeping in the same room as mother when sleeping alone in his/her own crib or bed[^], MI PRAMS, 2022

Baby in Room with Mom	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,075	75,408	82.4	(79.6-84.9)
No	169	16,097	17.6	(15.1-20.4)

[^]Denominator is limited to those who answered "always", "often", "sometimes" or "rarely" to the question from Table 70: "In the past 2 weeks, how often has your new baby slept alone in his or her own crib or bed?" This table excludes those who say their infant *never* sleeps alone.

Table 72. Infant sleep space characteristics, MI PRAMS, 2022

Baby Sleep Space	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Characteristics (non-exclusive)				
Crib/Bassinet/Pack and Play	1,222	90,027	92.4	(90.5-94.0)
Sleep Sack/Wearable Blanket	614	51,177	53.4	(50.2-56.7)
Car Seat/Swing	558	42,827	44.5	(41.2-47.8)
With Blanket	416	29,184	30.2	(27.3-33.3)
Twin or Larger Mattress/Bed	315	20,382	21.2	(18.7-23.9)
Couch/Sofa	121	7,475	7.7	(6.2-9.6)
With Bumper Pads	94	6,079	6.3	(4.9-8.1)
With Toys, Cushions, Pillows	81	5,726	5.9	(4.6-7.7)

Table 73. Primary infant sleep position, MI PRAMS, 2022

Primary Infant Sleep Position	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Back	1,113	84,758	87.1	(84.8-89.0)
Side	98	6,809	7.0	(5.5-8.8)
Stomach	71	4,083	4.2	(3.2-5.6)
Side/Back	17	911	0.9**	(0.5-1.7)
Back/Stomach	9	483	0.5**	(0.2-1.1)
Side/Stomach			*	
All 3 Positions			*	

*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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,059	79,227	81.3	(78.6-83.7)
Maternal Age				
<20 Years	41	2,095	74.1**	(55.2-86.9)
20-29 Years	485	35,553	80.1	(76.0-83.6)
30+ Years	533	41,579	82.7	(79.1-85.9)
Race/Ethnicity				
White, non-Hispanic	528	53,612	83.2	(79.7-86.1)
Black, non-Hispanic	388	11,923	75.1	(70.9-78.9)
Hispanic	59	6,230	84.8**	(72.3-92.2)
Asian/Pacific Islander, non-Hispanic	34	3,356	79.1	(64.3-88.8)
Other, non-Hispanic	45	3,754	76.4	(61.0-87.0)
Education				
<High School	101	6,125	75.7	(64.3-84.4)
HS Grad/GED	308	21,369	84.5	(79.5-88.5)
Some College	313	22,069	78.1	(72.9-82.6)
College Degree+	333	29,423	83.3	(78.9-87.0)
Post Pregnancy Insurance Status				
Private	539	46,940	81.4	(77.8-84.5)
Medicaid/Public	482	29,121	80.9	(76.5-84.6)
Uninsured			*	
Marital Status				
Married	576	51,525	82.2	(78.8-85.2)
Other	481	27,626	79.6	(75.2-83.3)
Parity				
No previous live birth	410	31,828	83.9	(79.9-87.2)
1	329	26,280	80.0	(75.1-84.2)
2+	319	20,976	79.0	(73.4-83.7)
Last Year's Household Income				
<\$16,000	145	8,030	78.8	(70.0-85.5)
\$16,001-\$24,000	111	7,088	85.5	(77.1-91.1)
\$24,001-\$40,000	146	9,433	80.2	(72.1-86.4)
\$40,001-\$60,000	128	11,367	79.4	(71.4-85.7)
\$60,001+	385	35,231	84.1	(80.0-87.4)

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

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

Table 75. Prevalence of infant sleeping in the same room as mother when sleeping alone in his/her own crib or bed^ by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,075	75,408	82.4	(79.6-84.9)
Maternal Age				
<20 Years			*	
20-29 Years	516	35,569	84.4	(80.2-87.9)
30+ Years	510	37,314	80.1	(76.0-83.6)
Race/Ethnicity				
White, non-Hispanic	468	47,043	78.1	(74.3-81.5)
Black, non-Hispanic	459	14,101	94.3	(91.7-96.2)
Hispanic	60	6,150	86.1	(72.9-93.4)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	46	3,974	84.8	(71.2-92.7)
Education				
<High School			*	
HS Grad/GED	328	22,118	91.1	(86.4-94.2)
Some College	327	21,017	81.4	(75.7-86.1)
College Degree+	296	24,259	73.0	(67.7-77.8)
Post Pregnancy Insurance Status				
Private	507	41,485	76.4	(72.4-80.1)
Medicaid/Public	525	30,776	91.4	(87.7-94.1)
None			*	
Marital Status				
Married	533	45,014	76.8	(72.9-80.4)
Other	540	30,317	92.3	(88.9-94.7)
Parity				
No previous live birth	407	28,086	78.3	(73.3-82.6)
1	337	25,854	83.0	(78.1-87.0)
2+	330	21,324	87.6	(82.6-91.3)
Last Year's Household Income				
<\$16,000	168	9,219	95.6**	(89.2-98.3)
\$16,001-\$24,000	120	7,140	90.9**	(80.5-96.0)
\$24,001-\$40,000	153	8,962	86.4	(77.6-92.1)
\$40,001-\$60,000	135	11,620	86.8	(79.2-92.0)
\$60,001+	328	28,236	71.5	(66.5-76.0)

^Denominator is limited to those who answered "always", "often", "sometimes" or "rarely" to the question from Table 70: "In the past 2 weeks, how often has your new baby slept alone in his or her own crib or bed?" This table excludes those who say their infant *never* sleeps alone.

*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 sleeping in a crib[^] by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,222	90,027	92.4	(90.5-94.0)
Maternal Age				
<20 Years			*	
20-29 Years	568	41,426	93.5	(90.8-95.4)
30+ Years	604	46,044	91.6	(88.6-93.9)
Race/Ethnicity				
White, non-Hispanic	583	59,272	91.9	(89.2-94.0)
Black, non-Hispanic	468	14,446	90.9	(87.7-93.3)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	53	4,324	88.0**	(72.8-95.2)
Education				
<High School	116	7,225	89.3**	(79.4-94.8)
HS Grad/GED	346	23,672	93.7	(89.9-96.1)
Some College	375	25,730	91.0	(86.8-93.9)
College Degree+	378	32,837	93.3	(89.8-95.6)
Post Pregnancy Insurance Status				
Private	623	53,322	92.6	(89.9-94.6)
Medicaid/Public	554	33,181	92.1	(88.7-94.5)
Uninsured			*	
Marital Status				
Married	655	57,886	92.5	(90.0-94.5)
Other	564	32,042	92.2	(88.9-94.6)
Parity				
No previous live birth	475	35,722	94.3	(91.4-96.2)
1	385	30,331	92.4	(88.7-95.0)
2+	361	23,831	89.8	(85.1-93.1)
Last Year's Household Income				
<\$16,000	167	8,995	87.8	(79.7-93.0)
\$16,001-\$24,000	125	7,764	93.6**	(86.6-97.1)
\$24,001-\$40,000	162	10,363	88.3	(81.0-93.0)
\$40,001-\$60,000	158	13,494	94.3**	(87.9-97.4)
\$60,001+	433	39,377	94.2	(91.3-96.2)

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

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

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

Table 77. Prevalence of infant sleeping on an adult-sized mattress by maternal characteristics, MI PRAMS, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	315	20,382	21.2	(18.7-23.9)
Maternal Age				
<20 Years	18	743	26.3	(14.6-42.7)
20-29 Years	157	9,365	21.4	(17.8-25.5)
30+ Years	140	10,274	20.7	(17.3-24.6)
Race/Ethnicity				
White, non-Hispanic	98	10,363	16.3	(13.4-19.8)
Black, non-Hispanic	167	5,245	33.3	(29.1-37.8)
Hispanic	11	1,156	15.7**	(8.1-28.4)
Asian/Pacific Islander, non-Hispanic	19	1,656	40.0	(26.1-55.8)
Other, non-Hispanic	17	1,766	36.7	(23.4-52.5)
Education				
<High School	36	2,516	31.2	(21.6-42.8)
HS Grad/GED	94	5,453	21.8	(17.1-27.4)
Some College	108	6,366	22.9	(18.3-28.2)
College Degree+	75	5,869	16.9	(13.3-21.2)
Post Pregnancy Insurance Status				
Private	149	11,206	19.7	(16.5-23.3)
Medicaid/Public	150	8,268	23.3	(19.3-27.9)
Uninsured			*	
Marital Status				
Married	144	12,236	19.8	(16.7-23.4)
Other	170	8,124	23.6	(19.7-27.9)
Parity				
No previous live birth	123	7,769	20.7	(16.9-25.1)
1	103	6,707	20.6	(16.5-25.4)
2+	89	5,905	22.8	(18.0-28.4)
Last Year's Household Income				
<\$16,000	45	2,753	28.3	(20.3-37.9)
\$16,001-\$24,000	32	1,846	22.5	(14.9-32.6)
\$24,001-\$40,000	52	2,583	22.0	(15.5-30.1)
\$40,001-\$60,000	36	2,552	18.2	(12.4-25.9)
\$60,001+	88	6,956	16.8	(13.4-20.8)

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

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

**Table 78. Prevalence of infant sleeping on a couch, sofa, or armchair
by maternal characteristics, MI PRAMS, 2022**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	121	7,475	7.7	(6.2-9.6)
Maternal Age				
<20 Years			*	
20-29 Years	58	3,591	8.2	(5.9-11.2)
30+ Years	58	3,684	7.4	(5.5-10.0)
Race/Ethnicity				
White, non-Hispanic	39	3,817	6.0	(4.2-8.3)
Black, non-Hispanic	69	2,312	14.6	(11.6-18.3)
All Others	12	1,329	8.2**	(4.5-14.6)
Education				
<High School	10	654	8.1**	(3.8-16.6)
HS Grad/GED	37	2,675	10.7	(7.3-15.5)
Some College	44	2,323	8.3	(5.7-11.9)
College Degree+	30	1,823	5.2	(3.4-7.9)
Post Pregnancy Insurance Status				
Private	54	3,936	6.9	(5.0-9.4)
Medicaid/Public	60	3,208	9.0	(6.6-12.1)
Uninsured			*	
Marital Status				
Married	49	3,927	6.4	(4.6-8.8)
Other	72	3,548	10.3	(7.7-13.5)
Parity				
No previous live birth	53	3,211	8.6	(6.2-11.7)
1	36	2,520	7.7	(5.2-11.3)
2+	32	1,743	6.7	(4.3-10.2)
Last Year's Household Income				
<\$16,000	16	733	7.4	(4.1-12.8)
\$16,001-\$24,000	12	551	6.7**	(3.1-13.8)
\$24,001-\$40,000	21	1,172	10.0	(5.9-16.5)
\$40,001-\$60,000	17	1,555	11.1	(6.5-18.3)
\$60,001+	31	2,327	5.6	(3.7-8.4)

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

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

**Table 79. Prevalence of infant sleeping in an infant car seat or swing
by maternal characteristics, MI PRAMS, 2022**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	558	42,827	44.5	(41.2-47.8)
Maternal Age				
<20 Years	25	1,260	44.6	(28.5-61.9)
20-29 Years	266	19,904	45.3	(40.5-50.3)
30+ Years	267	21,663	43.7	(39.3-48.3)
Race/Ethnicity				
White, non-Hispanic	287	29,050	45.6	(41.3-49.8)
Black, non-Hispanic	192	6,168	39.1	(34.7-43.7)
Hispanic	25	2,885	40.0	(27.5-54.1)
Asian/Pacific Islander, non-Hispanic	22	2,104	52.1	(36.5-67.3)
Other, non-Hispanic	28	2,281	46.7	(32.5-61.4)
Education				
<High School	41	2,612	32.4	(22.8-43.7)
HS Grad/GED	148	10,384	41.8	(35.6-48.4)
Some College	189	14,094	50.4	(44.4-56.3)
College Degree+	176	15,368	44.1	(38.7-49.6)
Post Pregnancy Insurance Status				
Private	312	27,264	47.9	(43.6-52.2)
Medicaid/Public	223	14,015	39.4	(34.4-44.6)
Uninsured	10	718	42.6**	(20.0-68.8)
Marital Status				
Married	306	27,541	44.6	(40.4-48.9)
Other	251	15,241	44.2	(39.2-49.4)
Parity				
No previous live birth	220	16,725	44.8	(39.7-50.1)
1	187	15,459	47.3	(41.6-53.0)
2+	151	10,643	40.7	(34.8-46.9)
Last Year's Household Income				
<\$16,000	69	3,718	37.2	(28.7-46.7)
\$16,001-\$24,000	56	3,494	42.3	(32.0-53.3)
\$24,001-\$40,000	70	5,101	43.4	(34.5-52.8)
\$40,001-\$60,000	72	6,309	45.1	(36.5-54.1)
\$60,001+	214	19,533	47.1	(42.0-52.2)

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

**Table 80. Prevalence of infant sleeping in a sleep sack or wearable blanket
by maternal characteristics, MI PRAMS, 2022**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	614	51,177	53.4	(50.2-56.7)
Maternal Age				
<20 Years	14	775	29.2	(15.7-47.9)
20-29 Years	266	22,305	51.0	(46.1-55.9)
30+ Years	334	28,096	56.9	(52.4-61.3)
Race/Ethnicity				
White, non-Hispanic	395	39,221	61.5	(57.2-65.6)
Black, non-Hispanic	139	4,179	26.6	(22.7-30.8)
Hispanic	31	3,175	45.4	(32.1-59.3)
Asian/Pacific Islander, non-Hispanic	22	2,127	54.1	(38.1-69.2)
Other, non-Hispanic	25	2,209	47.6	(33.1-62.6)
Education				
<High School	35	1,840	23.3	(15.3-33.7)
HS Grad/GED	131	9,981	40.7	(34.5-47.3)
Some College	180	14,854	53.2	(47.3-59.0)
College Degree+	265	24,266	69.6	(64.4-74.3)
Post Pregnancy Insurance Status				
Private	416	38,379	67.6	(63.5-71.5)
Medicaid/Public	181	11,566	32.8	(28.1-37.9)
Uninsured			*	
Marital Status				
Married	413	38,955	63.5	(59.3-67.5)
Other	199	12,168	35.5	(30.7-40.5)
Parity				
No previous live birth	253	20,963	56.5	(51.3-61.5)
1	205	18,483	57.0	(51.3-62.5)
2+	155	11,586	44.5	(38.4-50.7)
Last Year's Household Income				
<\$16,000	55	3,202	33.1	(24.7-42.8)
\$16,001-\$24,000	48	2,755	34.1	(24.8-44.8)
\$24,001-\$40,000	65	4,588	39.7	(31.0-49.1)
\$40,001-\$60,000	82	7,852	56.7	(47.7-65.2)
\$60,001+	317	30,287	72.9	(68.1-77.1)

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

**Table 81. Prevalence of infant sleeping with a blanket
by maternal characteristics, MI PRAMS, 2022**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	416	29,184	30.2	(27.3-33.3)
Maternal Age				
<20 Years	27	1,435	50.8	(33.7-67.7)
20-29 Years	215	14,329	32.5	(28.1-37.2)
30+ Years	174	13,419	27.1	(23.2-31.3)
Race/Ethnicity				
White, non-Hispanic	165	17,900	28.0	(24.3-32.1)
Black, non-Hispanic	190	5,852	37.2	(32.8-41.7)
Hispanic	20	2,031	27.6	(17.2-41.3)
Asian/Pacific Islander, non-Hispanic	17	1,570	38.9	(24.9-55.0)
Other, non-Hispanic	22	1,652	33.6	(21.5-48.4)
Education				
<High School	51	3,327	41.2	(30.6-52.7)
HS Grad/GED	133	9,040	35.9	(29.9-42.4)
Some College	141	9,288	33.5	(28.1-39.4)
College Degree+	88	7,294	20.8	(16.8-25.6)
Post Pregnancy Insurance Status				
Private	174	14,098	24.8	(21.2-28.7)
Medicaid/Public	221	13,387	37.4	(32.5-42.6)
Uninsured	11	992	59.9**	(32.5-82.3)
Marital Status				
Married	191	16,621	26.8	(23.2-30.7)
Other	224	12,517	36.4	(31.6-41.5)
Parity				
No previous live birth	161	9,734	25.9	(21.8-30.5)
1	133	10,314	31.6	(26.5-37.2)
2+	121	8,992	34.3	(28.6-40.5)
Last Year's Household Income				
<\$16,000	60	3,423	33.7	(25.3-43.2)
\$16,001-\$24,000	53	3,191	39.1	(29.1-50.2)
\$24,001-\$40,000	70	4,368	37.5	(29.0-46.8)
\$40,001-\$60,000	62	5,377	38.3	(30.1-47.3)
\$60,001+	97	8,690	20.9	(17.1-25.4)

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

**Table 82. Prevalence of infant sleeping with toys, cushions, or pillows
by maternal characteristics, MI PRAMS, 2022**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	81	5,726	5.9	(4.6-7.7)
Maternal Age				
<20 Years			*	
20-29 Years	42	2,725	6.2	(4.3-8.9)
30+ Years	36	2,931	5.9	(4.0-8.6)
Race/Ethnicity				
White, non-Hispanic	33	3,559	5.6	(3.9-7.9)
Black, non-Hispanic	34	979	6.2	(4.4-8.8)
All Others	12	1,118	7.0**	(3.6-12.9)
Education				
<High School	9	349	4.3**	(1.7-10.3)
HS Grad/GED	25	2,242	9.0	(5.8-13.6)
Some College	31	1,723	6.2	(3.9-9.8)
College Degree+	16	1,413	4.1	(2.4-6.8)
Post Pregnancy Insurance Status				
Private	34	2,744	4.8	(3.3-7.1)
Medicaid/Public	43	2,751	7.7	(5.3-11.1)
Uninsured			*	
Marital Status				
Married	42	3,426	5.6	(3.9-7.8)
Other	38	2,279	6.6	(4.4-9.8)
Parity				
No previous live birth	32	2,193	5.9	(3.9-8.8)
1	27	2,026	6.2	(4.0-9.6)
2+	22	1,507	5.8	(3.4-9.7)
Last Year's Household Income				
<\$16,000	9	558	5.7**	(2.5-12.4)
\$16,001-\$24,000	11	668	8.1**	(3.9-16.1)
\$24,001-\$40,000	14	661	5.6**	(2.7-11.3)
\$40,001-\$60,000	15	1,206	8.6**	(4.7-15.2)
\$60,001+	22	1,945	4.7	(3.0-7.4)

*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 sleeping with crib bumper pads (mesh or non-mesh)
by maternal characteristics, MI PRAMS, 2022**

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	94	6,079	6.3	(4.9-8.1)
Maternal Age				
<20 Years			*	
20-29 Years	47	3,038	7.0	(4.9-9.9)
30+ Years	42	2,724	5.5	(3.8-7.9)
Race/Ethnicity				
White, non-Hispanic	31	3,409	5.4	(3.7-7.7)
Black, non-Hispanic	50	1,447	9.3	(7.0-12.3)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic	6	516	13.1**	(5.5-28.1)
Other, non-Hispanic			*	
Education				
<High School	16	906	11.5**	(6.0-20.9)
HS Grad/GED	32	2,011	8.2	(5.3-12.5)
Some College	24	1,216	4.4	(2.5-7.4)
College Degree+	22	1,945	5.6	(3.5-8.7)
Post Pregnancy Insurance Status				
Private	39	3,035	5.3	(3.7-7.6)
Medicaid/Public	48	2,324	6.6	(4.6-9.5)
Uninsured			*	
Marital Status				
Married	41	3,450	5.6	(4.0-7.9)
Other	52	2,607	7.6	(5.3-10.7)
Parity				
No previous live birth	30	2,048	5.5	(3.5-8.5)
1	35	2,457	7.6	(5.1-11.2)
2+	29	1,574	6.0	(3.8-9.4)
Last Year's Household Income				
<\$16,000	16	744	7.5**	(3.7-14.5)
\$16,001-\$24,000	8	552	6.8**	(3.0-14.8)
\$24,001-\$40,000	22	931	8.0	(4.6-13.4)
\$40,001-\$60,000	9	751	5.4**	(2.5-11.2)
\$60,001+	22	2,156	5.2	(3.3-8.1)

*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, 2022

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,113	84,758	87.1	(84.8-89.0)
Maternal Age				
<20 Years	38	2,005	70.9	(53.2-84.0)
20-29 Years	508	37,954	85.5	(81.9-88.5)
30+ Years	567	44,799	89.4	(86.4-91.7)
Race/Ethnicity				
White, non-Hispanic	581	59,180	91.8	(89.1-93.9)
Black, non-Hispanic	383	11,606	73.1	(68.8-77.1)
Hispanic	60	6,047	82.3**	(69.0-90.6)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	45	3,596	73.2	(57.6-84.5)
Education				
<High School	101	6,745	83.4	(74.1-89.8)
HS Grad/GED	299	20,828	82.6	(77.3-86.8)
Some College	338	24,116	85.3	(80.9-88.9)
College Degree+	370	32,684	92.8	(89.5-95.2)
Post Pregnancy Insurance Status				
Private	600	52,168	90.5	(87.6-92.7)
Medicaid/Public	474	29,529	82.0	(78.0-85.5)
Uninsured			*	
Marital Status				
Married	634	56,633	90.6	(87.8-92.8)
Other	476	28,026	80.7	(76.7-84.2)
Parity				
No previous live birth	425	33,260	87.6	(84.0-90.5)
1	356	29,279	89.5	(85.9-92.3)
2+	331	22,075	83.1	(78.0-87.3)
Last Year's Household Income				
<\$16,000	150	8,356	82.4	(74.7-88.2)
\$16,001-\$24,000	108	6,923	83.5	(74.6-89.7)
\$24,001-\$40,000	146	9,552	81.2	(73.4-87.2)
\$40,001-\$60,000	145	12,602	88.1	(81.2-92.7)
\$60,001+	425	39,140	93.5	(90.5-95.5)

[^]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 any combination of sleep positions including a non-back response are not counted among exclusive back-sleepers.

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

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

**Table 85. Prevalence of life stressors experienced in 12 months before delivery,
MI PRAMS, 2022**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Life Stressors (non-exclusive)				
I moved to a new address	398	30,167	30.6	(27.7-33.7)
A close family member was very sick and had to go to the hospital	352	24,873	25.3	(22.6-28.2)
Someone very close to me died	324	20,735	21.1	(18.7-23.8)
I argued with my husband or partner more than usual	299	18,663	19.0	(16.6-21.6)
My husband, partner, or I had a cut in work hours or pay	263	16,883	17.3	(15.0-19.8)
I had problems paying the rent, mortgage, or other bills	255	15,775	16.1	(13.9-18.5)
I had to live with a friend or family member	204	12,832	13.1	(11.1-15.4)
Someone very close to me had a problem with drinking or drugs	142	10,668	10.9	(9.0-13.1)
I lost my job even though I wanted to go on working	178	10,022	10.2	(8.5-12.2)
My husband or partner lost his job	118	8,208	8.4	(6.8-10.4)
My husband or partner said he didn't want me to be pregnant	99	5,662	5.8	(4.5-7.4)
I got divorced or separated from my husband or partner	90	5,020	5.1	(3.9-6.7)
I was homeless or had to sleep outside, in a car, or in a shelter	57	2,765	2.8	(2.0-4.0)
I was apart from my husband or partner because of deployment or extended work-related travel	37	2,601	2.7	(1.8-3.9)
My husband, partner, or I went to jail	45	2,659	2.7	(1.9-3.9)

Table 86. Cumulative number of life stressors experienced in 12 months before delivery, MI PRAMS, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0	360	30,443	30.8	(27.9-34.0)
1	306	22,877	23.2	(20.6-26.0)
2	239	17,240	17.5	(15.2-20.0)
3	157	10,325	10.5	(8.7-12.6)
4	97	5,974	6.1	(4.7-7.7)
5	72	4,660	4.7	(3.5-6.3)
6	46	2,839	2.9	(2.0-4.1)
7	24	1,301	1.3	(0.8-2.2)
8+	47	3,026	4.4	(3.1-6.4)

Table 87. Prevalence of unmet basic needs during pregnancy, MI PRAMS, 2022

Unmet basic need	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
House or apartment was too crowded	107	6,864	7.0	(5.5-8.8)
Did not have affordable, reliable transportation	106	6,301	6.4	(5.1-8.1)
Skipped meals or ate less because there wasn't enough money for food	91	5,735	5.8	(4.5-7.5)
Could not keep basic utility services on (heat, water, light)	87	5,364	5.5	(4.2-7.1)
Did not have consistent housing	73	4,340	4.4	(3.3-5.9)
Did not have safe housing	65	3,924	4.0	(2.9-5.4)
Could not access a telephone when needed	33	1,693	1.7	(1.1-2.7)
Other unmet needs	68	4,174	4.7	(3.5-6.3)

Table 88. Cumulative number of unmet basic needs during pregnancy, MI PRAMS, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
None	998	77,266	78.5	(75.8-81.0)
1	206	12,819	13.0	(11.1-15.3)
2	69	3,908	4.0	(3.0-5.3)
3	33	2,051	2.1	(1.4-3.2)
4+	38	2,375	2.4	(1.6-3.7)

Table 89. Prevalence of any physical violence 12 months before or during pregnancy, MI PRAMS, 2022

Time period of abuse	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Abuse either 12 months before conception or during pregnancy	84	5,385	5.5	(4.2-7.2)
Abuse 12 months before conception	68	4,048	4.1	(3.0-5.6)
Abuse during pregnancy	52	3,559	3.6	(2.5-5.1)

Table 90. Perpetrator of abuse 12 months before conception, MI PRAMS, 2022

Person who abused mother	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Husband/partner	22	1,304	1.3	(0.8-2.3)
Ex-husband/partner	36	1,787	1.8	(1.2-2.8)
Another family member	11	563	0.6**	(0.3-1.2)
Someone else	21	1,723	1.8	(1.0-3.0)

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

Table 91. Perpetrator of abuse during pregnancy, MI PRAMS, 2022

Person who abused mother	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Husband/partner	21	1,329	1.4	(0.8-2.3)
Ex-husband/partner	21	1,287	1.3	(0.7-2.3)
Another family member	13	629	0.6**	(0.3-1.4)
Someone else	12	1,170	1.2**	(0.6-2.4)

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

Table 92. Prevalence of maternal adverse childhood experiences, MI PRAMS, 2022

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	431	30,668	31.5	(28.5-34.6)
A parent or guardian I lived with had a serious drinking or drug problem	237	17,660	18.2	(15.8-20.8)
We had to move because of trouble paying the rent or mortgage	232	15,322	15.8	(13.6-18.2)
A parent or guardian got in trouble with the law or went to jail	213	13,065	13.4	(11.4-15.8)
Most of the time, I did not have an adult who believed in me and who I could count on to help me	156	10,809	11.1	(9.2-13.3)
Someone in my family or I went hungry because we could not afford enough food	140	9,388	9.7	(7.9-11.8)
I was in foster care (removed from home by court or child welfare)	76	3,383	3.5	(2.6-4.6)

Table 93. Cumulative number of maternal adverse childhood experiences, MI PRAMS, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
None	637	50,145	51.4	(48.2-54.6)
1	330	22,502	23.1	(20.5-25.9)
2	132	9,610	9.8	(8.1-12.0)
3	123	8,233	8.4	(6.8-10.4)
4+	109	7,086	7.3	(5.8-9.1)

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, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Very often	86	6,493	6.7	(5.2-8.5)
Somewhat often	187	13,077	13.4	(11.4-15.8)
Not very often	341	24,741	25.4	(22.7-28.4)
Never	708	52,922	54.4	(51.2-57.7)

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 question wording in the table below have been converted to positive language. Respondents with a resilience score of 6 report that most of the time they handle stressful situations well. Respondents with a resilience score of 0 report that most of the time they respond poorly to stressful life situations.

**Table 95. Positive responses to stressful events,
MI PRAMS, 2022**

Stressful event response	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
I do not take a long time to get over setbacks in my life	1,189	88,749	91.3	(89.4-92.9)
It is not hard for me to snap back when something bad happens	1,121	82,659	85.0	(82.5-87.2)
I do not have a hard time making it through stressful events	1,099	81,585	83.7	(81.1-85.9)
I tend to bounce back quickly after hard times	910	63,488	65.2	(62.0-68.3)
It does not take me long to recover from a stressful event	640	46,096	47.3	(44.1-50.6)
I usually come through a difficult time with little trouble	607	43,570	44.8	(41.6-48.0)

**Table 96. Cumulative number of positive responses to stressful life events,
MI PRAMS, 2022**

Number of positive responses to stressful situations	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-3	333	23,613	24.2	(21.5-27.1)
4	429	33,254	34.0	(31.0-37.2)
5	271	18,439	18.9	(16.5-21.5)
6	302	22,365	22.9	(20.3-25.7)

Table 97. Post-partum checkup for mother, MI PRAMS, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,174	88,375	90.2	(88.2-91.9)
No	165	9,564	9.8	(8.1-11.8)

Table 98. Prevalence of health care provider topics discussed and actions taken during postpartum checkup, MI PRAMS, 2022

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Discussion or Action (non-exclusive)				
Ask if feeling down or depressed	1,083	81,186	92.1	(90.0-93.8)
Discuss birth control methods	1,029	76,889	87.7	(85.2-89.8)
Ask if taking other prescriptions medications	877	66,271	75.4	(72.3-78.2)
Ask about current emotional or physical abuse	860	61,792	70.3	(67.0-73.4)
Ask if smoking cigarettes	745	54,198	62.0	(58.6-65.3)
Ask if drinking alcohol	671	47,075	53.9	(50.5-57.3)
Discuss how long to wait to get pregnant again	652	46,181	52.4	(49.0-55.8)
Advise to take folic acid	538	41,808	47.9	(44.5-51.4)
Discuss healthy eating, exercise and losing pregnancy weight gain	602	41,427	47.3	(43.8-50.7)
Give or prescribe hormonal or barrier contraceptives	446	31,493	35.6	(32.4-39.0)
Ask if taking prescription opioids	412	27,555	31.4	(28.3-34.7)
Test for diabetes	299	18,289	21.0	(18.4-23.9)
Insert an IUD	194	13,448	15.3	(13.0-17.9)

**Table 99. Post-partum depression symptoms,
MI PRAMS, 2022**

Experience	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Since new baby was born, proportion of mothers reporting...				
<i>Feeling down, depressed, or hopeless</i>				
Always	28	1,064	1.1	(0.7-1.7)
Often	100	6,156	6.2	(4.9-8.0)
Sometimes	354	26,093	26.5	(23.7-29.4)
Rarely	450	35,372	35.9	(32.8-39.1)
Never	412	29,835	30.3	(27.4-33.3)
 <i>Having little or no pleasure in doing things</i>				
Always	59	3,408	3.5	(2.5-4.8)
Often	102	7,311	7.4	(5.9-9.4)
Sometimes	333	22,388	22.8	(20.2-25.6)
Rarely	374	28,964	29.5	(26.6-32.6)
Never	470	36,137	36.8	(33.7-40.0)
Mothers reporting significant post-partum depression[^]	214	14,005	14.3	(12.2-16.7)

[^]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, 2022**

Maternal Immunization	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Flu Shot				
No	741	47,959	49.2	(46.0-52.4)
Yes, before pregnancy	153	12,382	12.7	(10.6-15.1)
Yes, during pregnancy	439	37,197	38.1	(35.0-41.4)
Tdap				
No	378	22,599	22.9	(20.4-25.6)
Yes	883	69,989	70.9	(68.0-73.7)
I don't know	86	6,138	6.2	(4.8-8.0)

**Table 101. Plans for future infant immunization,
MI PRAMS, 2022**

Immunization Plans	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
As doctor recommends	987	75,874	78.7	(75.9-81.2)
All vaccines but on a different schedule	67	4,811	5.0	(3.7-6.7)
Only some vaccines	171	11,244	11.7	(9.8-13.9)
No vaccines planned	73	4,482	4.6	(3.5-6.2)

**Table 102. Average amount of maternal sleep each night in the last week,
MI PRAMS, 2022**

Quantity (hours)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-3	102	5,300	5.5	(4.3-7.0)
4-6	785	56,026	58.1	(54.8-61.3)
7-8	385	32,711	33.9	(30.8-37.1)
9+	28	2,402	2.5	(1.6-3.8)

**Table 103. Average number of times mother awoke each night in the last week,
MI PRAMS, 2022**

Number of awakenings	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-1	252	21,144	22.3	(19.7-25.3)
2	409	30,968	32.7	(29.7-35.9)
3	379	26,273	27.8	(24.9-30.8)
4+	240	16,271	17.2	(14.9-19.8)

**Table 104. Partner living arrangement with mother,
MI PRAMS, 2022**

Living arrangement	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (exclusive)				
Partner lives with me all the time	1,016	83,613	85.4	(83.4-87.3)
Partner lives with me some of the time	51	2,300	2.4	(1.7-3.3)
Partner does not live with me	121	5,391	5.5	(4.4-6.9)
I do not have a husband or partner	141	6,547	6.7	(5.4-8.2)

**Table 105. Ways that husband or partner supports mother,
MI PRAMS, 2022**

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)	1,131	87,790	97.1	(96.0-98.0)
My partner is someone I can talk with about things that are important to me	1,111	86,673	95.5	(94.0-96.6)
My partner is someone who is affectionate toward me	1,104	86,302	95.4	(93.9-96.6)
My partner is someone whom I can count on	1,112	86,328	95.2	(93.6-96.5)
My partner is someone who does things with me	1,098	86,110	94.8	(93.2-96.0)
My partner is someone who talks with me and spends time with me	1,090	85,534	94.5	(92.9-95.8)
My partner is someone I can count on for financial support if I need it	1,086	84,936	93.7	(91.9-95.1)
My partner is someone who understands how I am feeling	1,037	81,484	90.3	(88.2-92.1)

Note: The denominator for this item is limited to those who answered that they had a husband or partner and excludes those who say they did not have a husband or partner.

**Table 106. Cumulative number of ways that husband or partner supports mother,
MI PRAMS, 2022**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-2	54	3,032	3.3	(2.4-4.7)
3-5	55	2,620	2.9	(2.0-4.1)
6-7	131	9,054	10.0	(8.1-12.1)
8	951	76,276	83.8	(81.3-86.1)

Note: The denominator for this item is limited to those who answered that they had a husband or partner and excludes those who say they did not have a husband or partner.

**Table 107. People available to help watch baby,
MI PRAMS, 2022**

Infant caretakers	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Caretakers (non-exclusive)				
Husband/partner	998	76,866	78.8	(76.1-81.3)
Baby's grandparent	876	65,346	67.0	(63.9-70.0)
Other close family member/relative	465	32,915	33.7	(30.7-36.9)
Babysitter, nanny, or other childcare provider	121	9,588	9.8	(8.0-12.0)
Friend or neighbor	109	8,639	8.9	(7.1-10.9)
Staff at day care center	96	7,857	8.1	(6.4-10.0)
Other	30	1,910	2.0	(1.3-3.1)
Baby always with mom	184	12,126	12.4	(10.5-14.7)

**Table 108. Cumulative number of infant caretakers,
MI PRAMS, 2022**

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
None	71	5,390	5.5	(4.2-7.3)
1	361	24,582	25.2	(22.5-28.1)
2	482	35,294	36.2	(33.1-39.4)
3	295	23,127	23.7	(21.0-26.6)
4+	114	9,141	9.4	(7.6-11.5)

APPENDIX

Comparison of MI PRAMS 2022 Data Tables to MI PRAMS 2015 Data Tables

MI PRAMS 2022 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 2022 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 2022 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 2022 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
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Table 64 ^{**} . Total number of breastfeeding information sources <i>**New topic on Phase 8 survey</i>	

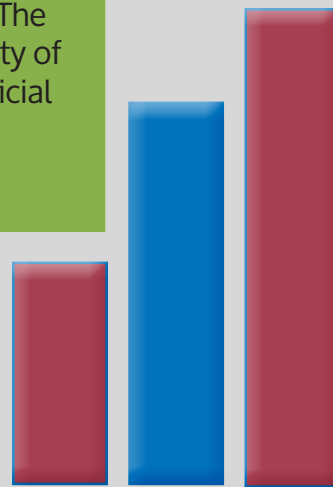
MI PRAMS 2022 Table	MI PRAMS 2015 Table
Table 65**. Did mother ever use a breast pump <i>**New topic on Phase 8 survey</i>	
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Table 76.* Prevalence of infant usually sleeping in a crib by maternal characteristics <i>*Direct comparison not possible between survey phases</i>	Table 48. Prevalence of infant usually sleeping on a crib by maternal characteristics
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Table 78**. Prevalence of infant usually sleeping on a couch, sofa, or armchair by maternal characteristics <i>**New topic on Phase 8 survey</i>	
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MI PRAMS 2022 Table	MI PRAMS 2015 Table
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Table 95**. Positive responses to stressful events	

MI PRAMS 2022 Table	MI PRAMS 2015 Table
**New topic on phase 8 survey	
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Phase 8 of the PRAMS includes birth years 2016 through 2022. Table numbers and names for the 2016-2022 Michigan PRAMS Maternal and Infant Health Summary Tables are identical. PRAMS tables, including tables for the 2015 birth year and past years, are available on the MI PRAMS Reports tab at www.michigan.gov/prams.

Michigan PRAMS is partially supported by Grant/
Cooperative Agreement Number U01 DP006244 from the
Centers for Disease Control and Prevention (CDC). The
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