

Telling the story of Michigan's mothers and babies.

2021 Birth Year Maternal and Infant Health Summary Tables

Table of Contents

Acknowledgments
Introduction to the 2021 MI PRAMS Annual Tables6
Table 1. Distribution of selected maternal characteristics, MI PRAMS, 2021
Table 2. Distribution of pre-pregnancy maternal body mass index categories, MI PRAMS, 20218
Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics, MI PRAMS, 2021
Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics, MI PRAMS, 202110
Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics, MI PRAMS, 202111
Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics, MI PRAMS, 2021 12
Table 7. Prevalence of maternal health problems during the 3 months before pregnancy, MI PRAMS, 2021
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, 202114
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, 202115
Table 9. Type of healthcare visits among women in the 12 months before pregnancy, MI PRAMS, 202116
Table 10. Type of counseling/screening among women reporting any healthcare visits in the 12 months before pregnancy, MI PRAMS, 2021 16
Table 11. Frequency of taking a folate-containing vitamin in the month before pregnancy, MI PRAMS, 202116
Table 12. Prevalence of consuming no folic acid containing vitamin in the month before pregnancy by maternalcharacteristics, MI PRAMS, 2021.17
Explanation of Pregnancy Intention, Pregnancy Timing, and Contraceptive Behavior
Table 13. Distribution of pregnancy intention categories, MI PRAMS, 2021
Table 14. Distribution of unintended pregnancy subtypes among women reporting either unsure or unintended pregnancy, MI PRAMS, 2021 19
Table 15. Prevalence of unintended (or unsure) pregnancy by maternal characteristics, MI PRAMS, 202120
Table 16. Distribution of contraceptive behaviors at the time of conception, MI PRAMS, 2021
Table 17. Prevalence of trying to conceive during the pre-pregnancy period by maternal characteristics,MI PRAMS, 202122
Table 18. Prevalence of becoming pregnant despite using any contraceptive practices by maternal characteristics,MI PRAMS, 202123
Table 19. Prevalence of contraception methods used by women who became pregnant despite using contraceptive practices, MI PRAMS, 2021
Table 20. Prevalence of women who were not trying to conceive - but were not doing anything to preventpregnancy - by maternal characteristics, MI PRAMS, 202125
Table 21. Reasons women who were not trying to conceive - but were not doing anything to prevent pregnancy - did not use contraception, MI PRAMS, 2021 26
Table 22. Prevalence of using any postpartum contraceptive method by maternal characteristics, MI PRAMS, 202127
Table 23. Prevalence of postpartum contraceptive methods, MI PRAMS, 2021
Table 24. Prevalence of no postpartum contraceptive methods by maternal characteristics, MI PRAMS, 2021
Table 25. Reasons for not using any postpartum contraception, MI PRAMS, 2021 30

Table 26. Trimester of entry into prenatal care, MI PRAMS, 2021	31
Table 27. Source of payments for prenatal care, MI PRAMS, 2021	31
Table 28. Prevalence of first trimester entry into prenatal care by maternal characteristics, MI PRAMS, 2021	32
Table 29. Prevalence of getting prenatal care as early as wanted, MI PRAMS, 2021	33
Table 30. Prevalence of getting prenatal care as early as wanted by first trimester entry into prenatal care, MI PRAMS, 2021	33
Table 31. Barriers to starting prenatal care as early as wanted among women who began prenatal care during the first trimester, MI PRAMS, 2021	34
Table 32. Barriers to starting prenatal care as early as wanted among women who began prenatal care after the first trimester, MI PRAMS, 2021	34
Table 33. Prevalence of topics discussed by health care provider during prenatal care visits, MI PRAMS, 2021	35
Table 34. Prevalence of Pregnancy Complications, MI PRAMS, 2021	35
Table 35. Prevalence of smoking during the 3 months before pregnancy by maternal characteristics, MI PRAMS, 2021	36
Table 36. Prevalence of smoking during the last 3 months of pregnancy by maternal characteristics, MI PRAMS, 2021	37
Table 37. Prevalence of smoking after pregnancy by maternal characteristics, MI PRAMS, 2021	38
Table 38. Prevalence of electronic cigarette usage during the 3 months before pregnancy by maternal characteristics, MI PRAMS, 2021	39
Table 39. Prevalence of electronic cigarette usage during the last 3 months of pregnancy, MI PRAMS, 2021	40
Table 40. Prevalence of hookah usage in 2 years before survey completion by maternal characteristics, MI PRAMS, 2021	41
Table 41. Prevalence of marijuana or hash usage in 12 months before pregnancy by maternal characteristics, MI PRAMS, 2021	42
Table 42. Prevalence of marijuana or hash usage during pregnancy by maternal characteristics, MI PRAMS, 2021	43
Table 43. Prevalence of marijuana or hash usage after pregnancy by maternal characteristics, MI PRAMS, 2021	44
Table 44. Prevalence of opioid pain reliever usage in 12 months before pregnancy by maternal characteristics, MI PRAMS, 2021	45
Table 45. Prevalence of opioid pain reliever usage during pregnancy by maternal characteristics, MI PRAMS, 2021	46
Table 46. Prevalence of opioid pain reliever usage after pregnancy by maternal characteristics, MI PRAMS, 2021	47
Table 47. Distribution of delivery methods, MI PRAMS, 2021	48
Table 48. Prevalence of low birthweight [^] by maternal characteristics, MI PRAMS, 2021	49
Table 49. Distribution of low birthweight subcategories [^] among low birthweight infants, MI PRAMS, 2021	50
Table 50. Prevalence of low birthweight [^] by smoking status during last three months of pregnancy, MI PRAMS, 2021	50
Table 51. Prevalence of high birthweight [^] by maternal characteristics, MI PRAMS, 2021	51
Table 52. Prevalence of high birthweight [^] by diabetes before pregnancy or gestational diabetes, MI PRAMS, 2021	52
Table 53. Distribution of infant birthweights and gestational ages^, MI PRAMS, 2021	52
Table 54. Prevalence of preterm birth [^] by maternal characteristics, MI PRAMS, 2021	53
Table 55. Breastfeeding duration categories^, MI PRAMS, 2021	54

Table 56. Reasons for not initiating breastfeeding, MI PRAMS, 2021	54
Table 57. Cumulative number of reasons for not initiating breastfeeding, MI PRAMS, 2021	54
Table 58. Prevalence of breastfeeding initiation by maternal characteristics, MI PRAMS, 2021	55
Table 59. Prevalence of 1-month breastfeeding duration by maternal characteristics, MI PRAMS, 2021	56
Table 60. Prevalence of 2-month breastfeeding duration by maternal characteristics, MI PRAMS, 2021	57
Table 61. Prevalence of 3-month breastfeeding duration by maternal characteristics, MI PRAMS, 2021	58
Table 62. Reasons for stopping breastfeeding, MI PRAMS, 2021	59
Table 63. Breastfeeding information sources before or after delivery, MI PRAMS, 2021	60
Table 64. Total number of breastfeeding information sources, MI PRAMS, 2021	60
Table 65. Did mother ever use a breast pump^, MI PRAMS, 2021	61
Table 66. Source of breast pump^, MI PRAMS, 2021	61
Table 67. Prevalence of ever using a breast pump^ by maternal characteristics, MI PRAMS, 2021	62
Table 68. Baby health indicators, MI PRAMS, 2021	63
Table 69. Distribution of WIC status during pregnancy, MI PRAMS, 2021	63
Table 70. How often infant slept alone in his/her own bed over last two weeks, MI PRAMS, 2021	63
Table 71. Prevalence of infant sleeping in the same room as mother when sleeping alone in his/her own own crib or bed^, MI PRAMS, 2021	64
Table 72. Infant sleep space characteristics, MI PRAMS, 2021	64
Table 73. Primary infant sleep position, MI PRAMS, 2021	64
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, 2021	65
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, 2021	66
Table 76. Prevalence of infant usually sleeping in a crib^ by maternal characteristics, MI PRAMS, 2021	67
Table 77. Prevalence of infant usually sleeping on an adult-sized mattress by maternal characteristics, MI PRAMS, 2021	68
Table 78. Prevalence of infant usually sleeping on a couch, sofa, or armchair by maternal characteristics, MI PRAMS, 2021	69
Table 79. Prevalence of infant usually sleeping in an infant car seat or swing by maternal characteristics, MI PRAMS, 2021	70
Table 80. Prevalence of infant usually sleeping in a sleep sack or wearable blanket by maternal characteristics, MI PRAMS, 2021	71
Table 81. Prevalence of infant usually sleeping with a blanket by maternal characteristics, MI PRAMS, 2021	72
Table 82. Prevalence of infant usually sleeping with toys, cushions, or pillows by maternal characteristics, MI PRAMS, 2021	73
Table 83. Prevalence of infant usually sleeping with crib bumper pads (mesh or non-mesh) by maternal characteristics, MI PRAMS, 2021	74
Table 84. Prevalence of infant usually sleeping on his or her back^ by maternal characteristics, MI PRAMS, 2021	75
Table 85. Prevalence of life stressors experienced by mothers in 12 months before delivery, MI PRAMS, 2021	76
Table 86. Cumulative number of life stressors experienced by mothers in 12 months before delivery,	

MI PRAMS, 2021
Table 87. Prevalence of unmet basic needs during pregnancy, MI PRAMS, 2021
Table 88. Cumulative number of unmet basic needs during pregnancy, MI PRAMS, 2021
Table 89. Prevalence of any physical violence 12 months before or during pregnancy, MI PRAMS, 2021
Table 90. Perpetrator of abuse 12 months before conception, MI PRAMS, 2021
Table 91. Perpetrator of abuse during pregnancy, MI PRAMS, 2021
Table 92. Prevalence of maternal adverse childhood experiences, MI PRAMS, 2021
Table 93. Cumulative number of maternal adverse childhood experiences, MI PRAMS, 2021
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, 2021
Notes on Maternal Resilience
Table 95. Positive responses to stressful events, MI PRAMS, 2021 80
Table 96. Cumulative number of positive responses to stressful life events, MI PRAMS, 2021
Table 97. Post-partum checkup for mother, MI PRAMS, 2021 81
Table 98. Prevalence of health care provider discussions and actions taken during postpartum checkup, MI PRAMS, 2021
Table 99. Post-partum depression symptoms, MI PRAMS, 2021
Table 100. Maternal immunization before and during pregnancy, MI PRAMS, 2021
Table 101. Plans for future infant immunization, MI PRAMS, 202183
Table 102. Average amount of maternal sleep each night in the last week, MI PRAMS, 2021
Table 103. Average number of times mother awoke each night in the last week, MI PRAMS, 2021
Table 104. Partner living arrangement with mother, MI PRAMS, 2021 Solution Solution
Table 105. Ways that husband or partner supports mother, MI PRAMS, 2021
Table 106. Cumulative number of ways that husband or partner supports mother, MI PRAMS, 202185
Table 107. People available to help watch baby, MI PRAMS, 2021
Table 108. Cumulative number of infant caretakers, MI PRAMS, 2021
APPENDIX

Acknowledgments

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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 women 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 2021 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 2021, 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 2021, 2,566 mothers were selected for MI PRAMS and 1,374 completed the survey, for an unweighted response rate of 53.5 percent. After adjusting for differing probabilities of selection within each stratum, the weighted response rate is 57.0 percent. Survey results from these 1,374 respondents are weighted to represent the approximately 101,632 pregnancies resulting in live births in 2021. 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 2021 birth year is the sixth 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: https://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.

Characteristic	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
Maternal Age				
Total	1,374	101,632	100.0	
<18 Years	22	1,223	1.2**	(0.7-2.2)
18-19 Years	35	1,947	1.9	(1.2-3.1)
20-24 Years	267	19,695	19.4	(16.9-22.1)
25-29 Years	421	31,164	30.7	(27.7-33.8)
30-34 Years	423	31,821	31.3	(28.4-34.4)
35-39 Years	170	13,619	13.4	(11.3-15.8)
40+ Years	36	2,164	2.1	(1.4-3.2)
Race/Ethnicity				
Total	1,368	100,912	100.0	
White, non-Hispanic	639	66,627	66.0	(63.5-68.5)
Black, non-Hispanic	533	17,603	17.4	(16.7-18.2)
Hispanic	69	6,347	6.3	(4.8-8.2)
Asian/Pacific Islander, non-Hispanic	45	4,142	4.1	(3.0-5.6)
Other, non-Hispanic	82	6,193	6.1	(4.7-7.9)
Education				
Total	1,369	101,182	100.0	
<high school<="" td=""><td>136</td><td>9,543</td><td>9.4</td><td>(7.6-11.7)</td></high>	136	9,543	9.4	(7.6-11.7)
HS Grad/GED	374	25,756	25.5	(22.7-28.5)
Some College	414	28,080	27.8	(25.0-30.7)
College Degree+	445	37,803	37.4	(34.4-40.5)
Pre-Pregnancy Insurance Status				
Total	1,331	98,899	100.0	
Private	737	60,636	61.3	(58.1-64.5)
Medicaid/Public	537	33,872	34.2	(31.2-37.4)
Uninsured	57	4,392	4.4	(3.2-6.1)
Marital Status				
Total	1,366	100,936	100.0	
Married	704	61,256	60.7	(57.6-63.7)
Other	662	39,680	39.3	(36.3-42.4)
Parity				, , , , , , , , , , , , , , , , , , ,
Total	1,371	101,436	100.0	
No Prior Live Births	573	39,801	39.2	(36.2-42.4)
1	410	33,041	32.6	(29.6-35.7)
2+	388	28,594	28.2	(25.3-31.3)
Last Year's Household Income		,	-	
Total	1,187	89,047	100.0	
<\$16,000	217	12,223	13.7	(11.6-16.2)
\$16,001-\$24,000	152	8,713	9.8	(8.0-12.0)
\$24,001-\$40,000	196	14,345	16.1	(13.7-18.9)
\$40,001-\$60,000	180	15,088	16.9	(14.4-19.8)
\$60,001+	442	38,678	43.4	(40.1-46.8)
*Relative standard error (RSE) exceeds 30%. Interp		,		(

Table 1. Distribution of selected maternal characteristics, MI PRAMS, 2021

Body Mass Index (BMI)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
BMI Category [†]				
Underweight	28	1,746	1.7	(1.0-2.8)
Normal Weight	538	40,489	39.8	(36.7-43.1)
Overweight	347	26,497	26.1	(23.3-29.0)
Obese	461	32,900	32.4	(29.4-35.5)

Table 2. Distribution of pre-pregnancy maternal body mass index categories,MI PRAMS, 2021

Hased 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.

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	28	1,746	1.7	(1.0-2.8)
Maternal Age				
<20 Years			*	
20-29 Years	22	1,430	2.8	(1.6-4.9)
30+ Years			*	
Race/Ethnicity				
White, non-Hispanic	12	1,151	1.7**	(0.9-3.4)
Black, non-Hispanic	12	402	2.3**	(1.3-4.1)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td></td><td></td><td>*</td><td></td></high>			*	
HS Grad/GED	11	759	2.9**	(1.3-6.6)
Some College	9	387	1.4**	(0.6-3.1)
College Degree+	6	363	1.0**	(0.4-2.5)
Pre-Pregnancy Insurance Status				
Private	8	602	1.0**	(0.4-2.4)
Medicaid/Public	16	895	2.6**	(1.3-5.3)
Uninsured			*	
Marital Status				
Married	10	755	1.2**	(0.6-2.7)
Other	17	953	2.4**	(1.2-4.6)
Parity				
No previous live birth	6	305	0.8**	(0.3-2.0)
1	8	714	2.2**	(1.0-4.7)
2+	14	727	2.5**	(1.1-5.7)
Last Year's Household Income				
<\$16,000			*	
\$16,001-\$24,000			*	
\$24,001-\$40,000			*	
\$40,001-\$60,000			*	
\$60,001+			*	

Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics,MI PRAMS, 2021

*Data not shown due to small sample size and/or relative standard error > 50%. **Relative standard error (RSE) exceeds 30%. Interpret with caution.

	Characteristic	Sample	Weighted	Weighted	95% Confidence	
		Frequency	Frequency	Percent	Interval	
	Total	538	40,489	39.8	(36.7-43.1)	
Matern	al Age					
	<20 Years	39	2,275	71.8	(53.6-84.9)	
	20-29 Years	265	19,387	38.1	(33.7-42.7)	
	30+ Years	234	18,826	39.5	(35.1-44.2)	
Race/Et	thnicity					
	White, non-Hispanic	273	27,042	40.6	(36.4-44.9)	
	Black, non-Hispanic	187	6,020	34.2	(29.9-38.8)	
	Hispanic	14	1,297	20.4	(11.8-32.9)	
	Asian/Pacific Islander, non-Hispanic	27	2,513	60.7	(44.2-75.0)	
	Other, non-Hispanic	35	3,353	54.1	(40.8-66.9)	
Educati	on					
	<high school<="" td=""><td>60</td><td>3,936</td><td>41.2</td><td>(30.6-52.8)</td></high>	60	3,936	41.2	(30.6-52.8)	
	HS Grad/GED	140	9,203	35.7	(29.7-42.3)	
	Some College	135	9,168	32.6	(27.2-38.6)	
	College Degree+	201	18,130	48.0	(42.8-53.2)	
Pre-Pre	gnancy Insurance Status					
	Private	306	25,586	42.2	(38.1-46.4)	
	Medicaid/Public	185	11,449	33.8	(28.6-39.4)	
	Uninsured	29	2,309	52.6	(36.6-68.0)	
Marital	Status					
	Married	286	25,185	41.1	(37.0-45.3)	
	Other	251	15,234	38.4	(33.5-43.6)	
Parity						
-	No previous live birth	248	17,244	43.3	(38.5-48.3)	
	1	168	13,964	42.3	(36.6-48.1)	
	2+	121	9,254	32.4	(26.6-38.7)	
Last Yea	ar's Household Income		-		. ,	
	<\$16,000	85	5,019	41.1	(32.4-50.3)	
	\$16,001-\$24,000	49	2,750	31.6	(22.7-42.0)	
	\$24,001-\$40,000	69	5,266	36.7	(28.7-45.5)	
	\$40,001-\$60,000	49	4,650	30.8	(23.3-39.5)	
	\$60,001+	188	16,992	43.9	(38.8-49.2)	

Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics,MI PRAMS, 2021

	Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
	Total	347	26,497	26.1	(23.3-29.0)
Matern	al Age				
	<20 Years	11	582	18.4**	(8.9-34.1)
	20-29 Years	170	13,441	26.4	(22.5-30.8)
	30+ Years	166	12,473	26.2	(22.3-30.5)
Race/Et	thnicity				
	White, non-Hispanic	161	17,207	25.8	(22.2-29.8)
	Black, non-Hispanic	128	4,277	24.3	(20.5-28.6)
	Hispanic	19	1,914	30.1	(19.1-44.1)
	Asian/Pacific Islander, non-Hispanic	12	1,100	26.5	(14.6-43.4)
	Other, non-Hispanic	24	1,644	26.6	(16.7-39.5)
Educati	on				
	<high school<="" td=""><td>31</td><td>2,131</td><td>22.3</td><td>(14.3-33.1)</td></high>	31	2,131	22.3	(14.3-33.1)
	HS Grad/GED	88	6,314	24.5	(19.2-30.7)
	Some College	106	7,684	27.4	(22.3-33.1)
	College Degree+	122	10,368	27.4	(23.0-32.4)
Pre-Pre	gnancy Insurance Status				
	Private	194	16,782	27.7	(24.1-31.6)
	Medicaid/Public	129	7,772	22.9	(18.6-28.0)
	Uninsured	10	1,039	23.6**	(12.0-41.2)
Marital	Status				
	Married	190	16,974	27.7	(24.1-31.7)
	Other	156	9,502	23.9	(19.8-28.6)
Parity					
	No previous live birth	140	10,055	25.3	(21.2-29.8)
	1	95	7,891	23.9	(19.2-29.2)
	2+	110	8,382	29.3	(23.8-35.5)
Last Yea	ar's Household Income				
	<\$16,000	42	1,857	15.2	(10.1-22.3)
	\$16,001-\$24,000	45	2,466	28.3	(19.8-38.7)
	\$24,001-\$40,000	41	3,482	24.3	(17.4-32.8)
	\$40,001-\$60,000	51	4,111	27.2	(20.2-35.7)
	\$60,001+	128	11,484	29.7	(25.1-34.8)

Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics,MI PRAMS, 2021

	Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
	Total	461	32,900	32.4	(29.4-35.5)
Materna			,		, , , , , , , , , , , , , , , , , , ,
	<20 Years			*	
	20-29 Years	231	16,600	32.6	(28.4-37.2)
	30+ Years	224	16,029	33.7	(29.4-38.2)
Race/Eth	nnicity		,		, , , , , , , , , , , , , , , , , , ,
	White, non-Hispanic	193	21,228	31.9	(27.9-36.1)
	Black, non-Hispanic	206	6,903	39.2	(34.8-43.9)
	Hispanic	35	3,110	49.0	(35.8-62.4)
	Asian/Pacific Islander, non-Hispanic		-	*	. ,
	Other, non-Hispanic	21	1,162	18.8	(10.4-31.5)
Educatio	n				- ·
	<high school<="" td=""><td>43</td><td>3,239</td><td>33.9</td><td>(23.9-45.7)</td></high>	43	3,239	33.9	(23.9-45.7)
	HS Grad/GED	135	9,481	36.8	(30.6-43.5)
	Some College	164	10,841	38.6	(33.0-44.6)
	College Degree+	116	8,943	23.7	(19.5-28.4)
	nancy Insurance Status				
-	Private	229	17,666	29.1	(25.5-33.1)
	Medicaid/Public	207	13,755	40.6	(35.1-46.4)
	Uninsured	16	949	21.6**	(11.5-37.0)
Marital S	Status				
	Married	218	18,342	29.9	(26.2-33.9)
	Other	238	13,990	35.3	(30.5-40.4)
Parity					
	No previous live birth	179	12,197	30.6	(26.3-35.3)
	1	139	10,472	31.7	(26.5-37.4)
	2+	143	10,232	35.8	(29.9-42.2)
Last Yeai	r's Household Income				
	<\$16,000	84	5,099	41.7	(33.0-51.0)
	\$16,001-\$24,000	55	3,411	39.2	(29.2-50.1)
	\$24,001-\$40,000	80	5,254	36.6	(28.7-45.3)
	\$40,001-\$60,000	76	6,178	40.9	(32.7-49.7)
	\$60,001+	120	9,658	25.0	(20.7-29.8)

Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics,MI PRAMS, 2021

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

Maternal Health Problem	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
Anxiety	459	34,916	34.5	(31.4-37.7)
Depression	282	21,127	20.9	(18.3-23.8)
Anemia	282	17,808	17.6	(15.3-20.2)
Asthma	176	11,758	11.7	(9.8-13.9)
Polycystic Ovary Syndrome (PCOS)	75	5,972	5.9	(4.6-7.7)
Thyroid Problems	68	5,684	5.6	(4.3-7.4)
Hypertension	93	5,280	5.3	(4.0-6.8)
Diabetes	63	4,640	4.6	(3.4-6.3)
Heart Problems	26	2,442	2.4	(1.5-3.8)
Epilepsy	17	1,313	1.3	(0.7-2.3)

Table 7. Prevalence of maternal health problems during the 3 months before pregnancy,MI PRAMS, 2021

	Characteristic	Sample	Weighted	Weighted	95% Confidence
	Characteristic	Frequency	Frequency	Percent	Interval
	Total	904	69,129	68.2	(65.1-71.2)
Materna	l Age				
	<20 Years	26	1,548	49.1	(31.2-67.2)
	20-29 Years	430	32,355	63.9	(59.2-68.3)
	30+ Years	448	35,226	74.0	(69.8-77.9)
Race/Eth	nicity				
	White, non-Hispanic	483	49,569	74.5	(70.5-78.2)
	Black, non-Hispanic	306	10,024	57.3	(52.6-61.9)
	Hispanic	39	3,517	55.6	(41.8-68.5)
	Asian/Pacific Islander, non-Hispanic	24	2,114	51.0	(35.3-66.6)
	Other, non-Hispanic	49	3,550	57.3	(43.6-70.0)
Educatio	n				
	<high school<="" td=""><td>55</td><td>3,684</td><td>38.7</td><td>(28.4-50.3)</td></high>	55	3,684	38.7	(28.4-50.3)
	HS Grad/GED	201	14,430	56.5	(49.8-63.0)
	Some College	278	19,251	68.6	(62.8-73.8)
	College Degree+	369	31,664	83.8	(79.6-87.2)
Pre-Preg	nancy Insurance Status				
-	Private	585	48,784	80.5	(76.9-83.6)
	Medicaid/Public	279	17,716	52.7	(46.9-58.4)
	Uninsured	16	1,422	32.4	(18.9-49.6)
Marital S	Status		·		, , , , , , , , , , , , , , , , , , ,
	Married	534	46,805	76.6	(72.8-80.0)
	Other	366	22,014	55.6	(50.4-60.7)
Parity					· · · · · · · · · · · · · · · · · · ·
,	No previous live birth	388	28,749	72.6	(68.0-76.7)
	1	284	22,986	69.7	(63.9-74.9)
	2+	229	17,197	60.2	(53.7-66.3)
Last Yea	r's Household Income				
	<\$16,000	106	6,249	51.3	(42.2-60.3)
	\$16,001-\$24,000	96	5,642	65.1	(54.4-74.4)
	\$24,001-\$40,000	117	8,471	59.2	(50.3-67.5)
	\$40,001-\$60,000	124	9,718	64.4	(55.5-72.4)
	\$60,001+	374	32,548	84.2	(79.9-87.7)

 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, 2021

	Characteristic	Sample	Weighted	Weighted	95% Confidence
	Characteristic	Frequency	Frequency	Percent	Interval
	Total	462	32,250	31.8	(28.8-34.9)
Materna	l Age				
	<20 Years	30	1,607	50.9	(32.8-68.8)
	20-29 Years	252	18,290	36.1	(31.7-40.8)
	30+ Years	180	12,353	26.0	(22.1-30.2)
Race/Eth	nnicity				
	White, non-Hispanic	155	16,926	25.5	(21.8-29.5)
	Black, non-Hispanic	221	7,478	42.7	(38.1-47.4)
	Hispanic	29	2,809	44.4	(31.5-58.2)
	Asian/Pacific Islander, non-Hispanic	21	2,028	49.0	(33.4-64.7)
	Other, non-Hispanic	33	2,644	42.7	(30.0-56.4)
Educatio	n				
	<high school<="" td=""><td>79</td><td>5,823</td><td>61.3</td><td>(49.7-71.6)</td></high>	79	5,823	61.3	(49.7-71.6)
	HS Grad/GED	167	11,109	43.5	(37.0-50.2)
	Some College	136	8,829	31.4	(26.2-37.2)
	College Degree+	76	6,138	16.2	(12.8-20.4)
Pre-Preg	nancy Insurance Status				
	Private	152	11,852	19.5	(16.4-23.1)
	Medicaid/Public	250	15,903	47.3	(41.6-53.1)
	Uninsured	41	2,970	67.6	(50.4-81.1)
Marital S	Status				
	Married	169	14,319	23.4	(20.0-27.2)
	Other	289	17,545	44.4	(39.3-49.6)
Parity					
-	No previous live birth	180	10,859	27.4	(23.3-32.0)
	1	124	10,009	30.3	(25.1-36.1)
	2+	158	11,382	39.8	(33.7-46.3)
Last Yea	r's Household Income				
	<\$16,000	109	5,938	48.7	(39.7-57.8)
	\$16,001-\$24,000	53	3,025	34.9	(25.6-45.6)
	\$24,001-\$40,000	78	5,849	40.8	(32.5-49.7)
	\$40,001-\$60,000	56	5,370	35.6	(27.6-44.5)
	\$60,001+	68	6,130	15.8	(12.3-20.1)

Table 8b. Prevalence of NO health care visits in the year before pregnancy - including dental or mentalhealth - with a doctor, nurse, or other healthcare worker by maternal characteristics, MI PRAMS, 2021

Weighted	147 - ¹ - 1 - 1 - 1	
cy Frequency	Weighted Percent	95% Confidence Interval
43,920	63.6	(59.8-67.3)
41,649	60.2	(56.3-64.0)
39,912	57.8	(53.8-61.7)
10,613	15.3	(12.6-18.5)
9,958	14.4	(11.9-17.3)
9,816	14.2	(11.6-17.2)
2,885	4.2	(2.9-6.0)
6.044	9.9	(7.8-12.4)
	2,885 6,844	•

Table 9. Type of healthcare visits among women in the 12 months before pregnancy,MI PRAMS, 2021

Table 10. Type of counseling/screening among women reporting any healthcare visitsin the 12 months before pregnancy, MI PRAMS, 2021

Type of counseling/screening	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Type (non-exclusive)				
Smoking screening	591	44,350	64.6	(60.7-68.3)
Depression screening	539	40,490	59.4	(55.5-63.3)
Current job duties	519	38,716	56.6	(52.6-60.5)
Emotional and physical abuse screening	506	37,636	54.7	(50.8-58.6)
Family planning	414	32,454	47.4	(43.4-51.3)
Birth control	426	32,425	47.4	(43.5-51.3)
Folic acid vitamins	364	30,084	44.2	(40.3-48.1)
Healthy weight	404	30,203	44.0	(40.1-48.0)
STI discussions	385	28,730	41.9	(38.1-45.9)
Improving pre-conception health	360	27,628	40.3	(36.5-44.2)
Controlling medical conditions before				
pregnancy (e.g., diabetes/high blood pressure)	307	23,370	34.1	(30.5-38.0)
HIV test administered	338	21,176	31.1	(27.7-34.8)

Table 11. Frequency of taking a folate-containing vitamin in the month before pregnancy,MI PRAMS, 2021

Frequency of vitamin use	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Frequency of vitamin use				
Didn't take a vitamin	628	46,167	45.5	(42.2-48.7)
1-3 times per week	150	10,144	10.0	(8.2-12.1)
4-6 times per week	90	6,883	6.8	(5.3-8.6)
Every day of the week	503	38,366	37.8	(34.7-41.0)

	Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
	Total	628	46,167	45.5	(42.2-48.7)
Materna	I Age				
	<20 Years	38	2,392	76.5**	(59.1-88.0)
	20-29 Years	344	25,782	50.7	(46.1-55.4)
	30+ Years	246	17,992	37.8	(33.3-42.5)
Race/Etl	nnicity				
	White, non-Hispanic	245	27,867	41.8	(37.6-46.2)
	Black, non-Hispanic	278	9,155	52.2	(47.5-56.9)
	Hispanic	39	3,812	60.1	(46.4-72.3)
	Asian/Pacific Islander, non-Hispanic	21	1,888	45.6	(30.4-61.6)
	Other, non-Hispanic	42	2,984	48.2	(35.1-61.6)
Educatio	n				
	<high school<="" td=""><td>73</td><td>5,739</td><td>60.4</td><td>(49.0-70.7)</td></high>	73	5,739	60.4	(49.0-70.7)
	HS Grad/GED	223	15,531	60.3	(53.7-66.6)
	Some College	197	13,951	49.7	(43.7-55.7)
	College Degree+	133	10,830	28.6	(24.2-33.6)
Pre-Preg	nancy Insurance Status				
	Uninsured	266	21,522	35.5	(31.6-39.6)
	Medicaid/Public	306	20,468	60.6	(54.9-65.9)
	Private	37	2,841	64.7	(48.1-78.4)
Marital S	Status				
	Married	248	22,225	36.3	(32.3-40.5)
	Other	377	23,856	60.2	(55.1-65.1)
Parity					
-	No previous live birth	255	17,752	44.7	(39.8-49.6)
	1	169	14,035	42.5	(36.8-48.4)
	2+	203	14,311	50.0	(43.6-56.5)
Last Yea	r's Household Income				
	<\$16,000	126	7,516	61.6	(52.7-69.8)
	\$16,001-\$24,000	79	4,600	52.9	(42.3-63.2)
	\$24,001-\$40,000	104	8,147	56.8	(48.0-65.2)
	\$40,001-\$60,000	85	7,239	48.0	(39.4-56.7)
	\$60,001+	130	11,336	29.3	(24.7-34.4)

Table 12. Prevalence of consuming no folic acid containing vitamin in the month before pregnancyby maternal characteristics, MI PRAMS, 2021

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**.

MI PRAMS, 2021						
	Sample	Weighted	Weighted	95% Confidence		
Intention	Frequency	Frequency	Percent	Interval		
Intended	784	63,024	62.5	(59.4-65.6)		
Unintended	312	19,845	19.7	(17.3-22.4)		
Unsure	264	17,889	17.8	(15.4-20.4)		

Table 13. Distribution of pregnancy intention categories,MI PRAMS, 2021

Table 14. Distribution of unintended pregnancy subtypes among women reporting either unsureor unintended pregnancy, MI PRAMS, 2021

Unintended Dreamanay Subtyre	Sample	Weighted	Weighted	95% Confidence
Unintended Pregnancy Subtype	Frequency	Frequency	Percent	Interval
Mistimed	221	14,781	39.2	(34.1-44.5)
Unwanted	91	5,064	13.4	(10.2-17.4)
Unsure	264	17,889	47.4	(42.2-52.7)

	Characteristic	Sample	Weighted	Weighted	95% Confidence
	Characteristic	Frequency	Frequency	Percent	Interval
	Total	312	19,845	19.7	(17.3-22.4)
Materna	l Age				
	<20 Years	25	1,545	48.7	(30.9-66.9)
	20-29 Years	195	13,056	26.0	(22.1-30.3)
	30+ Years	92	5,245	11.1	(8.6-14.2)
Race/Eth	nicity				
	White, non-Hispanic	108	11,550	17.5	(14.3-21.2)
	Black, non-Hispanic	168	5,698	32.9	(28.5-37.5)
	Hispanic	15	1,184	18.7	(10.4-31.4)
	Asian/Pacific Islander, non-Hispanic	7	619	14.9**	(6.7-29.9)
	Other, non-Hispanic	14	794	12.9**	(6.3-24.5)
Educatio	n				
	<high school<="" td=""><td>49</td><td>3,738</td><td>40.3</td><td>(29.5-52.1)</td></high>	49	3,738	40.3	(29.5-52.1)
	HS Grad/GED	110	6,479	25.5	(20.3-31.6)
	Some College	95	5,639	20.1	(15.8-25.3)
	College Degree+	58	3,989	10.6	(7.9-14.1)
Pre-Preg	nancy Insurance Status				
	Private	116	8,127	13.5	(10.9-16.5)
	Medicaid/Public	167	9,797	29.3	(24.3-34.8)
	Uninsured	16	1,246	28.6	(16.1-45.6)
Marital S	Status				
	Married	96	7,583	12.5	(9.9-15.6)
	Other	214	12,166	31.0	(26.4-35.9)
Parity					
-	No previous live birth	119	7,438	18.9	(15.4-23.1)
	1	83	5,813	17.6	(13.5-22.6)
	2+	109	6,525	23.1	(18.3-28.8)
Last Yea	r's Household Income				
	<\$16,000	70	3,241	27.2	(20.2-35.5)
	\$16,001-\$24,000	44	2,829	32.5	(23.1-43.6)
	\$24,001-\$40,000	57	3,737	26.3	(19.6-34.3)
	\$40,001-\$60,000	38	2,444	16.2	(10.9-23.4)
	\$60,001+	55	4,536	11.8	(8.7-15.8)

Table 15. Prevalence of unintended (or unsure) pregnancy by maternal characteristics,MI PRAMS, 2021

	Sample	Weighted	Weighted	95% Confidence
Contraceptive Practice Subtype	Frequency	Frequency	Percent	Interval
Trying to conceive	718	58,762	58.3	(55.1-61.5)
Avoiding pregnancy	219	14,623	14.5	(12.4-16.9)
Neither trying nor avoiding pregnancy	424	27,381	27.2	(24.4-30.2)

Table 16. Distribution of contraceptive behaviors at the time of conception,MI PRAMS, 2021

Characte	ristic	Sample Frequency	Weighted	Weighted	95% Confidence	
			Frequency	Percent	Interval	
Total		718	58,762	58.3	(55.1-61.5)	
Maternal Age						
<20 Years		10	609	19.4**	(8.0-40.2)	
20-29 Yea	rs	311	24,993	49.4	(44.8-54.1)	
30+ Years		397	33,160	70.4	(66.1-74.4)	
Race/Ethnicity						
White, no	n-Hispanic	434	43,346	65.5	(61.2-69.7)	
Black, nor	n-Hispanic	166	5,232	29.9	(25.9-34.3)	
Hispanic		35	3,270	51.8	(38.4-65.1)	
Asian/Pac	ific Islander, non-Hispanic	34	2,943	74.8	(58.1-86.4)	
Other, no	n-Hispanic	45	3,483	56.4	(42.6-69.2)	
Education						
<high sch<="" td=""><td>ool</td><td>35</td><td>2,468</td><td>26.1</td><td>(17.4-37.3)</td></high>	ool	35	2,468	26.1	(17.4-37.3)	
HS Grad/0	GED	144	11,345	45.2	(38.6-52.0)	
Some Col	ege	203	15,248	54.5	(48.5-60.4)	
College D	egree+	333	29,367	77.7	(73.0-81.8)	
Pre-Pregnancy Insura	nce Status					
Private		502	43,290	71.5	(67.6-75.1)	
Medicaid	/Public	177	12,008	36.0	(30.7-41.7)	
Uninsured	1	26	2,366	53.9	(38.0-69.0)	
Marital Status						
Married		518	45,776	75.3	(71.4-78.8)	
Other		197	12,731	32.4	(27.7-37.6)	
Parity						
No previo	us live birth	315	24,015	60.6	(55.8-65.3)	
1		252	21,788	66.3	(60.5-71.6)	
2+		149	12,832	45.6	(39.3-52.1)	
Last Year's Household	Income					
<\$16,000		65	4,347	36.0	(27.5-45.5)	
\$16,001-\$	524,000	55	3,526	40.5	(30.5-51.4)	
\$24,001-\$		81	6,377	45.1	(36.5-54.0)	
\$40,001-\$		101	8,959	59.4	(50.6-67.6)	
\$60,001+		346	30,437	78.9	(74.1-83.0)	

Table 17. Prevalence of trying to conceive during the pre-pregnancy period by maternal characteristics,MI PRAMS, 2021

Characteristic	Sample	Weighted	Weighted	95% Confidence	
	Frequency	Frequency	Percent	Interval	
Total	219	14,623	14.5	(12.4-16.9)	
Maternal Age					
<20 Years	16	973	31.1	(16.7-50.4)	
20-29 Years	126	8,376	16.6	(13.5-20.2)	
30+ Years	77	5,274	11.2	(8.5-14.6)	
Race/Ethnicity					
White, non-Hispanic	77	7,949	12.0	(9.4-15.2)	
Black, non-Hispanic	111	3,968	22.7	(18.9-27.0)	
Hispanic	17	1,545	24.5	(14.9-37.5)	
Asian/Pacific Islander, non-Hispanic			*		
Other, non-Hispanic	8	529	8.6**	(3.4-20.2)	
Education					
<high school<="" td=""><td>29</td><td>1,855</td><td>19.6</td><td>(12.2-30.0)</td></high>	29	1,855	19.6	(12.2-30.0)	
HS Grad/GED	68	4,748	18.9	(14.3-24.6)	
Some College	74	4,379	15.7	(11.8-20.5)	
College Degree+	48	3,641	9.6	(7.0-13.2)	
Pre-Pregnancy Insurance Status					
Private	85	6,689	11.1	(8.6-14.0)	
Medicaid/Public	115	6,850	20.5	(16.4-25.4)	
Uninsured	11	656	14.9**	(7.5-27.6)	
Marital Status					
Married	68	5,361	8.8	(6.7-11.5)	
Other	151	9,262	23.6	(19.5-28.3)	
Parity					
No previous live birth	93	5,998	15.1	(12.0-19.0)	
1	54	4,213	12.8	(9.3-17.4)	
2+	72	4,411	15.7	(11.7-20.7)	
Last Year's Household Income					
<\$16,000	49	2,406	19.9	(14.1-27.4)	
\$16,001-\$24,000	22	1,569	18.0	(11.0-28.2)	
\$24,001-\$40,000	45	2,926	20.7	(14.7-28.3)	
\$40,001-\$60,000	29	2,057	13.6	(8.5-21.1)	
\$60,001+	38	3,152	8.2	(5.7-11.6)	

Table 18. Prevalence of becoming pregnant despite using any contraceptive practices by maternal characteristics, MI PRAMS, 2021

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

Method	Sample	Weighted	Weighted	95% Confidence
Method	Frequency	Frequency	Percent	Interval
Reason (non-exclusive)				
Withdrawal	98	6,464	42.7	(34.8-51.1)
Condoms	74	4,341	28.7	(22.0-36.5)
Oral Contraceptives	50	3,448	22.8	(16.5-30.6)
Rhythm Method	22	1,923	12.7	(8.0-19.7)
Shot Every 3 Months	13	1,003	6.6**	(3.2-13.1)
Intrauterine Device	10	599	4.0**	(2.0-7.7)
Contraceptive Implant	7	527	3.5**	(1.4-8.6)
Contraceptive Patch or Ring	9	484	3.2**	(1.4-7.3)
Other	7	373	2.5**	(1.1-5.5)

Table 19. Prevalence of contraception methods used by women who became pregnantdespite using contraceptive practices, MI PRAMS, 2021

	Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
	Total	424	27,381	27.2	(24.4-30.2)
Maternal A	Age				
	<20 Years	30	1,550	49.5	(31.5-67.7)
	20-29 Years	246	17,177	34.0	(29.6-38.6)
	30+ Years	148	8,654	18.4	(15.2-22.1)
Race/Ethn	icity				
	White, non-Hispanic	122	14,835	22.4	(18.8-26.5)
	Black, non-Hispanic	252	8,294	47.4	(42.8-52.1)
	Hispanic	16	1,493	23.7	(13.9-37.4)
	Asian/Pacific Islander, non-Hispanic			*	
	Other, non-Hispanic	28	2,167	35.1	(23.1-49.2)
Education					
	<high school<="" td=""><td>69</td><td>5,129</td><td>54.3</td><td>(42.7-65.4)</td></high>	69	5,129	54.3	(42.7-65.4)
	HS Grad/GED	154	9,002	35.9	(29.8-42.5)
	Some College	135	8,340	29.8	(24.7-35.5)
	College Degree+	64	4,795	12.7	(9.5-16.7)
Pre-Pregna	ancy Insurance Status				
-	Uninsured	149	10,556	17.4	(14.5-20.8)
	Medicaid/Public	238	14,479	43.4	(37.8-49.2)
	Private	20	1,370	31.2	(18.3-47.8)
Marital Sta	atus		·		
	Married	114	9,674	15.9	(13.0-19.4)
	Other	305	17,266	44.0	(38.9-49.2)
Parity					, , , , , , , , , , , , , , , , , , ,
	No previous live births	160	9,583	24.2	(20.3-28.6)
	1	101	6,860	20.9	(16.5-26.1)
	2+	162	10,869	38.7	(32.6-45.1)
Last Year's	Household Income		,		, , , , , , , , , , , , , , , , , , ,
-	<\$16,000	100	5,318	44.1	(35.2-53.3)
	\$16,001-\$24,000	74	3,603	41.4	(31.6-51.9)
	\$24,001-\$40,000	69	4,835	34.2	(26.4-43.0)
	\$40,001-\$60,000	50	4,072	27.0	(20.0-35.4)
	\$60,001+	57	4,988	12.9	(9.6-17.1)

Table 20. Prevalence of women who were not trying to conceive - but were not doing anything to preventpregnancy - by maternal characteristics, MI PRAMS, 2021

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

Reason	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reason (non-exclusive)				
Didn't Mind Getting Pregnant	203	14,514	52.3	(46.1-58.5)
Thought Couldn't Get Pregnant at				
That Time	105	6,608	23.7	(18.9-29.3)
Partner Didn't Want to Use Birth				
Control	57	3,692	13.3	(9.6-18.1)
Side Effects from Birth Control	49	2,694	9.7	(6.7-13.7)
Forgot to Use Birth Control	30	2,407	8.7	(5.5-13.4)
Thought Self/Partner Sterile	32	2,152	7.7	(5.0-11.7)
Problems Getting Birth Control	15	905	3.3**	(1.5-6.9)
Other Reason	46	2,618	9.4	(6.3-13.8)

Table 21. Reasons women who were not trying to conceive - but were not doing anything to preventpregnancy - did not use contraception, MI PRAMS, 2021

	Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
	Total	1,023	76,977	76.8	(73.8-79.4)
Materna	l Age				
	<20 Years	40	2,070	68.3**	(47.4-83.8)
	20-29 Years	502	37,399	74.5	(70.2-78.4)
	30+ Years	481	37,507	79.7	(75.7-83.2)
Race/Eth	nnicity				
	White, non-Hispanic	501	52,125	78.5	(74.7-81.9)
	Black, non-Hispanic	382	12,365	72.2	(67.7-76.3)
	Hispanic	48	4,624	74.5	(60.5-84.8)
	Asian/Pacific Islander, non-Hispanic	33	2,977	73.7	(56.6-85.7)
	Other, non-Hispanic	54	4,299	74.1	(60.4-84.3)
Educatio	n				
	<high school<="" td=""><td>93</td><td>6,135</td><td>67.1</td><td>(55.0-77.2)</td></high>	93	6,135	67.1	(55.0-77.2)
	HS Grad/GED	261	17,648	69.0	(62.4-75.0)
	Some College	306	21,801	78.3	(73.0-82.8)
	College Degree+	359	30,981	83.1	(78.9-86.6)
Pre-Preg	nancy Insurance Status				
	Private	560	47,852	79.7	(76.2-82.8)
	Medicaid/Public	396	24,315	73.1	(67.5-78.1)
	Uninsured	38	2,880	67.1	(50.0-80.6)
Marital S	Status				
	Married	551	48,765	80.6	(77.1-83.7)
	Other	465	27,537	70.4	(65.3-75.0)
Parity					
-	No previous live birth	402	29,108	74.5	(70.0-78.5)
	1	311	24,902	75.6	(70.1-80.4)
	2+	309	22,866	81.4	(75.6-86.1)
Last Yea	r's Household Income				
	<\$16,000	149	8,132	66.8	(57.4-74.9)
	\$16,001-\$24,000	106	6,096	70.8	(60.4-79.4)
	\$24,001-\$40,000	144	10,237	71.5	(62.8-78.8)
	\$40,001-\$60,000	148	12,839	85.1	(78.2-90.1)
	\$60,001+	358	32,204	83.6	(79.4-87.1)

Table 22. Prevalence of using any postpartum contraceptive method by maternal characteristics,MI PRAMS, 2021

Method	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Pregnancy prevention method (non-exc	lusive)			
Condoms	278	22,414	29.0	(25.7-32.5)
Oral Contraceptives	231	16,604	21.5	(18.6-24.7)
Withdrawal	195	15,561	20.1	(17.3-23.3)
Abstinence	151	10,593	13.7	(11.3-16.4)
Intrauterine Device	106	8,271	10.7	(8.6-13.3)
Tubal Ligation	94	6,672	8.6	(6.7-11.1)
Rhythm Method	53	4,896	6.3	(4.8-8.4)
Shot Every 3 Months	87	4,481	5.8	(4.4-7.6)
Contraceptive Implant	46	3,415	4.4	(3.1-6.3)
Partner Had Vasectomy	34	3,271	4.2	(2.9-6.1)
Contraceptive Patch or Vaginal Ring	25	1,530	2.0	(1.2-3.3)
Other Method	20	1,349	1.7	(1.0-3.0)
				-

Table 23. Prevalence of postpartum contraceptive methods,MI PRAMS, 2021

	Charactoristic	Sample	Weighted	Weighted	95% Confidence
	Characteristic	Frequency	Frequency	Percent	Interval
	Total	328	23,313	23.2	(20.6-26.2)
Maternal	Age				
	<20 Years	15	961	31.7**	(16.2-52.6)
	20-29 Years	174	12,790	25.5	(21.6-29.8)
	30+ Years	139	9,562	20.3	(16.8-24.3)
Race/Eth	nicity				
	White, non-Hispanic	136	14,270	21.5	(18.1-25.3)
	Black, non-Hispanic	138	4,760	27.8	(23.7-32.3)
	Hispanic	19	1,585	25.5	(15.2-39.5)
	Asian/Pacific Islander, non-Hispanic	11	1,064	26.3	(14.3-43.4)
	Other, non-Hispanic	23	1,502	25.9	(15.7-39.6)
Educatior	1				
	<high school<="" td=""><td>38</td><td>3,012</td><td>32.9</td><td>(22.8-45.0)</td></high>	38	3,012	32.9	(22.8-45.0)
	HS Grad/GED	108	7,916	31.0	(25.0-37.6)
	Some College	102	6,050	21.7	(17.2-27.0)
	College Degree+	79	6,296	16.9	(13.4-21.1)
Pre-Pregr	nancy Insurance Status				
	Private	166	12,172	20.3	(17.2-23.8)
	Medicaid/Public	131	8,952	26.9	(21.9-32.5)
	Uninsured	18	1,412	32.9	(19.4-50.0)
Marital St	tatus				
	Married	145	11,703	19.4	(16.3-22.9)
	Other	182	11,589	29.6	(25.0-34.7)
Parity					
-	No previous live birth	160	9,967	25.5	(21.5-30.0)
	1	95	8,021	24.4	(19.6-29.9)
	2+	71	5,229	18.6	(13.9-24.4)
Last Year	's Household Income				
	<\$16,000	67	4,050	33.2	(25.1-42.6)
	\$16,001-\$24,000	45	2,516	29.2	(20.6-39.6)
	\$24,001-\$40,000	51	4,083	28.5	(21.2-37.2)
	\$40,001-\$60,000	32	2,249	14.9	(9.9-21.8)
	\$60,001+	82	6,315	16.4	(12.9-20.6)

Table 24. Prevalence of no postpartum contraceptive methods by maternal characteristics,MI PRAMS, 2021

Reason	Sample	Weighted	Weighted	95% Confidence
incusoff.	Frequency	Frequency	Percent	Interval
Reason (non-exclusive)				
Doesn't Want to Use Birth Control	122	8,869	37.4	(31.1-44.2)
Side Effects from Birth Control	91	6,477	27.5	(21.8-33.9)
Not Having Sex	94	6,015	25.4	(20.0-31.6)
Wants to Get Pregnant	47	3,351	14.1	(10.2-19.3)
Partner Doesn't Want to Use Anything	27	1,512	6.4	(4.0-10.1)
Pregnant now	12	763	3.2**	(1.5-7.1)
Problems Paying for Birth Control			*	
Mother Had Tubes Tied			*	
Other Reason	69	5,465	23.1	(17.7-29.5)

Table 25. Reasons for not using any postpartum contraception,MI PRAMS, 2021

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

Trimester of entry	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval	
1st Trimester	1,162	88,499	89.5	(87.4-91.4)	
2nd Trimester	141	8,680	8.8	(7.1-10.8)	
3rd Trimester	16	827	0.8**	(0.4-1.6)	
No prenatal care	13	840	0.8**	(0.4-1.8)	

Table 26. Trimester of entry into prenatal care, MI PRAMS 2021

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

MI PRAMS, 2021					
Source of prenatal care payment	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval	
Source of payment (non-exclusive)					
Did not have prenatal care	30	2,065	2.0	(1.3-3.2)	
Private - from work	616	51,574	51.9	(48.6-55.2)	
Medicaid	658	42,655	42.9	(39.7-46.2)	
Private - from parent	66	5,493	5.5	(4.2-7.3)	
Private - from MI Health Insurance Marketplace	36	2,355	2.4	(1.6-3.6)	
Other government	9	671	0.7**	(0.3-1.5)	
Private - TRICARE/other military	11	725	0.7**	(0.3-1.6)	
Indian Health Services or other tribal			*		
Uninsured during pregnancy			*		
Other	42	2,889	2.9	(2.0-4.2)	

Table 27. Source of payments for prenatal care,

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

	Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
	Total				
Matawal	Total	1,162	88,499	89.5	(87.4-91.4)
Maternal	-	27	1 0 2 4		
	<20 Years	37	1,934	66.6	(45.7-82.5)
	20-29 Years	567	43,490	88.0	(84.7-90.7)
	30+ Years	558	43,075	92.6	(89.8-94.6)
Race/Ethn	•		~~~~~		
	White, non-Hispanic	589	60,253	92.2	(89.3-94.4)
	Black, non-Hispanic	403	13,239	78.8	(74.6-82.5)
	Hispanic	57	5,417	90.9**	(79.4-96.3)
	Asian/Pacific Islander, non-Hispanic	37	3,653	90.4**	(78.1-96.1)
	Other, non-Hispanic	71	5,244	87.6**	(73.9-94.7)
Education					
	<high school<="" td=""><td>90</td><td>6,696</td><td>73.7</td><td>(62.3-82.7)</td></high>	90	6,696	73.7	(62.3-82.7)
	HS Grad/GED	291	20,124	82.7	(76.9-87.3)
	Some College	363	25,765	92.3	(89.1-94.7)
	College Degree+	414	35,479	95.7	(93.1-97.3)
Pre-Pregn	ancy Insurance Status				
	Private	676	56,635	94.8	(92.7-96.4)
	Medicaid/Public	412	26,621	82.6	(77.9-86.5)
	Uninsured	42	3,109	72.1	(54.2-84.9)
Marital St	atus				
	Married	638	55,698	92.4	(89.7-94.4)
	Other	517	32,174	84.9	(80.9-88.2)
Parity					
-	No previous live birth	489	35,214	91.0	(87.8-93.4)
	1	351	28,639	88.9	(84.3-92.3)
	2+	319	24,449	88.2	(83.7-91.5)
Last Year's	s Household Income				
	<\$16,000	143	8,149	73.1	(63.8-80.7)
	\$16,001-\$24,000	126	7,316	85.5	(76.4-91.5)
	\$24,001-\$40,000	171	12,759	90.4	(84.4-94.3)
	\$40,001-\$60,000	163	13,733	92.3**	(86.3-95.8)
	\$60,001+	414	36,671	96.4	(93.9-97.9)

Table 28. Prevalence of first trimester entry into prenatal care by maternal characteristics,MI PRAMS, 2021

IVII PRAIVIS, 2021					
Got care as early as wanted	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval	
No	193	13,094	13.0	(11.0-15.4)	
Yes	1,161	87,317	87.0	(84.6-89.0)	

Table 29. Prevalence of getting prenatal care as early as wanted,MI PRAMS, 2021

Table 30. Prevalence of getting prenatal care as early as wanted by first trimester entry into prenatal care,MI PRAMS, 2021

	,			
Trimester of Entry to Prenatal Care	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
First Trimester				
Yes, started PNC as early as wanted	1,036	79,759	90.3	(88.1-92.2)
No, wanted to start PNC earlier	123	8,540	9.7	(7.8-11.9)
After First Trimester				
Yes, started PNC as early as wanted	90	5,086	54.1	(43.5-64.2)
No, wanted to start PNC earlier	66	4,321	45.9	(35.8-56.5)

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Barrier (non-exclusive)		. ,		
Could not get appt when I wanted one	69	5,181	65.4	(54.5-74.9)
Doctor/health plan would not start as				
early as I wanted	44	3,625	43.9	(33.3-55.2)
Did not know pregnant	25	1,500	18.8	(11.7-28.8)
No time off from work or school	7	576	7.3**	(3.1-16.1)
No childcare	7	474	6.0**	(2.4-14.0)
Too many other things	9	420	5.3**	(2.1-12.5)
Not enough money to pay			*	
No Medicaid card			*	
Wanted to keep pregnancy secret			*	
No transportation			*	
Did not want prenatal care			*	

Table 31. Barriers to starting prenatal care as early as wanted among women who began prenatal care during the first trimester, MI PRAMS, 2021

*Data not shown due to small sample size and/or relative standard error > 50%. **Relative standard error (RSE) exceeds 30%. Interpret with caution.

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Barrier (non-exclusive)				
Could not get appt when I wanted one	37	2,403	50.3	(35.3-65.2)
Too many other things	23	1,804	36.9	(23.2-53.0)
Did not know pregnant	30	1,668	33.8	(21.2-49.2)
Doctor/health plan would not start as early as I wanted	14	1,218	24.9	(13.8-40.6)
No transportation	10	897	18.2**	(8.4-34.9)
Not enough money or insurance to pay	10	790	16.2**	(7.4-32.0)
Could not get childcare	9	780	15.8**	(7.2-31.4)
Wanted to keep pregnancy secret	14	735	14.8**	(7.3-27.7)
No time off from work or school	7	535	11.1**	(4.8-23.6)
No Medicaid card			*	
Did not want prenatal care			*	

Table 32. Barriers to starting prenatal care as early as wanted among women who began prenatal careafter the first trimester, MI PRAMS, 2021

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

	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
Topic (non-exclusive)				
Using Prescription Medicine During Pregnancy	1,284	96,674	96.8	(95.6-97.7)
Smoking During Pregnancy	1,288	96,403	96.5	(95.2-97.4)
Using Alcohol During Pregnancy	1,272	95,242	95.3	(93.8-96.4)
Breastfeeding Plans	1,225	90,037	90.6	(88.5-92.3)
Feeling depressed	1,162	85,559	86.4	(84.0-88.4)
Using Illegal Drug During Pregnancy	1,151	84,793	85.3	(82.9-87.4)
Post-partum contraception plans	1,133	82,982	83.2	(80.7-85.5)
Experiencing emotional of physical abuse	1,114	82,233	83.0	(80.4-85.3)
Offered HIV testing	876	62,904	64.4	(61.2-67.5)
Knowledge of appropriate weight gain	686	48,042	48.7	(45.4-52.0)

Table 33. Prevalence of topics discussed by health care provider during prenatal care visits,MI PRAMS, 2021

Table 34. Prevalence of Pregnancy Complications,MI PRAMS, 2021

Pregnancy Complications	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Depression	271	19,439	19.3	(16.8-22.0)
Severe nausea, vomiting, dehydration	281	18,683	18.6	(16.2-21.3)
High Blood Pressure	260	15,428	15.3	(13.2-17.7)
Gestational Diabetes (excluding Pre-Pregnancy Diabetes)	149	11,872	12.0	(9.9-14.3)
Kidney/Bladder Infection	160	11,365	11.3	(9.4-13.6)

WI PRAWS, 2021					
Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval	
Total	209	16,608	16.4	(14.0-19.1)	
Maternal Age					
<20 Years			*		
20-29 Years	116	10,195	20.1	(16.4-24.4)	
30+ Years	90	6,101	12.8	(10.0-16.4)	
Race/Ethnicity					
White, non-Hispanic	111	12,361	18.6	(15.3-22.4)	
Black, non-Hispanic	75	2,439	13.9	(11.0-17.5)	
Hispanic	8	705	11.1**	(4.8-23.5)	
Asian/Pacific Islander, non-Hispanic			0.0		
Other, non-Hispanic	13	806	13.1**	(6.7-23.9)	
Education					
<high school<="" td=""><td>39</td><td>3,244</td><td>34.0</td><td>(23.9-46.0)</td></high>	39	3,244	34.0	(23.9-46.0)	
HS Grad/GED	76	5,900	22.9	(17.7-29.2)	
Some College	74	5,366	19.1	(14.6-24.7)	
College Degree+	18	1,802	4.8	(2.9-7.8)	
Pre-Pregnancy Insurance Status					
Private	54	5,052	8.4	(6.2-11.1)	
Medicaid/Public	137	10,476	31.0	(25.7-36.8)	
Uninsured	11	799	18.2**	(9.0-33.4)	
Marital Status					
Married	57	5,998	9.8	(7.4-12.8)	
Other	148	10,237	25.9	(21.4-30.9)	
Parity					
No previous live birth	65	4,538	11.4	(8.6-15.0)	
1	54	5,278	16.0	(11.8-21.3)	
2+	90	6,792	23.8	(18.6-29.9)	
Last Year's Household Income					
<\$16,000	60	4,330	35.4	(26.9-45.0)	
\$16,001-\$24,000	29	1,845	21.2	(13.5-31.6)	
\$24,001-\$40,000	40	2,896	20.2	(13.8-28.5)	
\$40,001-\$60,000	32	2,999	19.9	(13.7-27.9)	
\$60,001+	21	2,246	5.8	(3.6-9.2)	

Table 35. Prevalence of smoking during the 3 months before pregnancy by maternal characteristics,MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	109	8606	8.5	(6.7-10.7)
Maternal Age				
<20 Years			*	
20-29 Years	55	4855	9.6	(7.0-13.0)
30+ Years	53	3555	7.5	(5.3-10.5)
Race/Ethnicity				
White, non-Hispanic	61	6522	9.8	(7.3-12.9)
Black, non-Hispanic	39	1253	7.2	(5.1-9.9)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			0.0	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td>24</td><td>2084</td><td>21.9</td><td>(13.5-33.5)</td></high>	24	2084	21.9	(13.5-33.5)
HS Grad/GED	40	3119	12.1	(8.3-17.4)
Some College	38	2635	9.4	(6.3-13.9)
College Degree+	6	571	1.5**	(0.6-3.9)
Pregnancy Insurance Status				
Medicaid/Public	20	1658	2.8	(1.7-4.7)
Private	83	6681	17.9	(13.8-22.8)
Marital Status				
Married	23	2642	4.3	(2.8-6.6)
Other	84	5729	14.5	(11.0-18.9)
Parity				
No previous live birth	30	2067	5.2	(3.4-8.0)
1	24	2681	8.1	(5.1-12.7)
2+	55	3857	13.5	(9.6-18.6)
Last Year's Household Income				
<\$16,000	41	3335	27.3	(19.2-37.1)
\$16,001-\$24,000	15	778	8.9	(4.5-16.9)
\$24,001-\$40,000	21	1478	10.3	(5.9-17.4)
\$40,001-\$60,000	17	1463	9.7	(5.6-16.2)
\$60,001+			*	

Table 36. Prevalence of smoking during the last 3 months of pregnancy by maternal characteristics,MI PRAMS, 2021

*Data not shown due to small sample size and/or relative standard error > 50%. **Relative standard error (RSE) exceeds 30%. Interpret with caution.

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	140	10,168	10.0	(8.1-12.3)
Maternal Age				
<20 Years			*	
20-29 Years	76	6,044	11.9	(9.1-15.5)
30+ Years	63	3,928	8.3	(6.0-11.3)
Race/Ethnicity				
White, non-Hispanic	64	7,024	10.5	(8.0-13.8)
Black, non-Hispanic	60	1,972	11.3	(8.6-14.5)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	9	520	8.4**	(3.7-18.2)
Education				
<high school<="" td=""><td>27</td><td>2,051</td><td>21.5</td><td>(13.4-32.7)</td></high>	27	2,051	21.5	(13.4-32.7)
HS Grad/GED	53	3,689	14.3	(10.2-19.7)
Some College	50	3,329	11.9	(8.3-16.6)
College Degree+	9	904	2.4**	(1.2-4.9)
Post Pregnancy Insurance Status				
Private	24	2,078	3.6	(2.2-5.8)
Medicaid/Public	109	7,799	19.5	(15.5-24.2)
Uninsured			*	
Marital Status				
Married	31	3,079	5.0	(3.4-7.4)
Other	107	6,854	17.3	(13.6-21.8)
Parity				
No previous live birth	35	2,403	6.1	(4.1-9.0)
1	33	3,196	9.7	(6.4-14.4)
2+	72	4,569	16.0	(11.9-21.2)
Last Year's Household Income				
<\$16,000	47	3,424	28.0	(20.1-37.6)
\$16,001-\$24,000	17	781	9.0**	(4.6-16.7)
\$24,001-\$40,000	27	1,874	13.1	(8.0-20.5)
\$40,001-\$60,000	23	1,823	12.1	(7.6-18.8)
\$60,001+	7	760	2.0**	(0.9-4.4)

Table 37. Prevalence of smoking after pregnancy by maternal characteristics,MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	89	7,131	7.1	(5.5-9.0)
Maternal Age				
<20 Years	9	574	18.1**	(7.8-36.6)
20-29 Years	60	5,033	10.0	(7.4-13.2)
30+ Years	20	1,524	3.2	(1.9-5.4)
Race/Ethnicity				
White, non-Hispanic	50	4,980	7.5	(5.5-10.2)
Black, non-Hispanic	22	809	4.7	(3.0-7.1)
Hispanic	6	642	10.1**	(4.3-21.8)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	10	662	10.8**	(5.0-21.7)
Education				
<high school<="" td=""><td>14</td><td>1,257</td><td>13.2**</td><td>(6.9-23.7)</td></high>	14	1,257	13.2**	(6.9-23.7)
HS Grad/GED	33	2,317	9.0	(5.9-13.5)
Some College	34	2,760	10.0	(6.8-14.4)
College Degree+	8	797	2.1**	(1.0-4.4)
Pre-Pregnancy Insurance Status				
Private	29	2,678	4.5	(2.9-6.7)
Medicaid/Public	53	4,050	12.1	(8.8-16.4)
Uninsured	6	365	8.3**	(3.2-20.1)
Marital Status				
Married	24	2,588	4.3	(2.7-6.5)
Other	64	4,523	11.5	(8.6-15.3)
Parity				
No previous live birth	47	3,756	9.5	(6.9-13.0)
1	25	1,906	5.8	(3.5-9.4)
2+	17	1,469	5.2	(2.9-9.2)
Last Year's Household Income				
<\$16,000	18	1,039	8.6**	(4.7-15.2)
\$16,001-\$24,000	18	1,197	13.8	(7.9-23.1)
\$24,001-\$40,000	23	1,525	10.6	(6.6-16.7)
\$40,001-\$60,000	6	699	4.6**	(2.0-10.5)
\$60,001+	13	1,596	4.1	(2.3-7.2)

Table 38. Prevalence of electronic cigarette usage during the 3 months before pregnancy by maternalcharacteristics, MI PRAMS, 2021

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

E-cigarette Usage	Sample	Weighted	Weighted	95% Confidence		
	Frequency	Frequency	Percent	Interval		
No	1,326	97,919	97.3	(95.9-98.2)		
Yes	33	2,708	2.7	(1.8-4.1)		

Table 39. Prevalence of electronic cigarette usage during the last 3 months of pregnancyMI PRAMS, 2021

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	87	4,676	4.7	(3.7-6.0)
Maternal Age				
<20 Years			*	
20-29 Years	56	3,193	6.4	(4.7-8.7)
30+ Years	27	1,246	2.7	(1.8-4.0)
Race/Ethnicity				
White, non-Hispanic	15	1,256	1.9	(1.1-3.4)
Black, non-Hispanic	59	2,426	14.0	(10.9-17.8)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	8	595	10.3**	(4.7-21.3)
Education				
<high school<="" td=""><td>8</td><td>388</td><td>4.1</td><td>(2.0-8.4)</td></high>	8	388	4.1	(2.0-8.4)
HS Grad/GED	26	1,407	5.5	(3.5-8.7)
Some College	32	1,515	5.5	(3.6-8.3)
College Degree+	21	1,365	3.7	(2.2-6.0)
Pre-Pregnancy Insurance Status				
Private	41	2,230	3.7	(2.6-5.3)
Medicaid/Public	37	2,027	6.1	(4.2-9.0)
Uninsured	6	268	6.3**	(2.7-13.9)
Marital Status				
Married	20	1,392	2.3	(1.4-3.7)
Other	66	3,257	8.4	(6.3-11.1)
Parity				
No previous live birth	46	2,369	6.1	(4.3-8.5)
1	24	1,532	4.8	(3.0-7.5)
2+	16	705	2.5	(1.4-4.3)
Last Year's Household Income				
<\$16,000	22	885	7.4	(4.5-11.8)
\$16,001-\$24,000	12	724	8.5**	(4.6-15.4)
\$24,001-\$40,000	14	739	5.3	(3.0-9.3)
\$40,001-\$60,000	10	441	2.9**	(1.5-5.8)
\$60,001+	18	1,137	3.0	(1.7-5.1)

Table 40. Prevalence of hookah usage in 2 years before survey completion by maternal characteristics,MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	349	24,260	24.3	(21.6-27.3)
Maternal Age				
<20 Years	22	1,307	41.8	(25.1-60.5)
20-29 Years	206	13,926	28.1	(24.1-32.6)
30+ Years	121	9,027	19.2	(15.6-23.3)
Race/Ethnicity				
White, non-Hispanic	144	15,547	23.4	(19.8-27.4)
Black, non-Hispanic	158	5,000	29.8	(25.7-34.3)
Hispanic	23	2,286	36.0	(24.2-49.8)
Asian/Pacific Islander, non-Hispanic			0.0	
Other, non-Hispanic	22	1,099	19.5	(11.4-31.5)
Education				
<high school<="" td=""><td>46</td><td>3,255</td><td>35.0</td><td>(24.7-47.0)</td></high>	46	3,255	35.0	(24.7-47.0)
HS Grad/GED	128	8,780	34.9	(28.8-41.7)
Some College	118	7,867	28.4	(23.2-34.2)
College Degree+	55	4,061	10.9	(8.1-14.6)
Pre-Pregnancy Insurance Status				
Uninsured	124	9,471	15.9	(13.1-19.1)
Medicaid/Public	198	12,925	39.1	(33.5-44.9)
Private	18	1,594	37.5	(22.8-54.8)
Marital Status				
Married	95	8,184	13.6	(10.9-16.8)
Other	249	15,756	40.5	(35.4-45.7)
Parity				. ,
No previous live birth	158	10,589	27.1	(22.9-31.7)
1	92	7,157	21.9	(17.3-27.5)
2+	99	6,514	23.4	(18.3-29.4)
Last Year's Household Income		·		. ,
<\$16,000	92	5,487	45.1	(36.1-54.4)
\$16,001-\$24,000	59	3,433	39.5	(29.7-50.2)
\$24,001-\$40,000	57	3,993	28.0	(20.9-36.3)
\$40,001-\$60,000	36	2,836	18.9	(13.0-26.7)
\$60,001+	67	5,746	15.0	(11.5-19.3)

Table 41. Prevalence of marijuana or hash usage in 12 months before pregnancy by maternalcharacteristics, MI PRAMS, 2021

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	134	9,442	9.5	(7.7-11.8)
Maternal Age				
<20 Years	8	689	22.0**	(9.5-43.1)
20-29 Years	83	5,901	12.0	(9.2-15.6)
30+ Years	43	2,853	6.1	(4.0-9.1)
Race/Ethnicity				
White, non-Hispanic	56	6,572	10.0	(7.5-13.2)
Black, non-Hispanic	63	1,977	11.9	(9.1-15.3)
Hispanic	6	434	6.9**	(2.8-16.1)
Asian/Pacific Islander, non-Hispanic			0.0	
Other, non-Hispanic	8	263	4.6**	(1.9-10.9)
Education				
<high school<="" td=""><td>24</td><td>1,977</td><td>21.3</td><td>(13.1-32.7)</td></high>	24	1,977	21.3	(13.1-32.7)
HS Grad/GED	62	4,184	16.9	(12.3-22.8)
Some College	43	3,024	10.9	(7.5-15.5)
College Degree+			*	
Pregnancy Insurance Status				
Medicaid/Public	25	1,650	2.9	(1.8-4.6)
Private	100	7,096	19.4	(15.2-24.5)
Marital Status				
Married	23	1,881	3.1	(1.9-5.1)
Other	110	7,541	19.5	(15.4-24.2)
Parity				. ,
No previous live birth	47	2,904	7.5	(5.3-10.5)
1	39	3,512	10.8	(7.4-15.6)
2+	48	3,027	11.0	(7.4-15.9)
Last Year's Household Income		-,		(
<\$16,000	54	4,082	33.8	(25.2-43.7)
\$16,001-\$24,000	22	1,130	13.0	(7.2-22.2)
\$24,001-\$40,000	23	1,508	10.7	(6.6-16.9)
\$40,001-\$60,000	8	735	4.9**	(2.2-10.5)
\$60,001+	10	1,038	2.7**	(1.3-5.5)

Table 42. Prevalence of marijuana or hash usage during pregnancy by maternal characteristics,MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	204	13,997	14.0	(11.8-16.6)
Maternal Age				
<20 Years	21	1,280	40.9	(24.1-60.1)
20-29 Years	118	8,437	17.0	(13.6-21.0)
30+ Years	65	4,280	9.1	(6.6-12.4)
Race/Ethnicity				
White, non-Hispanic	80	8,983	13.5	(10.7-17.1)
Black, non-Hispanic	98	2,963	17.6	(14.3-21.4)
Hispanic	12	1,280	20.2	(11.2-33.5)
Asian/Pacific Islander, non-Hispanic			0.0	
Other, non-Hispanic	13	575	10.1**	(4.7-20.2)
Education				
<high school<="" td=""><td>35</td><td>2,806</td><td>30.2</td><td>(20.3-42.4)</td></high>	35	2,806	30.2	(20.3-42.4)
HS Grad/GED	84	5,706	22.7	(17.4-28.9)
Some College	61	3,901	14.0	(10.3-18.9)
College Degree+	23	1,388	3.7	(2.3-6.1)
Post Pregnancy Insurance Status				
Private	48	3,423	6.0	(4.3-8.4)
Medicaid/Public	151	10,216	26.0	(21.5-31.1)
Uninsured			*	
Marital Status				
Married	45	3,626	6.0	(4.3-8.4)
Other	157	10,154	26.0	(21.5-31.1)
Parity				
No previous live birth	82	5,088	13.0	(10.0-16.7)
1	54	4,586	14.1	(10.1-19.2)
2+	68	4,323	15.5	(11.3-20.9)
Last Year's Household Income		,		,,
<\$16,000	58	3,885	32.0	(23.6-41.7)
\$16,001-\$24,000	46	2,130	24.4	(16.9-34.1)
\$24,001-\$40,000	30	2,021	14.1	(9.2-21.1)
\$40,001-\$60,000	16	1,385	9.2	(5.2-15.6)
\$60,001+	26	2,257	5.9	(3.7-9.3)

Table 43. Prevalence of marijuana or hash usage after pregnancy by maternal characteristics,MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	42	2,692	2.7	(1.8-4.0)
Maternal Age				
<20 Years			*	
20-29 Years	21	1,180	2.4	(1.3-4.2)
30+ Years	18	1,444	3.1	(1.8-5.3)
Race/Ethnicity				
White, non-Hispanic	21	1,937	2.9	(1.8-4.8)
Black, non-Hispanic	16	450	2.7	(1.6-4.4)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td>7</td><td>206</td><td>2.2**</td><td>(1.0-4.9)</td></high>	7	206	2.2**	(1.0-4.9)
HS Grad/GED	14	904	3.6**	(1.7-7.2)
Some College	11	732	2.6**	(1.3-5.4)
College Degree+	10	850	2.3**	(1.1-4.5)
Pre-Pregnancy Insurance Status				
Private	20	1,529	2.6	(1.5-4.3)
Medicaid/Public	20	1,037	3.1**	(1.7-5.6)
Uninsured			*	
Marital Status				
Married	13	1,116	1.9**	(1.0-3.4)
Other	28	1,369	3.5	(2.1-5.7)
Parity				
No previous live birth	22	1,340	3.4	(2.0-5.7)
1	11	542	1.7**	(0.8-3.5)
2+	9	811	2.9**	(1.3-6.5)
Last Year's Household Income				. ,
<\$16,000	9	246	2.0**	(1.0-4.0)
\$16,001-\$24,000	8	441	5.1**	(2.2-11.2)
\$24,001-\$40,000			*	
\$40,001-\$60,000	6	517	3.4**	(1.4-8.2)
\$60,001+	7	576	1.5**	(0.6-3.5)

Table 44. Prevalence of opioid pain reliever usage in 12 months before pregnancy by maternalcharacteristics, MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	28	1,531	1.5	(0.9-2.5)
Maternal Age				
<20 Years			*	
20-29 Years	7	195	0.4**	(0.2-0.9)
30+ Years	21	1,337	2.8	(1.6-4.9)
Race/Ethnicity				
White, non-Hispanic	13	1,108	1.7**	(0.9-3.2)
Black, non-Hispanic	13	364	2.2	(1.2-3.8)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td></td><td></td><td>*</td><td></td></high>			*	
HS Grad/GED	8	249	1.0**	(0.5-2.0)
Some College	8	498	1.8**	(0.8-4.2)
College Degree+	7	655	1.8**	(0.7-4.2)
Pregnancy Insurance Status				
Private	12	996	1.7**	(0.9-3.4)
Medicaid/Public	16	535	1.5	(0.8-2.6)
Marital Status				
Married	9	979	1.6**	(0.8-3.3)
Other	18	526	1.4	(0.8-2.2)
Parity				
No previous live birth	9	582	1.5**	(0.7-3.3)
1	8	549	1.7**	(0.7-4.2)
2+	11	401	1.5**	(0.7-2.9)
Last Year's Household Income				
<\$16,000	8	234	1.9**	(0.9-4.0)
\$16,001-\$24,000	7	309	3.6**	(1.6-8.2)
\$24,001-\$40,000			*	
\$40,001-\$60,000			*	
\$60,001+	7	641	1.7**	(0.7-4.0)

Table 45. Prevalence of opioid pain reliever usage during pregnancy by maternal characteristics,MI PRAMS, 2021

*Data not shown due to small sample size and/or relative standard error > 50%. **Relative standard error (RSE) exceeds 30%. Interpret with caution.

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	190	11,906	12.0	(10.1-14.2)
Maternal Age				
<20 Years			*	
20-29 Years	76	4,707	9.6	(7.2-12.5)
30+ Years	108	6,902	14.7	(11.7-18.2)
Race/Ethnicity				
White, non-Hispanic	88	7,879	11.9	(9.4-15.0)
Black, non-Hispanic	74	2,477	14.8	(11.7-18.5)
Hispanic	8	435	6.8**	(2.9-15.3)
Asian/Pacific Islander, non-Hispanic	10	675	17.7**	(8.6-32.9)
Other, non-Hispanic	10	441	7.8**	(3.5-16.7)
Education				
<high school<="" td=""><td>13</td><td>820</td><td>9.4**</td><td>(4.2-19.8)</td></high>	13	820	9.4**	(4.2-19.8)
HS Grad/GED	49	2,808	11.2	(7.8-15.7)
Some College	59	3,533	12.8	(9.3-17.3)
College Degree+	69	4,746	12.7	(9.7-16.5)
Post Pregnancy Insurance Status				
Private	104	7,439	13.1	(10.4-16.2)
Medicaid/Public	82	4,290	11.1	(8.4-14.6)
Uninsured			*	
Marital Status				
Married	103	7,048	11.8	(9.4-14.6)
Other	86	4,652	12.0	(9.1-15.8)
Parity				
No previous live birth	69	4,282	11.0	(8.3-14.5)
1	64	4,181	12.8	(9.4-17.1)
2+	57	3,443	12.5	(9.0-17.2)
Last Year's Household Income				
<\$16,000	27	1,300	10.8	(6.4-17.5)
\$16,001-\$24,000	18	636	7.3	(4.3-12.3)
\$24,001-\$40,000	23	1,287	9.1	(5.4-14.8)
\$40,001-\$60,000	35	2,398	16.0	(10.8-22.9)
\$60,001+	70	5,009	13.0	(9.9-16.9)

Table 46. Prevalence of opioid pain reliever usage after pregnancy by maternal characteristics,MI PRAMS, 2021

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

Method	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Vaginal	872	70,294	69.2	(66.3-72.1)
First C-section	315	18,222	17.9	(15.8-20.4)
Repeat C-Section	163	11,188	11.0	(9.1-13.3)
Vacuum delivery			*	
Forceps delivery	25	2,469	2.4	(1.6-3.7)

Table 47. Distribution of delivery methods, MI PRAMS, 2021

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

Characteristic	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
Total	276	8,429	8.3	(8.1-8.5)
Maternal Age				
<20 Years	8	294	9.3**	(4.4-18.3)
20-29 Years	128	4,078	8.0	(7.0-9.2)
30+ Years	140	4,057	8.5	(7.5-9.7)
Race/Ethnicity				
White, non-Hispanic	159	4,602	6.9	(6.2-7.7)
Black, non-Hispanic	78	2,631	14.9	(12.7-17.6)
Hispanic	13	420	6.6	(3.7-11.5)
Asian/Pacific Islander, non-Hispanic	12	354	8.5**	(4.7-15.2)
Other, non-Hispanic	13	396	6.4	(3.6-11.1)
Education				
<high school<="" td=""><td>23</td><td>859</td><td>9.0</td><td>(5.9-13.5)</td></high>	23	859	9.0	(5.9-13.5)
HS Grad/GED	83	3,112	12.1	(9.9-14.7)
Some College	86	2,271	8.1	(6.7-9.7)
College Degree+	83	2,148	5.7	(4.7-6.8)
Pregnancy Insurance Status				
Medicaid/Public	141	3,976	6.8	(6.0-7.6)
Private	120	4,009	10.7	(9.2-12.4)
Marital Status				
Married	137	3,858	6.3	(5.6-7.1)
Other	136	4,468	11.3	(9.8-12.9)
Parity				
No previous live birth	114	3,485	8.8	(7.5-10.2)
1	74	2,201	6.7	(5.4-8.2)
2+	87	2,717	9.5	(7.8-11.5)
Last Year's Household Income				
<\$16,000	47	1,641	13.4	(10.1-17.7)
\$16,001-\$24,000	31	986	11.3	(7.8-16.0)
\$24,001-\$40,000	42	1,302	9.1	(6.7-12.2)
\$40,001-\$60,000	39	1,154	7.6	(5.6-10.4)
\$60,001+	88	2,321	6.0	(5.0-7.2)

Table 48. Prevalence of low birthweight^ by maternal characteristics,MI PRAMS, 2021

^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.

MI PRAMS, 2021				
Low Birthweight Subcategory	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total Prevalence	276	8,429	100.0	
Very low birthweight	46	1,432	17.0	(13.0-22.0)
Moderately low birthweight	230	6,996	83.0	(78.0-87.0)

Table 49. Distribution of low birthweight subcategories^ among low birthweight infants,MI PRAMS, 2021

^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, 2021

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	275	8,402	8.3	(8.1-8.5)
Smoking status				
Did not smoke in last 3 months of pregnancy	237	7,195	7.8	(7.3-8.2)
Smoked last 3 months of pregnancy	38	1,207	14.0	(9.9-19.6)

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	87	8,613	8.5	(6.7-10.6)
Maternal Age				
<20 Years			*	
20-29 Years	42	4,104	8.1	(5.8-11.2)
30+ Years	44	4,493	9.4	(6.9-12.8)
Race/Ethnicity				
White, non-Hispanic	53	6,605	9.9	(7.6-12.8)
Black, non-Hispanic	23	815	4.6	(2.9-7.2)
Hispanic	6	793	12.5**	(5.3-26.7)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td>7</td><td>857</td><td>9.0**</td><td>(3.9-19.5)</td></high>	7	857	9.0**	(3.9-19.5)
HS Grad/GED	17	1,676	6.5	(3.7-11.1)
Some College	26	2,466	8.8	(5.8-13.2)
College Degree+	37	3,614	9.6	(6.9-13.2)
Pregnancy Insurance Status				
Medicaid/Public	55	5,617	9.6	(7.3-12.5)
Private	29	2,780	7.4	(4.8-11.2)
Marital Status				
Married	56	5,930	9.7	(7.4-12.6)
Other	31	2,683	6.8	(4.4-10.2)
Parity				
No previous live birth	29	2,342	5.9	(3.9-8.8)
1	29	3,177	9.6	(6.6-13.8)
2+	29	3,093	10.8	(7.3-15.8)
Last Year's Household Income				
<\$16,000	10	869	7.1**	(3.4-14.3)
\$16,001-\$24,000	8	586	6.7**	(2.7-15.8)
\$24,001-\$40,000	12	1,374	9.6**	(5.1-17.2)
\$40,001-\$60,000	12	1,448	9.6	(5.3-16.8)
\$60,001+	38	3,894	10.1	(7.3-13.8)

Table 51. Prevalence of high birthweight[^] by maternal characteristics, **MI PRAMS, 2021**

[^]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%.

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	85	8,401	8.5	(6.7-10.6)
Diabetes status				
No diabetes before or during pregnancy	72	6,986	8.4	(6.6-10.7)
Diabetes before pregnancy	6	840	18.9**	(8.5-36.9)
Gestational diabetes	7	574	4.8**	(1.9-11.5)

Table 52. Prevalence of high birthweight^ by diabetes before pregnancy or gestational diabetes,MI PRAMS, 2021

[^]High birthweight infants are defined by the World Health Organization as infants weighing more than 4,000 grams at birth. **Relative standard error (RSE) exceeds 30%. Interpret with caution.

IVII PRAIVIS, 2021				
Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Infant both low birthweight and preterm	183	5,467	5.4	(4.9-5.9)
Infant low birthweight and term	93	2,962	2.9	(2.5-3.4)
Infant not low birthweight, yes preterm	53	4,027	4.0	(2.9-5.5)
Infant not low birthweight, yes term	1,045	89,177	87.7	(86.4-89.0)

Table 53. Distribution of infant birthweights and gestational ages^,MI PRAMS, 2021

^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.

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	236	9,494	9.3	(8.1-10.8)
Maternal Age				
<20 Years	9	458	14.5**	(5.8-31.9)
20-29 Years	112	4,551	8.9	(7.2-11.1)
30+ Years	115	4,484	9.4	(7.5-11.7)
Race/Ethnicity				
White, non-Hispanic	128	5,781	8.7	(6.9-10.8)
Black, non-Hispanic	84	2,897	16.5	(13.5-19.9)
Hispanic	6	187	3.0**	(1.3-6.6)
Asian/Pacific Islander, non-Hispanic	7	283	6.8**	(2.8-15.6)
Other, non-Hispanic	10	318	5.1**	(2.3-11.0)
Education				
<high school<="" td=""><td>18</td><td>846</td><td>8.9**</td><td>(4.8-15.7)</td></high>	18	846	8.9**	(4.8-15.7)
HS Grad/GED	62	2,830	11.0	(8.2-14.6)
Some College	85	3,207	11.4	(8.7-14.9)
College Degree+	70	2,573	6.8	(5.1-9.0)
Pregnancy Insurance Status				
Medicaid/Public	132	5,495	9.4	(7.6-11.6)
Private	95	3,505	9.4	(7.5-11.6)
Marital Status				
Married	126	5,190	8.5	(6.8-10.5)
Other	107	4,032	10.2	(8.2-12.6)
Parity				
No previous live birth	95	3,764	9.5	(7.4-12.0)
1	64	2,690	8.1	(6.0-11.0)
2+	76	3,013	10.5	(8.0-13.8)
Last Year's Household Income				
<\$16,000	39	1,482	12.1	(8.6-16.8)
\$16,001-\$24,000	26	899	10.3	(6.5-16.0)
\$24,001-\$40,000	33	1,068	7.4	(5.1-10.7)
\$40,001-\$60,000	38	1,735	11.5	(7.8-16.7)
\$60,001+	71	2,797	7.2	(5.3-9.7)

Table 54. Prevalence of preterm birth[^] by maternal characteristics, MI PRAMS, 2021

^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.

Breastfeeding duration categories	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Did not Breastfeed	185	11,638	11.6	(9.7-13.9)
Initiated Breastfeeding	1,150	88,644	88.4	(86.1-90.3)
Breastfed at least 4 weeks (i.e. 1 month)	966	76,421	76.3	(73.4-78.9)
Breastfed at least 8 weeks (i.e. 2 months)	838	67,115	67.0	(63.8-70.0)
Breastfed at least 12 weeks (i.e. 3 months)	642	51,706	56.9	(53.5-60.3)

Table 55. Breastfeeding duration categories[^], MI PRAMS, 2021

[^]Counts within these breastfeeding 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.

	MI PRAMS,	2021		
Reasons for not initiating breastfeeding	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Reasons (non-exclusive)				
Mom did not want to breastfeed	81	4,221	36.0	(27.6-45.3)
Mom had other children to take care of	35	2,731	23.3	(15.7-33.0)
Mom did not like breastfeeding	51	2,726	23.2	(16.6-31.5)
Mom tried but it was too hard	33	2,451	20.9	(13.9-30.2)
Mom was sick or on medicine	19	1,311	11.2	(6.3-18.9)
Mom had too many other household				
duties	19	1,274	10.9	(6.0-18.9)
Mom returned to work	23	1,200	10.2	(5.9-17.2)
Baby was in the hospital	6	206	1.8**	(0.8-3.9)
Mom returned to school			*	
Other	27	2,077	17.7	(11.3-26.7)

Table 56. Reasons for not initiating breastfeeding, MI PRAMS, 2021

*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 2021

WIT NAWIS, 2021				
	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
0-1 reason	114	7,603	64.8	(55.3-73.2)
2 reasons	40	2,092	17.8	(11.8-26.0)
3 reasons	25	1,284	10.9	(6.4-18.0)
4+ reasons	9	753	6.4**	(2.8-14.0)

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,150	88,644	88.4	(86.1-90.3)
Maternal Age				
<20 Years	40	2,410	77.3**	(59.2-88.9)
20-29 Years	567	44,042	87.5	(84.2-90.2)
30+ Years	543	42,193	90.1	(86.7-92.7)
Race/Ethnicity				
White, non-Hispanic	576	60,194	90.8	(87.7-93.1)
Black, non-Hispanic	396	12,931	76.2	(71.7-80.1)
Hispanic	59	5,400	86.6**	(72.0-94.2)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td>90</td><td>7,465</td><td>80.1</td><td>(71.0-86.9)</td></high>	90	7,465	80.1	(71.0-86.9)
HS Grad/GED	275	20,030	78.4	(72.6-83.3)
Some College	364	25,216	91.3	(87.1-94.2)
College Degree+	418	35,781	95.8	(92.7-97.6)
Post Pregnancy Insurance Status				
Private	646	54,371	94.7	(92.3-96.3)
Medicaid/Public	465	31,391	80.0	(75.5-83.8)
Uninsured*			*	
Marital Status				
Married	656	57,739	95.1	(93.0-96.6)
Other	489	30,544	78.6	(74.0-82.6)
Parity				
No previous live birth	506	36,667	93.2	(90.7-95.1)
1	345	28,717	87.7	(83.4-91.0)
2+	296	23,064	82.3	(76.7-86.8)
Last Year's Household Income				
<\$16,000	148	9,077	76.1	(67.4-83.0)
\$16,001-\$24,000	121	7,185	83.4	(74.4-89.7)
\$24,001-\$40,000	172	12,696	88.8	(82.1-93.2)
\$40,001-\$60,000	157	13,143	87.7	(80.0-92.7)
\$60,001+	416	36,710	95.5	(92.7-97.2)

Table 58. Prevalence of breastfeeding initiation by maternal characteristics,MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	966	76,421	76.3	(73.4-78.9)
Maternal Age				
<20 Years	26	1,735	55.7	(37.1-72.7)
20-29 Years	461	36,625	72.9	(68.6-76.8)
30+ Years	479	38,062	81.2	(77.2-84.7)
Race/Ethnicity				
White, non-Hispanic	508	52,988	79.9	(76.1-83.2)
Black, non-Hispanic	300	9 <i>,</i> 853	58.3	(53.5-62.9)
Hispanic	51	4,577	73.4	(59.0-84.1)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	63	4,940	82.0	(69.2-90.3)
Education				
<high school<="" td=""><td>68</td><td>5,989</td><td>64.3</td><td>(53.2-74.0)</td></high>	68	5,989	64.3	(53.2-74.0)
HS Grad/GED	216	16,553	65.0	(58.5-71.0)
Some College	296	20,268	73.4	(67.6-78.5)
College Degree+	384	33,558	89.8	(86.2-92.6)
Post Pregnancy Insurance Status				
Private	586	49,820	86.8	(83.6-89.5)
Medicaid/Public	352	24,526	62.5	(57.3-67.4)
Uninsured			*	
Marital Status				
Married	594	52,435	86.4	(83.3-89.1)
Other	367	23,625	60.8	(55.6-65.8)
Parity				
No previous live birth	407	29,737	75.6	(71.2-79.6)
1	310	26,722	81.6	(76.8-85.7)
2+	247	19,835	70.9	(64.7-76.5)
Last Year's Household Income				
<\$16,000	101	6,105	51.2	(41.9-60.3)
\$16,001-\$24,000	93	5,642	65.5	(55.1-74.6)
\$24,001-\$40,000	141	10,967	76.7	(69.0-83.0)
\$40,001-\$60,000	138	11,362	75.8	(67.2-82.8)
\$60,001+	386	34,146	88.8	(84.9-91.7)

Table 59. Prevalence of 1-month breastfeeding duration by maternal characteristics,MI PRAMS, 2021

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

WI F NAWIS, 2021					
Characteristic	Sample	Weighted	Weighted	95% Confidence	
	Frequency	Frequency	Percent	Interval	
Total	838	67,115	67.0	(63.8-70.0)	
Maternal Age					
<20 Years	18	1,410	45.2	(27.6-64.2)	
20-29 Years	389	30,922	61.5	(56.9-66.0)	
30+ Years	431	34,783	74.2	(69.9-78.2)	
Race/Ethnicity					
White, non-Hispanic	449	46,857	70.7	(66.5-74.5)	
Black, non-Hispanic	249	8,147	48.2	(43.4-53.0)	
Hispanic	46	4,120	66.1	(51.7-78.0)	
Asian/Pacific Islander, non-Hispanic	36	3,364	83.8**	(66.3-93.1)	
Other, non-Hispanic	54	4,205	69.8	(55.9-80.9)	
Education					
<high school<="" td=""><td>56</td><td>5,017</td><td>53.8</td><td>(42.3-65.0)</td></high>	56	5,017	53.8	(42.3-65.0)	
HS Grad/GED	183	14,295	56.1	(49.4-62.6)	
Some College	248	16,732	60.6	(54.5-66.4)	
College Degree+	349	31,019	83.0	(78.8-86.6)	
Post Pregnancy Insurance Status					
Private	521	45,009	78.4	(74.7-81.8)	
Medicaid/Public	293	20,336	51.8	(46.5-57.1)	
Uninsured	8	860	54.5**	(25.8-80.5)	
Marital Status					
Married	534	47,715	78.7	(75.1-81.9)	
Other	299	19,039	49.0	(43.7-54.3)	
Parity					
No previous live birth	341	25,817	65.7	(60.9-70.1)	
1	274	23,186	70.8	(65.2-75.9)	
2+	221	17,986	64.3	(57.8-70.3)	
Last Year's Household Income					
<\$16,000	88	5,303	44.4	(35.4-53.8)	
\$16,001-\$24,000	73	4,598	53.4	(42.8-63.7)	
\$24,001-\$40,000	116	9,440	66.0	(57.6-73.5)	
\$40,001-\$60,000	118	9,720	64.9	(56.0-72.9)	
\$60,001+	356	31,590	82.1	(77.6-85.9)	

Table 60. Prevalence of 2-month breastfeeding duration by maternal characteristics,MI PRAMS, 2021

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	642	51,706	56.9	(53.5-60.3)
Maternal Age				
<20 Years	11	849	27.9	(13.8-48.3)
20-29 Years	283	22,933	50.0	(45.1-54.9)
30+ Years	348	27,924	66.6	(61.8-71.2)
Race/Ethnicity				
White, non-Hispanic	359	37,141	61.6	(57.0-65.9)
Black, non-Hispanic	180	6,003	37.7	(33.1-42.6)
Hispanic	32	2,756	50.2	(35.7-64.6)
Asian/Pacific Islander, non-Hispanic	28	2,453	76.3**	(56.5-88.8)
Other, non-Hispanic	40	3,062	58.1	(42.7-72.0)
Education				
<high school<="" td=""><td>35</td><td>2,862</td><td>32.0</td><td>(21.9-44.3)</td></high>	35	2,862	32.0	(21.9-44.3)
HS Grad/GED	132	10,746	45.2	(38.4-52.2)
Some College	187	12,514	50.9	(44.5-57.3)
College Degree+	286	25,532	77.1	(72.2-81.4)
Post Pregnancy Insurance Status				
Uninsured	416	35,917	69.8	(65.5-73.8)
Medicaid/Public	205	14,384	39.7	(34.4-45.3)
Private	7	728	50.4	(22.0-78.6)
Marital Status				
Married	428	37,713	70.3	(66.0-74.2)
Other	211	13,691	37.5	(32.4-43.0)
Parity				
No previous live birth	256	19,571	56.0	(50.8-61.1)
1	217	18,309	61.7	(55.5-67.6)
2+	168	13,726	52.7	(46.0-59.4)
Last Year's Household Income				
<\$16,000	58	3,170	29.4	(21.5-38.7)
\$16,001-\$24,000	52	3,013	40.2	(29.5-51.8)
\$24,001-\$40,000	81	6,468	50.3	(41.2-59.4)
\$40,001-\$60,000	94	8,197	62.1	(52.6-70.7)
\$60,001+	291	26,137	74.1	(68.9-78.7)

Table 61. Prevalence of 3-month breastfeeding duration by maternal characteristics,MI PRAMS, 2021

	Sample	Weighted	Weighted	95% Confidence
Reasons (non-exclusive)	Frequency	Frequency	Percent	Interval
Wasn't Producing Enough Milk	262	19,499	51.7	(46.3-57.0)
Baby Had Difficulty Nursing or Latching	184	13,664	36.2	(31.2-41.5)
Breastmilk Didn't Satisfy Baby	149	11,851	31.4	(26.6-36.6)
Nipples Were Sore, Cracked, or Bleeding	112	7,656	20.3	(16.4-24.9)
Too Many Household Duties	109	7,162	19.0	(15.2-23.4)
Went Back to Work	90	5,416	14.4	(11.1-18.3)
Baby Wasn't Gaining Weight	67	4,973	13.2	(9.9-17.3)
It Was Right Time to Stop	59	3,860	10.2	(7.6-13.7)
I Was Sick	36	2,292	6.1	(4.1-9.0)
Baby Was Jaundiced	28	2,136	5.7	(3.6-8.8)
Went Back to School	14	522	1.4	(0.8-2.5)
Partner Didn't Support			*	
Other	86	5,821	15.4	(12.0-19.6)

Table 62. Reasons for stopping breastfeeding, MI PRAMS, 2021

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

Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval		
1,050	77,345	77.7	(74.8-80.4)		
984	73,319	75.1	(72.1-77.9)		
967	71,284	72.1	(69.0-75.0)		
928	68,388	69.4	(66.3-72.4)		
779	57,777	58.4	(55.1-61.6)		
337	21,013	21.4	(18.9-24.1)		
178	10,779	11.0	(9.2-13.1)		
100	7,384	9.2	(7.3-11.5)		
	Sample Frequency 1,050 984 967 928 779 337 178	Sample FrequencyWeighted Frequency1,05077,34598473,31996771,28492868,38877957,77733721,01317810,779	Sample FrequencyWeighted FrequencyWeighted Percent1,05077,34577.798473,31975.196771,28472.192868,38869.477957,77758.433721,01321.417810,77911.0		

Table 63. Breastfeeding information sources before or after delivery,MI PRAMS, 2021

Table 64. Total number of breastfeeding information sources,MI PRAMS, 2021

Number of sources of breastfeeding	Sample	Weighted	Weighted	95% Confidence
information	Frequency	Frequency	Percent	Interval
0	40	3,358	3.4	(2.3-4.8)
1	75	5,584	5.6	(4.2-7.3)
2	161	13,925	13.9	(11.7-16.4)
3	217	16,093	16.1	(13.8-18.6)
4	288	22,715	22.7	(20.0-25.6)
5	306	23,019	23.0	(20.3-25.9)
6	146	9,248	9.2	(7.6-11.2)
7	91	5,779	5.8	(4.4-7.5)
8	10	461	0.5**	(0.2-1.0)

Breast pump usage	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,027	79,581	90.3	(87.8-92.2)
No	116	8,596	9.7	(7.8-12.2)

Table 65. Did mother ever use a breast pump[^], MI PRAMS, 2021

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

Source of breast pump	Sample	Weighted	Weighted	95% Confidence
source of breast pump	Frequency	Frequency	Percent	Interval
Breast Pump Source (non-exclusive)				
Bought new from store or online	312	26,388	33.1	(29.7-36.7)
Free from hospital	312	20,531	25.7	(22.7-29.0)
Had one from previous child	128	11,413	14.3	(11.9-17.2)
Previously used by someone else	72	5,655	7.1	(5.4-9.3)
New as a gift	63	4,252	5.3	(3.9-7.2)
Bought new from hospital or doctor's office	42	3,508	4.4	(3.1-6.2)
New from WIC	43	2,326	2.9	(2.0-4.2)
Rented from hospital or doctor's office	16	1,001	1.3	(0.7-2.3)
Other	262	21,280	26.7	(23.6-30.1)

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

Characteristic	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
Total	1,027	79,581	90.3	(87.8-92.2)
Maternal Age				
<20 Years			*	<i></i>
20-29 Years	500	38,859	89.0	(85.2-91.9)
30+ Years	493	38,610	91.6	(88.3-94.0)
Race/Ethnicity				
White, non-Hispanic	536	55,504	92.4	(89.3-94.6)
Black, non-Hispanic	341	11,422	89.4	(85.9-92.2)
Hispanic	51	4,631	85.8**	(71.3-93.6)
Asian/Pacific Islander, non-Hispanic	30	2,507	64.6	(47.1-78.9)
Other, non-Hispanic	64	4,898	90.5**	(77.4-96.4)
Education				
<high school<="" td=""><td>71</td><td>5,673</td><td>79.1</td><td>(64.9-88.5)</td></high>	71	5,673	79.1	(64.9-88.5)
HS Grad/GED	237	17,910	90.3	(84.7-94.0)
Some College	326	22,301	88.4	(83.2-92.1)
College Degree+	390	33,543	93.7	(90.7-95.8)
Post Pregnancy Insurance Status				
Private	603	50,787	93.7	(91.0-95.5)
Medicaid/Public	395	26,843	86.5	(81.6-90.3)
Uninsured			*	
Marital Status				
Married	603	52,485	91.2	(88.3-93.5)
Other	419	26,735	88.3	(83.7-91.7)
Parity				
No previous live birth	469	34,519	94.5	(91.6-96.4)
1	306	26,019	90.5	(86.2-93.6)
2+	249	18,847	83.0	(76.4-88.0)
Last Year's Household Income				
<\$16,000	115	7,285	82.9	(73.0-89.7)
\$16,001-\$24,000	102	5,830	81.3	(68.9-89.5)
\$24,001-\$40,000	154	11,232	88.5	(80.0-93.6)
\$40,001-\$60,000	145	11,915	90.7**	(83.2-95.0)
\$60,001+	394	34,971	95.3	(92.4-97.1)

Table 67. Prevalence of ever using a breast pump^ by maternal characteristics,MI PRAMS, 2021

^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, 2021

Health Indicators	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Baby got breast milk from source other than mom	143	10,051	10.3	(8.4-12.5)
Baby has a doctor, nurse, or medical practice where he or she is seen on a regular basis	1,195	91,998	94.4	(92.8-95.7)
Baby will see a dentist by his or her first birthday	929	65,150	67.9	(64.7-71.0)

Table 69. Distribution of WIC status during pregnancy, MI PRAMS 2021

	MI PRAMS, 2021					
WIC Status	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval		
No^	841	67,446	66.9	(63.8-69.9)		
Yes	521	33,308	33.1	(30.1-36.2)		

^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, 2021

Dahu Classe Alama	Sample	Weighted	Weighted	95% Confidence
Baby Sleep - Alone	Frequency	Frequency	Percent	Interval
Always	787	63,846	64.1	(60.9-67.2)
Often/Almost Always	269	18,401	18.5	(16.1-21.1)
Sometimes	130	7,970	8.0	(6.5-9.9)
Rarely	69	4,307	4.3	(3.3-5.7)
Never	66	5,073	5.1	(3.8-6.8)

Table 71. Prevalence of infant sleeping in the same room as mother when sleeping alone in his/her ownown crib or bed^, MI PRAMS, 2021

Baby in Room with Mom	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,058	77,377	82.0	(79.3-84.5)
No	194	16,966	18.0	(15.5-20.7)

^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.

MI PRAMS, 2021								
Baby Sleep Space	Sample	Weighted	Weighted	95% Confidence				
	Frequency	Frequency	Percent	Interval				
Characteristics (non-exclusive)								
Crib/Bassinet/Pack and Play	1,222	91,562	92.1	(90.1-93.8)				
Sleep Sack/Wearable Blanket	578	50,126	51.3	(48.0-54.6)				
Car Seat/Swing	541	42,076	43.1	(39.8-46.4)				
With Blanket	417	30,708	31.4	(28.4-34.6)				
Twin or Larger Mattress/Bed	322	22,146	22.6	(20.0-25.5)				
Couch/Sofa	106	6,471	6.6	(5.2-8.4)				
With Bumper Pads	91	6,336	6.5	(5.0-8.4)				
With Toys, Cushions, Pillows	69	5,013	5.1	(3.8-6.8)				

	Table 73. Prima	ry infant sleep po	sition,	
	MI	PRAMS, 2021		
t Sleep	Sample	Weighted	Weighted	9
	Frequency	Frequency	Percent	

Primary Infant Sleep	Sample	Weighted	Weighted	95% Confidence
Position	Frequency	Frequency	Percent	Interval
Back	1,094	86,102	86.5	(84.3-88.5)
Side	92	6,114	6.1	(4.8-7.9)
Stomach	90	5,176	5.2	(4.0-6.7)
Side/Back	16	769	0.8**	(0.4-1.5)
Back/Stomach	11	522	0.5**	(0.2-1.3)
Side/Stomach			*	
All 3 Positions	14	603	0.6**	(0.3-1.1)
All 3 Positions	14	603	0.6**	(0.3

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

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

•

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	1,056	82,246	82.6	(80.0-84.9)
Maternal Age	_,	,		()
<20 Years	40	2,602	85.7**	(72.8-93.0)
20-29 Years	526	40,778	81.6	(77.8-84.9)
30+ Years	490	38,866	83.4	(79.6-86.6)
Race/Ethnicity		,		, , , , , , , , , , , , , , , , , , ,
White, non-Hispanic	540	57,407	86.9	(83.7-89.6)
Black, non-Hispanic	373	12,182	72.4	(67.9-76.5)
Hispanic	53	5,062	81.7	(68.8-90.1)
Asian/Pacific Islander, non-Hispanic	30	2,675	67.1	(49.4-80.9)
Other, non-Hispanic	55	4,228	72.7	(58.7-83.3)
Education		, -		()
<pre><high pre="" school<=""></high></pre>	101	8,027	89.0	(81.7-93.6)
HS Grad/GED	275	19,600	77.2	(71.1-82.3)
Some College	305	22,063	80.1	(74.9-84.4)
College Degree+	371	32,144	86.4	(82.5-89.6)
Post Pregnancy Insurance Status	-	- ,		()
Private	560	48,923	85.7	(82.6-88.3)
Medicaid/Public	459	30,380	78.2	(73.5-82.2)
Uninsured			*	
Marital Status				
Married	579	50,980	84.6	(81.3-87.4)
Other	471	30,617	79.2	(74.9-83.0)
Parity		, -		()
No previous live birth	434	31,853	81.6	(77.7-85.1)
1	332	28,550	87.3	(83.3-90.4)
2+	287	21,646	78.2	(72.3-83.2)
Last Year's Household Income		,		()
<\$16,000	159	9,604	81.0	(73.0-87.1)
\$16,001-\$24,000	112	6,691	77.7	(68.2-85.0)
\$24,001-\$40,000	145	11,572	81.6	(74.4-87.1)
\$40,001-\$60,000	139	12,514	84.1	(76.9-89.4)
\$60,001+	367	32,684	85.1	(81.0-88.5)

Table 74. Prevalence of infant always or often sleeping alone in his/her own crib or bedin the last two weeks by maternal characteristics, MI PRAMS, 2021

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

Characteristic	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
Total	1,058	77,377	82.0	(79.3-84.5)
Maternal Age				
<20 Years			*	
20-29 Years	543	39,618	84.7	(80.8-87.9)
30+ Years	467	34,908	78.3	(74.0-82.1)
Race/Ethnicity				
White, non-Hispanic	463	49,362	78.8	(75.0-82.1)
Black, non-Hispanic	436	14,243	91.2	(88.1-93.6)
Hispanic	50	4,760	80.2	(66.5-89.2)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	65	4,738	87.6**	(75.1-94.3)
Education				
<high school<="" td=""><td>113</td><td>8,057</td><td>91.1**</td><td>(80.2-96.3)</td></high>	113	8,057	91.1**	(80.2-96.3)
HS Grad/GED	307	20,999	90.6	(85.8-94.0)
Some College	325	21,329	82.8	(77.4-87.2)
College Degree+	309	26,580	73.5	(68.4-78.0)
Post Pregnancy Insurance Status				
Private	501	41,776	76.5	(72.5-80.1)
Medicaid/Public	516	32,269	89.1	(85.0-92.2)
None			*	
Marital Status				
Married	508	44,191	77.0	(73.1-80.5)
Other	542	32,490	89.6	(85.7-92.5)
Parity				
No previous live birth	416	28,020	75.7	(70.9-79.9)
1	326	26,156	84.0	(79.1-87.9)
2+	313	23,005	88.5	(83.3-92.2)
Last Year's Household Income				
<\$16,000	182	10,378	93.6	(87.8-96.7)
\$16,001-\$24,000	125	6,778	85.3	(75.1-91.7)
\$24,001-\$40,000	163	11,807	85.6	(77.9-90.9)
\$40,001-\$60,000	145	12,119	83.9	(75.9-89.6)
\$60,001+	300	26,541	73.0	(67.9-77.5)

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, 2021

^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%.

	Sample	Woightod	Waightad	95% Confidence
Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	Interval
Total	1,222	91,562	92.1	(90.1-93.8)
Maternal Age				
<20 Years			*	
20-29 Years	610	45,435	91.1	(87.9-93.4)
30+ Years	563	43,417	93.5	(90.6-95.5)
Race/Ethnicity				
White, non-Hispanic	574	60,899	92.2	(89.5-94.3)
Black, non-Hispanic	474	15,547	92.7	(89.7-94.9)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	70	5,232	90.0	(77.4-95.9)
Education				
<high school<="" td=""><td>119</td><td>8,463</td><td>93.7**</td><td>(83.8-97.7)</td></high>	119	8,463	93.7**	(83.8-97.7)
HS Grad/GED	336	23,066	91.1	(86.3-94.3)
Some College	355	24,588	89.1	(84.6-92.4)
College Degree+	408	35,033	94.6	(91.7-96.5)
Post Pregnancy Insurance Status				
Private	626	53,107	93.4	(91.0-95.2)
Medicaid/Public	552	35,143	90.4	(86.5-93.2)
Uninsured			*	
Marital Status				
Married	640	55,713	92.7	(90.1-94.7)
Other	576	35,218	91.2	(87.7-93.8)
Parity				
No previous live birth	507	35,757	92.1	(88.9-94.4)
1	374	30,672	93.7	(90.5-95.9)
2+	338	24,938	90.2	(85.2-93.7)
Last Year's Household Income				
<\$16,000	190	10,979	92.9**	(86.5-96.4)
\$16,001-\$24,000	138	8,164	95.0**	(89.6-97.6)
\$24,001-\$40,000	179	13,231	93.0**	(87.5-96.2)
\$40,001-\$60,000	155	13,041	88.2	(80.9-92.9)
\$60,001+	407	35,920	93.6	(90.4-95.8)

Table 76. Prevalence of infant usually sleeping in a crib^ by maternal characteristics,MI PRAMS, 2021

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

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

Characteristic	Sample	Weighted	Weighted	95% Confidenc
	Frequency	Frequency	Percent	Interval
Total	322	22,146	22.6	(20.0-25.5)
Maternal Age				
<20 Years	21	926	31.9	(17.5-50.9)
20-29 Years	171	12,260	24.7	(20.9-29.0)
30+ Years	130	8,960	19.7	(16.2-23.7)
Race/Ethnicity				
White, non-Hispanic	105	12,066	18.6	(15.4-22.3)
Black, non-Hispanic	164	5,355	32.5	(28.2-37.2)
Hispanic	22	2,221	35.9	(23.9-49.9)
Asian/Pacific Islander, non-Hispanic	17	1,719	43.1	(27.8-59.8)
Other, non-Hispanic	12	553	9.8**	(4.5-20.1)
Education				
<high school<="" td=""><td>32</td><td>1,873</td><td>21.1</td><td>(13.2-32.0)</td></high>	32	1,873	21.1	(13.2-32.0)
HS Grad/GED	98	6,868	27.3	(21.7-33.8)
Some College	111	6,947	25.8	(20.9-31.4)
College Degree+	79	6,258	17.1	(13.6-21.3)
Post Pregnancy Insurance Status				
Private	144	10,839	19.3	(16.1-22.9)
Medicaid/Public	162	10,189	26.7	(22.2-31.7)
Uninsured			*	
Marital Status				
Married	121	10,449	17.6	(14.6-21.0)
Other	198	11,363	30.1	(25.5-35.1)
Parity				
No previous live birth	146	9,263	24.3	(20.3-28.8)
1	87	6,221	19.3	(15.2-24.2)
2+	89	6,663	24.4	(19.2-30.6)
Last Year's Household Income		-		
<\$16,000	52	2,794	23.8	(16.9-32.4)
\$16,001-\$24,000	42	2,331	27.3	(18.9-37.5)
\$24,001-\$40,000	50	3,357	24.1	(17.5-32.3)
\$40,001-\$60,000	44	3,326	22.8	(16.3-30.8)
\$60,001+	78	6,663	17.7	(14.0-22.1)

Table 77. Prevalence of infant usually sleeping on an adult-sized mattressby maternal characteristics, MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	106	6,471	6.6	(5.2-8.4)
Maternal Age				
<20 Years			*	
20-29 Years	58	3,809	7.8	(5.7-10.6)
30+ Years	43	2,561	5.6	(3.8-8.1)
Race/Ethnicity				
White, non-Hispanic	36	3,755	5.8	(4.0-8.2)
Black, non-Hispanic	57	1,929	11.7	(8.9-15.2)
Hispanic	6	421	6.8**	(2.5-17.1)
Asian/Pacific Islander, non-Hispanic			0.0	
Other, non-Hispanic	6	340	6.3**	(2.3-16.1)
Education				
<high school<="" td=""><td>9</td><td>749</td><td>8.5**</td><td>(3.5-19.2)</td></high>	9	749	8.5**	(3.5-19.2)
HS Grad/GED	30	1,332	5.3	(3.3-8.6)
Some College	38	2,244	8.3	(5.6-12.2)
College Degree+	29	2,146	5.9	(3.9-8.8)
Post Pregnancy Insurance Status				
Private	61	3,903	6.9	(5.1-9.3)
Medicaid/Public	44	2,542	6.7	(4.5-9.8)
Uninsured*			*	
Marital Status				
Married	48	3,160	5.3	(3.8-7.4)
Other	58	3,311	8.7	(6.2-12.2)
Parity				
No previous live birth	52	2,797	7.3	(5.2-10.2)
1	34	2,364	7.3	(4.9-11.0)
2+	20	1,310	4.8	(2.7-8.4)
Last Year's Household Income				
<\$16,000	16	998	8.5**	(4.4-15.9)
\$16,001-\$24,000	11	522	6.1**	(3.0-11.9)
\$24,001-\$40,000	14	748	5.4**	(2.6-10.9)
\$40,001-\$60,000	19	1,268	8.7	(5.1-14.6)
\$60,001+	30	2,201	5.9	(3.9-8.8)

Table 78. Prevalence of infant usually sleeping on a couch, sofa, or armchairby maternal characteristics, MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	541	42,076	43.1	(39.8-46.4)
Maternal Age				
<20 Years	32	1,981	68.2	(47.9-83.4)
20-29 Years	268	21,190	42.9	(38.2-47.7)
30+ Years	241	18,906	41.7	(37.0-46.5)
Race/Ethnicity				
White, non-Hispanic	269	28,168	43.4	(39.1-47.8)
Black, non-Hispanic	187	6,348	38.6	(33.9-43.4)
Hispanic	24	2,255	36.4	(24.3-50.5)
Asian/Pacific Islander, non-Hispanic	20	2,022	52.0	(35.6-68.0)
Other, non-Hispanic	39	3,051	55.5	(41.2-69.0)
Education				
<high school<="" td=""><td>45</td><td>3,699</td><td>42.1</td><td>(30.7-54.4)</td></high>	45	3,699	42.1	(30.7-54.4)
HS Grad/GED	143	10,227	40.9	(34.4-47.8)
Some College	163	11,624	43.2	(37.1-49.4)
College Degree+	188	16,229	44.4	(39.1-49.7)
Post Pregnancy Insurance Status				
Private	293	24,154	42.9	(38.7-47.3)
Medicaid/Public	232	16,478	43.4	(38.1-48.9)
Uninsured	7	925	57.2**	(28.9-81.5)
Marital Status				
Married	291	25,394	42.9	(38.7-47.2)
Other	244	16,220	42.9	(37.6-48.3)
Parity				
No previous live birth	231	16,276	43.1	(38.1-48.2)
1	177	15,135	46.8	(40.9-52.7)
2+	132	10,565	38.6	(32.3-45.3)
Last Year's Household Income				
<\$16,000	68	4,017	34.7	(26.5-43.9)
\$16,001-\$24,000	53	3,398	39.9	(29.8-50.9)
\$24,001-\$40,000	82	6,532	47.2	(38.4-56.3)
\$40,001-\$60,000	72	6,087	42.5	(33.9-51.6)
\$60,001+	193	16,696	44.1	(38.8-49.5)

Table 79. Prevalence of infant usually sleeping in an infant car seat or swingby maternal characteristics, MI PRAMS, 2021

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	578	50,126	51.3	(48.0-54.6)
Maternal Age				
<20 Years	20	1,180	40.9	(23.6-60.8)
20-29 Years	255	22,588	46.0	(41.3-50.7)
30+ Years	303	26,358	57.8	(53.0-62.4)
Race/Ethnicity				
White, non-Hispanic	376	39,219	60.3	(55.9-64.5)
Black, non-Hispanic	119	3,928	24.0	(20.1-28.4)
Hispanic	23	1,823	29.4	(18.8-43.0)
Asian/Pacific Islander, non-Hispanic	22	1,968	52.4	(35.6-68.6)
Other, non-Hispanic	34	2,597	47.0	(33.3-61.1)
Education				
<high school<="" td=""><td>31</td><td>2,878</td><td>32.7</td><td>(22.1-45.4)</td></high>	31	2,878	32.7	(22.1-45.4)
HS Grad/GED	105	8,378	33.9	(27.8-40.7)
Some College	174	14,217	52.4	(46.3-58.5)
College Degree+	266	24,356	66.5	(61.4-71.3)
Post Pregnancy Insurance Status		·		. ,
Private	384	35,161	62.3	(58.0-66.4)
Medicaid/Public	184	14,256	37.8	(32.6-43.3)
Uninsured		·	*	
Marital Status				
Married	384	35,434	60.1	(55.8-64.2)
Other	190	14,213	37.4	(32.3-42.9)
Parity				, , , , , , , , , , , , , , , , , , ,
No previous live birth	250	20,252	52.7	(47.7-57.6)
1	193	17,820	55.6	(49.6-61.3)
2+	134	11,954	44.4	(37.8-51.1)
Last Year's Household Income	-	,		
<\$16,000	54	4,081	35.7	(26.9-45.6)
\$16,001-\$24,000	44	3,230	37.8	(27.9-48.9)
\$24,001-\$40,000	77	6,706	48.0	(39.1-56.9)
\$40,001-\$60,000	79	6,963	48.9	(40.0-57.8)
		2,200		(

Table 80. Prevalence of infant usually sleeping in a sleep sack or wearable blanketby maternal characteristics, MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	417	30,708	31.4	(28.4-34.6)
Maternal Age				
<20 Years	27	1,417	48.8	(30.0-68.0)
20-29 Years	227	16,914	34.5	(30.1-39.1)
30+ Years	163	12,377	27.1	(23.0-31.6)
Race/Ethnicity				
White, non-Hispanic	153	17,462	26.9	(23.1-31.1)
Black, non-Hispanic	203	6,957	42.2	(37.5-47.1)
Hispanic	22	2,396	38.7	(26.1-53.0)
Asian/Pacific Islander, non-Hispanic	17	1,699	44.9	(28.9-61.9)
Other, non-Hispanic	21	2,092	37.3	(24.6-52.0)
Education				
<high school<="" td=""><td>48</td><td>4,137</td><td>47.1</td><td>(35.3-59.2)</td></high>	48	4,137	47.1	(35.3-59.2)
HS Grad/GED	133	9,007	36.6	(30.2-43.4)
Some College	134	8,923	32.7	(27.3-38.7)
College Degree+	100	8,345	22.8	(18.7-27.5)
Post Pregnancy Insurance Status				
Private	187	14,122	25.2	(21.6-29.1)
Medicaid/Public	211	14,838	39.0	(33.8-44.5)
Uninsured	7	941	58.2**	(29.5-82.2)
Marital Status				
Married	168	14,821	25.0	(21.5-28.9)
Other	244	15,456	40.9	(35.7-46.3)
Parity				
No previous live birth	185	11,454	29.9	(25.6-34.6)
1	118	9,637	30.2	(24.9-36.0)
2+	113	9,547	35.0	(28.9-41.7)
Last Year's Household Income				
<\$16,000	77	5,005	43.1	(33.9-52.8)
\$16,001-\$24,000	54	2,817	32.9	(24.1-43.2)
\$24,001-\$40,000	66	4,543	32.8	(25.2-41.5)
\$40,001-\$60,000	64	5,663	39.2	(30.7-48.4)
\$60,001+	90	7,853	20.7	(16.7-25.4)

Table 81. Prevalence of infant usually sleeping with a blanketby maternal characteristics, MI PRAMS, 2021

Characteristic	Sample	Weighted	Weighted	95% Confidence
Characteristic	Frequency	Frequency	Percent	Interval
Total	69	5,013	5.1	(3.8-6.8)
Maternal Age				
<20 Years			*	
20-29 Years	33	2,659	5.4	(3.5-8.1)
30+ Years	29	2,041	4.5	(2.9-6.8)
Race/Ethnicity				
White, non-Hispanic	24	2,850	4.4	(2.9-6.7)
Black, non-Hispanic	34	1,137	6.9	(4.8-9.8)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td>7</td><td>561</td><td>6.4**</td><td>(2.5-15.1)</td></high>	7	561	6.4**	(2.5-15.1)
HS Grad/GED	22	1,294	5.2**	(2.8-9.3)
Some College	20	1,506	5.6	(3.4-9.1)
College Degree+	20	1,652	4.5	(2.7-7.4)
Post Pregnancy Insurance Status				
Private	36	2,841	5.1	(3.5-7.3)
Medicaid/Public	29	1,660	4.4	(2.6-7.2)
Uninsured			*	
Marital Status				
Married	30	2,537	4.3	(2.9-6.4)
Other	38	2,455	6.4	(4.2-9.7)
Parity				
No previous live birth	28	1,959	5.1	(3.2-8.0)
1	25	1,585	4.9	(3.1-7.7)
2+	16	1,469	5.4	(2.9-9.8)
Last Year's Household Income				
<\$16,000	13	525	4.5**	(2.3-8.6)
\$16,001-\$24,000	9	513	6.0**	(2.6-13.0)
\$24,001-\$40,000	8	735	5.3**	(2.3-11.6)
\$40,001-\$60,000	9	705	4.9**	(2.2-10.7)
\$60,001+	20	1,826	4.9	(3.0-7.8)

Table 82. Prevalence of infant usually sleeping with toys, cushions, or pillowsby maternal characteristics, MI PRAMS, 2021

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

Characteristic	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Total	91	6,336	6.5	(5.0-8.4)
Maternal Age				
<20 Years			*	
20-29 Years	54	3,969	8.1	(5.8-11.2)
30+ Years	33	2,255	5.0	(3.3-7.4)
Race/Ethnicity				
White, non-Hispanic	32	3,482	5.4	(3.7-7.7)
Black, non-Hispanic	47	1,416	8.7	(6.4-11.7)
Hispanic			*	
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic			*	
Education				
<high school<="" td=""><td>15</td><td>993</td><td>11.5**</td><td>(5.8-21.6)</td></high>	15	993	11.5**	(5.8-21.6)
HS Grad/GED	31	1,952	7.8	(4.9-12.3)
Some College	26	1,839	6.8	(4.3-10.6)
College Degree+	19	1,552	4.3	(2.5-7.1)
Post Pregnancy Insurance Status				
Private	39	3,002	5.4	(3.7-7.7)
Medicaid/Public	48	2,994	7.9	(5.4-11.5)
Uninsured			*	
Marital Status				
Married	40	3,770	6.4	(4.5-9.0)
Other	50	2,528	6.7	(4.5-9.7)
Parity				
No previous live birth	37	2,605	6.8	(4.7-9.8)
1	30	1,955	6.1	(3.9-9.5)
2+	24	1,776	6.6	(3.9-11.1)
Last Year's Household Income				
<\$16,000	13	524	4.5**	(1.9-10.2)
\$16,001-\$24,000	11	423	4.9**	(2.5-9.7)
\$24,001-\$40,000	21	1,704	12.2	(7.3-19.6)
\$40,001-\$60,000	12	1,045	7.3**	(3.6-14.2)
\$60,001+	21	1,667	4.4	(2.8-7.1)

Table 83. Prevalence of infant usually sleeping with crib bumper pads (mesh or non-mesh)by maternal characteristics, MI PRAMS, 2021

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

_	Sample	Weighted	Weighted	95% Confidence
Characteristic	Frequency	Frequency	Percent	Interval
Total	1,094	86,102	86.5	(84.3-88.5)
Maternal Age				
<20 Years	31	2,288	76.2	(60.9-86.8)
20-29 Years	537	41,550	83.4	(79.8-86.5)
30+ Years	526	42,265	90.4	(87.6-92.7)
Race/Ethnicity				
White, non-Hispanic	572	60,277	91.3	(88.6-93.5)
Black, non-Hispanic	365	12,068	71.5	(67.0-75.6)
Hispanic	50	4,516	72.9	(58.2-83.9)
Asian/Pacific Islander, non-Hispanic			*	
Other, non-Hispanic	65	5,051	87.4**	(76.2-93.7)
Education				
<high school<="" td=""><td>92</td><td>6,871</td><td>76.0</td><td>(65.1-84.4)</td></high>	92	6,871	76.0	(65.1-84.4)
HS Grad/GED	279	21,010	82.7	(77.7-86.8)
Some College	330	23,656	86.4	(81.9-89.9)
College Degree+	390	34,253	91.8	(88.6-94.2)
Post Pregnancy Insurance Status				, , , , , , , , , , , , , , , , , , ,
Private	595	52,070	91.4	(88.9-93.3)
Medicaid/Public	462	31,377	80.6	(76.3-84.3)
Uninsured	10	1,008	62.3**	(32.7-84.9)
Marital Status		_,		(
Married	606	53,906	89.2	(86.3-91.5)
Other	482	31,627	82.3	(78.4-85.7)
Parity		0_)0_/	01.0	(, ,
No previous live birth	438	33,079	84.6	(81.1-87.6)
1	341	28,673	88.2	(84.1-91.3)
2+	313	24,223	87.3	(82.4-91.0)
Last Year's Household Income	010	,	0710	(0211 0210)
<\$16,000	157	8,981	76.0	(67.2-83.0)
\$16,001-\$24,000	114	7,187	83.5	(75.7-89.1)
\$24,001-\$40,000	153	11,719	82.4	(74.8-88.0)
\$40,001-\$60,000	146	12,780	86.8	(80.1-91.5)
\$60,001+	399	35,992	93.7	(90.9-95.7)

Table 84. Prevalence of infant usually sleeping on his or her back^ by maternal characteristics,MI PRAMS, 2021

^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%.

Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
387	27,557	27.3	(24.5-30.3)
359	26,152	26.0	(23.2-29.0)
327	22,341	22.2	(19.6-25.0)
330	21,769	21.7	(19.2-24.5)
292	17,950	17.9	(15.6-20.4)
224	14,065	14.0	(11.9-16.4)
213	13,379	13.3	(11.2-15.6)
181	11,516	11.4	(9.5-13.7)
144	10,595	10.6	(8.7-12.8)
161	9,923	9.9	(8.1-11.9)
90	5,890	5.8	(4.5-7.6)
89	5,223	5.2	(4.0-6.8)
40	2,355	2.3	(1.6-3.5)
40	2,141	2.1	(1.4-3.2)
27	1,708	1.7	(1.1-2.7)
	Sample Frequency 387 359 327 330 292 224 213 181 144 161 90 89 40 40	Sample Frequency Weighted Frequency 387 27,557 359 26,152 327 22,341 330 21,769 292 17,950 224 14,065 131 13,379 181 11,516 144 90,923 161 9,923 90 5,890 89 5,223 40 2,355 40 2,141	Sample FrequencyWeighted FrequencyWeighted Percent38727,55727.335926,15226.032722,34122.233021,76921.729217,95017.922414,06514.021313,37913.318111,51611.41619,9239.9905,8905.8895,2235.2402,3552.3402,1412.1

Table 85. Prevalence of life stressors experienced by mothers in 12 months before delivery,MI PRAMS, 2021

	IVII PRAIVIS, 2021			
	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
0	373	30,452	30.1	(27.2-33.2)
1	268	21,360	21.1	(18.6-23.9)
2	254	19,480	19.3	(16.8-22.0)
3	178	12,428	12.3	(10.3-14.6)
4	97	6,040	6.0	(4.7-7.6)
5	86	5,227	5.2	(3.9-6.8)
6	43	2,030	2.0	(1.3-3.0)
7	28	2,022	2.0	(1.2-3.3)
8+	36	2,057	2.9	(1.9-4.4)

Table 86. Cumulative number of life stressors experienced by mothers in 12 months before delivery,MI PRAMS, 2021

Table 87. Prevalence of unmet basic needs during pregnancy,MI PRAMS, 2021

Unmet basic need	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (non-exclusive)				
House or apartment was too crowded	93	5,821	5.9	(4.5-7.6)
Did not have affordable, reliable transportation	83	5,171	5.2	(3.9-6.8)
Could not keep basic utility services on (heat, water, light)	74	4,082	4.1	(3.0-5.6)
Did not have consistent housing	55	3,641	3.7	(2.6-5.1)
Skipped meals or ate less because there wasn't enough money for food	56	3,522	3.5	(2.5-4.9)
Did not have safe housing	50	2,595	2.6	(1.8-3.7)
Could not access a telephone when needed	28	1,906	1.9	(1.2-3.0)
Other unmet needs	54	2,964	3.3	(2.3-4.7)

Table 88. Cumulative number of unmet basic needs during pregnancy,MI PRAMS, 2021

	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
None	1,044	81,465	81.4	(78.8-83.8)
1	199	12,195	12.2	(10.2-14.5)
2	66	3,679	3.7	(2.7-5.0)
3	21	1,483	1.5	(0.9-2.6)
4+	22	1,219	1.2	(0.7-2.1)
				-

Table 89. Prevalence of any physical violence 12 months before or during pregnancy,MI PRAMS, 2021

Time period of abuse	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Abuse either 12 months before conception or during pregnancy	78	4,827	4.8	(3.6-6.4)
Abuse 12 months before conception	62	3,686	3.6	(2.6-5.1)
Abuse during pregnancy	48	3,015	3.0	(2.0-4.3)

Table 90. Perpetrator of abuse 12 months before conception,MI PRAMS, 2021

Person who abused mother	Sample	Weighted	Weighted Percent	95% Confidence Interval
Husband/partner	Frequency 28	Frequency 1,443	1.4	(0.9-2.4)
Ex-husband/partner	28	1,387	1.4**	(0.8-2.3)
Another family member	11	682	0.7**	(0.3-1.6)
Someone else	8	514	0.5**	(0.2-1.3)

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

Table 91. Perpetrator of abuse during pregnancy,MI PRAMS, 2021

Derson who shuged methor	Sample	Weighted	Weighted	95% Confidence
Person who abused mother	Frequency	Frequency	Percent	Interval
Husband/partner	24	1,377	1.4	(0.8-2.3)
Ex-husband/partner	12	521	0.5**	(0.3-1.0)
Another family member	13	859	0.9**	(0.4-1.9)
Someone else	7	602	0.6**	(0.2-1.6)

Table 92. Prevalence of maternal adverse childhood experiences,MI PRAMS, 2021

Adverse Childhood Experience	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
ypes (non-exclusive)				
A parent or guardian I lived with got divorced or separated	479	35,699	35.9	(32.8-39.1)
A parent or guardian I lived with had a serious drinking or drug problem	237	18,219	18.5	(16.0-21.2)
We had to move because of trouble paying the rent or mortgage	222	15,015	15.2	(12.9-17.7)
A parent or guardian got in trouble with the law or went to jail	219	14,839	15.0	(12.8-17.6)
Most of the time, I did not have an adult who believed in me and who I could count on to help me	131	8,467	8.5	(6.9-10.5)
Someone in my family or I went hungry because we could not afford enough food	108	7,284	7.3	(5.8-9.2)
I was in foster care (removed from home by court or child welfare)	81	5,309	5.4	(4.0-7.1)

Table 93. Cumulative number of maternal adverse childhood experiences,MI PRAMS, 2021

	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
None	628	50,698	50.8	(47.5-54.1)
1	337	21,685	21.7	(19.2-24.5)
2	171	12,629	12.7	(10.6-15.0)
3	95	6,724	6.7	(5.2-8.6)
4+	110	8,067	8.1	(6.4-10.2)

Table 94. From childhood through age 13 how often did mother's family have difficulty payingfor basic needs like food and housing, MI PRAMS, 2021

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Very often	69	4,616	4.6	(3.4-6.2)
Somewhat often	160	12,192	12.3	(10.2-14.7)
Not very often	368	27,460	27.6	(24.7-30.7)
Never	735	55,169	55.5	(52.2-58.7)

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

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

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	1,221	91,571	91.3	(89.3-93.0)
It is not hard for me to snap back when something bad happens	1,154	85,450	85.3	(82.8-87.5)
I do not have a hard time making it through stressful events	1,139	85,232	85.2	(82.7-87.4)
I tend to bounce back quickly after hard times	940	66,419	66.4	(63.2-69.5)
It does not take me long to recover from a stressful event	683	51,777	51.8	(48.5-55.1)
I usually come through a difficult time with little trouble	661	49,561	49.5	(46.2-52.8)

Table 95. Positive responses to stressful events, MI PRAMS, 2021

Table 96. Cumulative number of positive responses to stressful life events,MI PRAMS, 2021

Number of positive responses to stressful situations	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-3	279	20,991	20.9	(18.3-23.7)
4	451	34,454	34.3	(31.2-37.5)
5	266	18,583	18.5	(16.1-21.1)
6	356	26,417	26.3	(23.5-29.3)

Table 97. Post-partum checkup for mother, MI PRAMS, 2021

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Yes	1,172	87,683	87.5	(85.0-89.6)
No	181	12,579	12.5	(10.4-15.0)

Table 98. Prevalence of health care provider discussions and actions taken during postpartum checkup,MI PRAMS, 2021

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval		
Discussion or Action (non-exclusive)						
Ask if feeling down or depressed	1,070	80,059	91.9	(89.7-93.6)		
Discuss birth control methods	1,016	75,897	87.0	(84.4-89.3)		
Ask if taking other prescriptions medications	849	62,417	71.8	(68.6-74.9)		
Ask about current emotional or physical abuse	836	59,679	68.7	(65.3-71.8)		
Ask if smoking cigarettes	749	54,082	62.4	(58.9-65.7)		
Discuss healthy eating, exercise and losing pregnancy weight gain	641	45,770	52.4	(48.9-55.9)		
Ask if drinking alcohol	665	45,398	52.3	(48.8-55.8)		
Discuss how long to wait to get pregnant again	640	45,265	52.0	(48.5-55.5)		
Advise to take folic acid	527	40,042	46.1	(42.6-49.6)		
Give or prescribe hormonal or barrier contraceptives	430	29,190	33.6	(30.4-36.9)		
Ask if taking prescription opioids	421	26,795	30.9	(27.9-34.2)		
Test for diabetes	272	16,829	19.5	(17.0-22.3)		
Insert an IUD	179	12,821	14.8	(12.5-17.5)		

Experience	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval	
Since new baby was born, proportion of					
mothers reporting					
Feeling down, depressed, or hopeless					
Never	423	30,644	30.6	(27.7-33.7)	
Rarely	442	34,628	34.6	(31.5-37.8)	
Sometimes	335	24,698	24.7	(21.9-27.6)	
Often	121	8,564	8.6	(6.9-10.6)	
Always	27	1,608	1.6	(1.0-2.6)	
Having little or no pleasure in doing things					
Never	490	36,661	36.7	(33.6-39.9)	
Rarely	368	29,775	29.8	(26.9-32.9)	
Sometimes	307	21,472	21.5	(18.9-24.3)	
Often	133	8,917	8.9	(7.3-10.9)	
Always	48	3,137	3.1	(2.2-4.5)	
Mothers reporting significant post-partum depression^	244	16,446	16.5	(14.2-19.0)	

Table 99. Post-partum depression symptoms, MI PRAMS, 2021

^AThis 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.

Maternal Immunization	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Flu Shot				
No	718	47,718	47.5	(44.3-50.8)
Yes, before pregnancy	171	13,994	13.9	(11.8-16.4)
Yes, during pregnancy	464	38,667	38.5	(35.4-41.8)
Tdap				
No	408	26,624	26.3	(23.5-29.2)
Yes	888	70,024	69.1	(66.1-72.0)
I don't know	69	4,685	4.6	(3.5-6.2)

Table 100. Maternal immunization before and during pregnancy,MI PRAMS, 2021

Table 101. Plans for future infant immunization,MI PRAMS, 2021

Immunization Plans	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
As doctor recommends	986	78,220	80.2	(77.5-82.6)
All vaccines but on a different schedule	78	5,778	5.9	(4.5-7.7)
Only some vaccines	159	9,585	9.8	(8.1-11.9)
No vaccines planned	72	3,972	4.1	(3.0-5.4)

MI PRAMS, 2021					
Quantity (hours)	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval	
0-3	104	5,892	6.0	(4.7-7.6)	
4-6	738	55,124	55.9	(52.6-59.2)	
7-8	424	34,504	35.0	(31.9-38.2)	
9+	38	3,101	3.1	(2.1-4.6)	

Table 102. Average amount of maternal sleep each night in the last week,MI PRAMS, 2021

Table 103. Average number of times mother awoke each night in the last week,MI PRAMS, 2021

Number of awakenings	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-1	261	23,120	23.8	(21.0-26.8)
2	421	32,648	33.6	(30.5-36.8)
3	333	23,311	24.0	(21.2-26.9)
4+	275	18,211	18.7	(16.3-21.4)

Living arrangement	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Types (exclusive)				
Partner lives with me all the time	1,032	84,517	85.0	(82.8-87.0)
Partner lives with me some of the time	61	3,572	3.6	(2.6-5.0)
Partner does not live with me	110	5,297	5.3	(4.1-6.8)
I do not have a husband or partner	131	6,046	6.1	(4.8-7.6)

Table 104. Partner living arrangement with mother,MI PRAMS, 2021

Table 105. Ways that husband or partner supports mother, MI PRAMS, 2021

Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
1,146	89,677	96.7	(95.2-97.8)
1,119	88,054	95.3	(93.8-96.5)
1,115	88,207	95.2	(93.5-96.4)
1,111	87,906	94.4	(92.7-95.8)
1,113	87,592	94.4	(92.7-95.8)
1,107	88,128	94.1	(92.5-95.4)
1,100	87,000	94.1	(92.3-95.5)
1,023	80,953	87.5	(85.1-89.6)
	Frequency 1,146 1,119 1,115 1,111 1,113 1,107 1,100	FrequencyFrequency1,14689,6771,11988,0541,11588,2071,11187,9061,11387,5921,10788,1281,10087,000	FrequencyFrequencyPercent1,14689,67796.71,11988,05495.31,11588,20795.21,11187,90694.41,11387,59294.41,10788,12894.11,10087,00094.1

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, 2021

	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
0-2	57	3,048	3.3	(2.3-4.7)
3-5	64	4,662	5.0	(3.7-6.7)
6-7	138	10,240	10.9	(9.0-13.3)
8	949	75,684	80.8	(78.0-83.4)

Infant caretakers	Sample Frequency	Weighted Frequency	Weighted Percent	95% Confidence Interval
Caretakers (non-exclusive)				
Husband/Partner	971	74,985	75.3	(72.3-78.1)
Baby's grandparent	853	64,758	65.0	(61.8-68.1)
Other close family member/relative	438	30,253	30.4	(27.5-33.5)
Babysitter, nanny, or other childcare provider	130	11,129	11.2	(9.2-13.5)
Friend or neighbor	115	8,692	8.7	(7.0-10.8)
Staff at day care center	88	7,397	7.4	(5.9-9.4)
Other	31	2,952	3.0	(1.9-4.5)
Baby always with mom	191	13,767	13.8	(11.7-16.3)

Table 107. People available to help watch baby, MI PRAMS, 2021

Table 108. Cumulative number of infant caretakers, MI PRAMS, 2021

	Sample	Weighted	Weighted	95% Confidence
	Frequency	Frequency	Percent	Interval
None	85	6,801	6.8	(5.3-8.8)
1	376	26,165	26.3	(23.5-29.3)
2	459	35,791	35.9	(32.8-39.2)
3	305	22,992	23.1	(20.4-26.0)
4+	98	7,819	7.9	(6.2-9.8)

APPENDIX

Comparison of MI PRAMS 2021 Data Tables to MI PRAMS 2015 Data Tables

MI PRAMS 2021 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	
**New topic on Phase 8 survey	
Table 9**. Type of healthcare visits among women in the 12 months before pregnancy	
**New topic on Phase 8 survey	
Table 10**. Type of counseling/screening among women reporting any healthcare visits in the 12 months before pregnancy	
**New topic on Phase 8 survey	
Table 11. [^] Frequency of taking a folate-containing vitamin in the month before pregnancy	
^ Topic available but not reported in Phase 7 tables	
Table 12.^ Prevalence of no folic acid containing vitamin consumption in the month before pregnancy by maternal characteristics	
^ Topic available but not reported in Phase 7 tables	
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 2021 Table	MI PRAMS 2015 Table
Table 16.^^ Distribution of contraceptive behaviors at the time of conception	
^^ Topic available in Phase 6 Survey	
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	
^^Topic available in Phase 6 Survey	
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	
^ Topic available but not reported in Phase 7 tables	
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	
^ Topic available but not reported in Phase 7 tables	
Table 31.^^ Barriers to starting prenatal care as early as wanted among women who began prenatal care during the first trimester	
^^Topic available in Phase 6 survey	
Table 32.^^ Barriers to starting prenatal care as early as wanted among women who began prenatal care after the first trimester	
^^Topic available in Phase 6 survey	
Table 33**. Prevalence of topics discussed by health care provider during prenatal care visits	
**New topic on Phase 8 survey	

MI PRAMS 2021 Table	MI PRAMS 2015 Table
Table 34**. Prevalence of Pregnancy Complications	
**New topic on Phase 8 survey	
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	
^ Topic available but not reported in Phase 7 tables	
Table 38**. Prevalence of electronic cigarette usage during the3 months before pregnancy by maternal characteristics**New topic on Phase 8 survey	
Table 39**. Prevalence of electronic cigarette usage during the last 3 months of pregnancy	
**New topic on Phase 8 survey	
Table 40**. Prevalence of hookah usage in 2 years before survey completion by maternal characteristics	
**New topic on Phase 8 survey	
Table 41**. Prevalence of marijuana or hash usage in 12 months before pregnancy by maternal characteristics	
**New topic on Phase 8 survey	
Table 42**. Prevalence of marijuana or hash usage during pregnancy by maternal characteristics	
**New topic on Phase 8 survey	
Table 43**. Prevalence of marijuana or hash usage after pregnancy by maternal characteristics	
**New topic on Phase 8 survey	
Table 44**. Prevalence of opioid pain reliever usage in 12 months before pregnancy by maternal characteristics	
**New topic on Phase 8 survey	
Table 45**. Prevalence of opioid pain reliever usage during pregnancy by maternal characteristics	
**New topic on Phase 8 survey	
Table 46**. Prevalence of opioid pain reliever usage after pregnancy by maternal characteristics	
**New topic on Phase 8 survey	
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 2021 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	Table 36. Prevalence of high birthweight by maternal characteristics
^Topic available, but not reported in Phase 7 tables	
Table 52 [^] . Prevalence of high birthweight by diabetes before pregnancy or gestational diabetes	
^Topic available, but not reported in Phase 7 tables	
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	
^Topic available, but not reported in Phase 7 tables	
Table 56**. Reasons for not initiating breastfeeding	
**New topic on Phase 8 survey	
Table 57**. Cumulative number of reasons for not initiating breastfeeding	
**New topic on Phase 8 survey	
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	
^Topic available, but not reported in Phase 7 tables	
Table 60.^ Prevalence of 2-month breastfeeding duration by maternal characteristics	
^Topic available, but not reported in Phase 7 tables	
Table 61 [^] . Prevalence of 3-month breastfeeding duration by maternal characteristics	
^Topic available, but not reported in Phase 7 tables	
Table 62*. Reasons for stopping breastfeeding	Table 43. Reasons for stopping breastfeeding
*Direct comparison not possible between survey phases	
Table 63**. Breastfeeding information sources before or after delivery	
**New topic on Phase 8 survey	
Table 64**. Total number of breastfeeding information sources	
**New topic on Phase 8 survey	

MI PRAMS 2021 Table	MI PRAMS 2015 Table
Table 65**. Did mother ever use a breast pump	
**New topic on Phase 8 survey	
Table 66**. Source of breast pump	
**New topic on Phase 8 survey	
Table 67**. Prevalence of ever using a breast pump by maternal	
characteristics	
**New topic on Phase 8 survey	
Table 68**. Baby health indicators	
**New topic on phase 8 survey	
Table 69. Distribution of WIC status during pregnancy,	Table 44. Distribution of WIC status during pregnancy
Table 70**. How often infant slept alone in his/her own bed	
over last two weeks	
**New topic on Phase 8 survey	
Table 71**. Infant slept in his/her own crib or bed in mother's room	
**New topic on Phase 8 survey	
Table 72*^. Infant sleep space characteristics	
*Direct comparison not possible between survey phases	
^Topic available, but not reported in Phase 7 tables	
Table 73. Primary infant sleep position	Table 45. Primary infant sleep position
Table 74*. Prevalence of infant always or often sleeping alone in his/her own crib or bed in the last two weeks by maternal characteristics *Direct comparison not possible between survey phases	Table 52. Prevalence of infant usually sleeping with mother or another person by maternal characteristics
Table 75**. Prevalence of infant sleeping alone in his/her own crib or bed in the same room as mother by maternal characteristics	
**New topic on Phase 8 survey	
Table 76.* Prevalence of infant usually sleeping in a crib by maternal characteristics	Table 48. Prevalence of infant usually sleeping on a crib by
*Direct comparison not possible between survey phases	maternal characteristics
Table 77.* Prevalence of infant usually sleeping on an adult-sized mattress by maternal characteristics*Direct comparison not possible between survey phases	Table 49. Prevalence of infant usually sleeping on a firm mattress by maternal characteristics
Table 78**. Prevalence of infant usually sleeping on a couch, sofa, or armchair by maternal characteristics **New topic on Phase 8 survey	
Table 79**. Prevalence of infant usually sleeping in an infant car seat or swing by maternal characteristics **New topic on Phase 8 survey	
Table 80**. Prevalence of infant usually sleeping in a sleep sack or wearable blanket by maternal characteristics	

MI PRAMS 2021 Table	MI PRAMS 2015 Table
**New topic on Phase 8 survey	
Table 81.* Prevalence of infant usually sleeping with a blanketby maternal characteristics*Direct comparison not possible between survey phases	Table 51. Prevalence of infant usually sleeping with blankets by maternal characteristics
Table 82*^. Prevalence of infant usually sleeping with toys, cushions, or pillows by maternal characteristics	
*Direct comparison not possible between survey phases ^Topic available, but not reported in Phase 7 tables	
Table 83.* Prevalence of infant usually sleeping with cribbumper pads (mesh or non-mesh) by maternal characteristics*Direct comparison not possible between survey phases	Table 50. Prevalence of infant sleeping with bumper pads by maternal characteristics
Table 84. Prevalence of infant usually sleeping on his or her back by maternal characteristics	Table 46. Prevalence of infant back sleeping position by maternal characteristics
Table 85. Prevalence of life stressors experienced by mothers in 12 months before delivery	Table 53. Prevalence of life stressors experienced by mothers
Table 86. Cumulative number of life stressors experienced by mothers in 12 months before delivery	Table 54. Number of life stressors experienced by mothers
Table 87**. Prevalence of unmet basic needs during pregnancy **New topic on phase 8 survey	
Table 88**. Cumulative number of unmet basic needs during pregnancy **New topic on phase 8 survey	
Table 89*. Prevalence of any physical violence 12 monthsbefore or during pregnancy*Direct comparison not possible between survey phases	Table 55. Prevalence of intimate partner violence by time period
Table 90. Perpetrator of abuse 12 months before conception	
Table 91. Perpetrator of abuse during pregnancy	
Table 92**. Prevalence of maternal adverse childhood experiences	
**New topic on phase 8 survey	
Table 93**. Cumulative number of maternal adverse childhood experiences	
**New topic on phase 8 survey	
Table 94**. From childhood through age 13 how often did mother's family have difficulty paying for basic needs like food and housing	
**New topic on phase 8 survey	
Table 95**. Positive responses to stressful events	

MI PRAMS 2021 Table	MI PRAMS 2015 Table
**New topic on phase 8 survey	
Table 96**. Cumulative number of positive responses to stressful life events	
**New topic on phase 8 survey	
Table 97. Post-partum checkup for mother	Table 60. Post-partum checkup for mother
Table 98**. Prevalence of health care provider discussions and actions taken during postpartum checkup	
**New topic on phase 8 survey	
Table 99. Post-partum depression symptoms	Table 61. Post-partum depression symptoms
Table 100^. Maternal immunization before and during pregnancy	
^Topic available, but not reported in Phase 7 tables (flu only)	
Table 101**. Plans for future infant immunization	
**New topic on survey Phase 8	
Table 102**. Average amount of maternal sleep each night in the last week	
**New topic on survey Phase 8	
Table 103**. Average number of times mother awoke each night in the last week	
**New topic on survey Phase 8	
Table 104**. Partner living arrangement with mother **New topic on survey Phase 8	
Table 105**. Ways that husband or partner supports mother **New topic on survey Phase 8	
Table 106**. Cumulative number of ways that husband or partner supports mother	
**New topic on survey Phase 8	
Table 107**. People available to help watch baby **New topic on survey Phase 8	
Table 108**. Cumulative number of infant caretakers	
**New topic on survey Phase 8	

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 <u>www.michigan.gov/prams</u>.

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