

Michigan PRAMS Indicator Tables 2013 Birth Year

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Introduction to the 2013 MI PRAMS Annual Tables

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

MI PRAMS utilizes a mixed-mode methodology in order to gather information from women selected to participate in the survey. This combination mail/telephone survey methodology is used in order to maximize response rates. Data collection for the 2013 birth year was conducted by the Michigan State University Office for Survey Research.

MI PRAMS surveys approximately 1-2% 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 2013, the sample was selected from within the following strata:

Stratum 1: Black mothers, Calhoun County

Stratum 2: Black mothers, Kent County

Stratum 3: Black mothers, low birthweight infants, Wayne County

Stratum 4: Black mothers, normal birthweight infants, Wayne County

Stratum 5: Low birthweight infants, entire state

Stratum 6: Black mothers, normal birthweight infants, southeast Michigan [St. Clair, Macomb, Oakland, Livingston, Washtenaw, Wayne, and Monroe Counties]

Stratum 7: All other mothers, normal birthweight infants, southeast Michigan

Stratum 8: Black mothers, normal birthweight infants, all non-southeast counties

Stratum 9: All other mothers, normal birthweight infants, all non-southeast counties

In 2013, 3,964 women were selected for PRAMS and 2,025 completed the survey, for an unweighted response rate of 51%. Adjusting for differing probabilities of selection within each stratum, the weighted response rate is 60%. Survey results from these 2,025 respondents are weighted to represent approximately 110,331 pregnancies resulting in live births in 2013.

The 2013 birth year is the second year of Phase 7 of the PRAMS survey. The Phase 7 version of PRAMS was used from 2012 through 2015. The prior phase, Phase 6, ran from 2009-2011. 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 make direct comparison over time impossible. These include pre-pregnancy and postpartum depression, pregnancy intention, infant cosleeping, and pre-pregnancy income. A multi-phase topic map can be found at:

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

New survey topics covered in Phase 7 include workplace leave, post-pregnancy insurance coverage for the mother, family history of chronic disease, primary location of prenatal care, general satisfaction with prenatal care and delivery, access to services during pregnancy, and participation in home visiting programs. A comparison of topics between this report and the prior year's report can be found in the Appendix.



**Table 1. Distribution of selected maternal characteristics,
MI PRAMS, 2013**

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Maternal Age | | | | |
| Total | 2,025 | 110,331 | 100.0 | |
| <18 Years | 62 | 2,979 | 2.7 | (1.8-4.1) |
| 18-19 Years | 109 | 4,742 | 4.3 | (3.1-5.9) |
| 20-24 Years | 565 | 27,902 | 25.3 | (22.7-28.1) |
| 25-29 Years | 570 | 32,427 | 29.4 | (26.7-32.3) |
| 30-34 Years | 472 | 27,571 | 25.0 | (22.5-27.7) |
| 35-39 Years | 193 | 11,964 | 10.8 | (9.1-12.8) |
| 40+ Years | 54 | 2,746 | 2.5 | (1.7-3.6) |
| Race/Ethnicity | | | | |
| Total | 2,020 | 110,029 | 100.0 | |
| White, non-Hispanic | 829 | 78,556 | 71.4 | (69.4-73.3) |
| Black, non-Hispanic | 1,046 | 20,374 | 18.5 | (18.1-18.9) |
| Hispanic | 67 | 5,861 | 5.3 | (4.0-7.1) |
| Asian/Pacific Islander, non-Hispanic | 28 | 2,119 | 1.9 | (1.2-3.1) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 48 | 3,057 | 2.8 | (1.9-4.0) |
| Education | | | | |
| Total | 2,016 | 109,822 | 100.0 | |
| <High School | 267 | 13,130 | 12.0 | (10.0-14.3) |
| HS Grad/GED | 563 | 28,262 | 25.7 | (23.0-28.6) |
| Some College | 719 | 36,789 | 33.5 | (30.7-36.4) |
| College Degree+ | 467 | 31,641 | 28.8 | (26.2-31.6) |
| Pre-Pregnancy Insurance Status | | | | |
| Total | 2,001 | 109,083 | 100.0 | |
| Uninsured | 276 | 18,019 | 16.5 | (14.2-19.1) |
| Medicaid/Public | 793 | 29,681 | 27.2 | (24.7-29.9) |
| Private | 881 | 59,489 | 54.5 | (51.5-57.6) |
| Other | 51 | 1,895 | 1.7 | (1.1-2.7) |
| Marital Status | | | | |
| Total | 2,025 | 109,701 | 100.0 | |
| Married | 911 | 63,582 | 57.6 | (54.7-60.6) |
| Other | 1,114 | 46,749 | 42.4 | (39.4-45.3) |
| Parity | | | | |
| Total | 2,005 | 109,422 | 100.0 | |
| 1 | 828 | 44,780 | 40.9 | (37.9-44.0) |
| 2+ | 1,177 | 64,642 | 59.1 | (56.0-62.1) |
| Last Year's Household Income | | | | |
| Total | 1,891 | 103,688 | 100.0 | |
| <\$15,000 | 712 | 29,091 | 28.1 | (25.4-30.9) |
| \$15,001-\$22,000 | 272 | 12,877 | 12.4 | (10.4-14.7) |
| \$22,001-\$37,000 | 248 | 15,528 | 15.0 | (12.7-17.5) |
| \$37,001-\$56,000 | 217 | 14,784 | 14.3 | (12.1-16.7) |
| \$56,001+ | 442 | 31,407 | 30.3 | (27.6-33.2) |

*Data not shown due to small sample size.



Table 2. Distribution of pre-pregnancy maternal body mass index categories, MI PRAMS, 2013

| Body Mass Index (BMI) | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------|-------------------------|---------------------------|-------------------------|--------------------------------|
| BMI Category[†] | | | | |
| Underweight | 74 | 4,615 | 4.2 | (3.1-5.7) |
| Normal Weight | 904 | 52,882 | 47.9 | (44.9-51.0) |
| Overweight | 509 | 28,141 | 25.5 | (22.9-28.3) |
| Obese | 538 | 24,694 | 22.4 | (20.0-25.0) |

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

BMI formula = $(\text{Weight in pounds} * 0.45) / [(\text{Height in inches} * 0.025)^2]$

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



Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 74 | 4,615 | 4.2 | (3.1-5.7) |
| Maternal Age | | | | |
| <20 Years | 10 | 443 | 5.7 | (2.0-15.7) |
| 20-29 Years | 46 | 2,613 | 4.3 | (2.9-6.5) |
| 30+ Years | 18 | 1,558 | 3.7 | (2.1-6.3) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 33 | 3,154 | 4.0 | (2.7-6.0) |
| Black, non-Hispanic | 32 | 654 | 3.2 | (2.1-4.8) |
| Hispanic | * | * | * | * |
| Asian/Pacific Islander, non-Hispanic | * | * | * | * |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | * | * | * | * |
| Education | | | | |
| <High School | 14 | 868 | 6.6 | (2.9-14.2) |
| HS Grad/GED | 24 | 1,271 | 4.5 | (2.4-8.4) |
| Some College | 23 | 1,286 | 3.5 | (2.0-5.9) |
| College Degree+ | 12 | 1,059 | 3.3 | (1.8-6.1) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 13 | 830 | 4.6 | (2.1-9.7) |
| Medicaid/Public | 34 | 1,696 | 5.7 | (3.4-9.5) |
| Private | 26 | 2,058 | 3.4 | (2.1-5.3) |
| Other | * | * | * | * |
| Marital Status | | | | |
| Married | 30 | 2,440 | 3.8 | (2.5-5.8) |
| Other | 44 | 2,175 | 4.7 | (2.9-7.3) |
| Parity | | | | |
| 1 | 32 | 1,836 | 4.1 | (2.6-6.5) |
| 2+ | 40 | 2,574 | 4.0 | (2.6-6.1) |
| Last Year's Household Income | | | | |
| <\$15,000 | 25 | 839 | 2.9 | (1.6-5.1) |
| \$15,001-\$22,000 | 16 | 1,203 | 9.3 | (4.8-17.4) |
| \$22,001-\$37,000 | * | * | * | * |
| \$37,001-\$56,000 | 8 | 607 | 4.1 | (1.6-10.4) |
| \$56,001+ | 14 | 1,045 | 3.3 | (1.9-5.9) |

*Data not shown due to small sample size.



Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 904 | 52,882 | 47.9 | (44.9-51.0) |
| Maternal Age | | | | |
| <20 Years | 97 | 4,267 | 55.3 | (42.1-67.7) |
| 20-29 Years | 509 | 28,490 | 47.2 | (43.1-51.4) |
| 30+ Years | 298 | 20,125 | 47.6 | (42.8-52.4) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 410 | 39,037 | 49.7 | (45.7-53.6) |
| Black, non-Hispanic | 419 | 8,500 | 41.7 | (38.1-45.4) |
| Hispanic | 30 | 2,652 | 45.2 | (31.3-60.0) |
| Asian/Pacific Islander, non-Hispanic | 20 | 1,123 | 53.0 | (30.1-74.7) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 20 | 1,352 | 44.2 | (27.1-62.8) |
| Education | | | | |
| <High School | 125 | 6,046 | 46.0 | (36.7-55.7) |
| HS Grad/GED | 254 | 13,376 | 47.3 | (40.9-53.8) |
| Some College | 285 | 16,037 | 43.6 | (38.6-48.7) |
| College Degree+ | 237 | 17,307 | 54.7 | (49.2-60.1) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 117 | 7,572 | 42.0 | (34.1-50.4) |
| Medicaid/Public | 339 | 13,520 | 45.6 | (40.0-51.2) |
| Private | 413 | 30,406 | 51.1 | (46.9-55.3) |
| Other | 21 | 825 | 43.6 | (24.6-64.6) |
| Marital Status | | | | |
| Married | 424 | 31,986 | 50.3 | (46.2-54.4) |
| Other | 480 | 20,896 | 44.7 | (40.1-49.4) |
| Parity | | | | |
| 1 | 405 | 22,224 | 49.6 | (44.8-54.4) |
| 2+ | 486 | 30,165 | 46.7 | (42.6-50.7) |
| Last Year's Household Income | | | | |
| <\$15,000 | 310 | 12,902 | 44.3 | (38.6-50.3) |
| \$15,001-\$22,000 | 106 | 5,318 | 41.3 | (32.6-50.6) |
| \$22,001-\$37,000 | 107 | 7,829 | 50.4 | (41.8-59.0) |
| \$37,001-\$56,000 | 98 | 7,372 | 49.9 | (41.3-58.4) |
| \$56,001+ | 215 | 15,748 | 50.1 | (44.5-55.7) |

*Data not shown due to small sample size.



Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 509 | 28,141 | 25.5 | (22.9-28.3) |
| Maternal Age | | | | |
| <20 Years | 40 | 2,363 | 30.6 | (19.5-44.5) |
| 20-29 Years | 269 | 14,878 | 24.7 | (21.2-28.5) |
| 30+ Years | 200 | 10,899 | 25.8 | (21.9-30.1) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 199 | 19,497 | 24.8 | (21.5-28.4) |
| Black, non-Hispanic | 271 | 5,256 | 25.8 | (22.7-29.1) |
| Hispanic | 21 | 1,904 | 32.5 | (19.9-48.2) |
| Asian/Pacific Islander, non-Hispanic | * | * | * | * |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 14 | 1,102 | 36.1 | (20.1-55.8) |
| Education | | | | |
| <High School | 64 | 3,748 | 28.5 | (20.2-38.7) |
| HS Grad/GED | 115 | 5,630 | 19.9 | (15.1-25.7) |
| Some College | 199 | 10,308 | 28.0 | (23.7-32.8) |
| College Degree+ | 128 | 8,248 | 26.1 | (21.5-31.2) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 77 | 5,457 | 30.3 | (23.1-38.6) |
| Medicaid/Public | 194 | 7,037 | 23.7 | (19.2-28.8) |
| Private | 225 | 14,943 | 25.1 | (21.6-29.0) |
| Other | 9 | 362 | 19.1 | (8.0-39.1) |
| Marital Status | | | | |
| Married | 232 | 15,619 | 24.6 | (21.2-28.3) |
| Other | 277 | 12,522 | 26.8 | (22.8-31.2) |
| Parity | | | | |
| 1 | 207 | 11,464 | 25.6 | (21.5-30.1) |
| 2+ | 299 | 16,501 | 25.5 | (22.1-29.2) |
| Last Year's Household Income | | | | |
| <\$15,000 | 170 | 8,638 | 29.7 | (24.2-35.8) |
| \$15,001-\$22,000 | 69 | 3,278 | 25.5 | (18.5-33.9) |
| \$22,001-\$37,000 | 52 | 3,015 | 19.4 | (13.5-27.0) |
| \$37,001-\$56,000 | 60 | 3,585 | 24.2 | (17.9-32.0) |
| \$56,001+ | 124 | 8,302 | 26.4 | (21.8-31.7) |

*Data not shown due to small sample size.



Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 538 | 24,694 | 22.4 | (20.0-25.0) |
| Maternal Age | | | | |
| <20 Years | 24 | 647 | 8.4 | (3.9-17.2) |
| 20-29 Years | 311 | 14,348 | 23.8 | (20.4-27.5) |
| 30+ Years | 203 | 9,699 | 22.9 | (19.2-27.2) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 187 | 16,867 | 21.5 | (18.4-24.9) |
| Black, non-Hispanic | 324 | 5,963 | 29.3 | (26.1-32.7) |
| Hispanic | 14 | 1,134 | 19.3 | (10.2-33.6) |
| Asian/Pacific Islander, non-Hispanic | * | * | * | * |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 11 | 408 | 13.3 | (5.3-29.8) |
| Education | | | | |
| <High School | 64 | 2,468 | 18.8 | (12.5-27.2) |
| HS Grad/GED | 170 | 7,985 | 28.3 | (23.0-34.2) |
| Some College | 212 | 9,158 | 24.9 | (20.8-29.5) |
| College Degree+ | 90 | 5,027 | 15.9 | (12.3-20.3) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 69 | 4,160 | 23.1 | (16.9-30.7) |
| Medicaid/Public | 226 | 7,428 | 25.0 | (20.6-30.0) |
| Private | 217 | 12,082 | 20.3 | (17.2-23.8) |
| Other | 21 | 707 | 37.3 | (18.6-60.8) |
| Marital Status | | | | |
| Married | 225 | 13,538 | 21.3 | (18.2-24.8) |
| Other | 313 | 11,156 | 23.9 | (20.2-27.9) |
| Parity | | | | |
| 1 | 184 | 9,255 | 20.7 | (17.1-24.8) |
| 2+ | 352 | 15,402 | 23.8 | (20.6-27.4) |
| Last Year's Household Income | | | | |
| <\$15,000 | 207 | 6,713 | 23.1 | (18.6-28.2) |
| \$15,001-\$22,000 | 81 | 3,079 | 23.9 | (17.3-32.1) |
| \$22,001-\$37,000 | 84 | 4,187 | 27.0 | (20.2-35.0) |
| \$37,001-\$56,000 | 51 | 3,221 | 21.8 | (15.4-29.8) |
| \$56,001+ | 89 | 6,312 | 20.1 | (16.0-25.0) |

*Data not shown due to small sample size.



Table 7. Prevalence of maternal health problems during the 3 months before pregnancy, MI PRAMS, 2013

| Maternal Health Problem | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--------------------------------|-------------------------|---------------------------|-------------------------|--------------------------------|
| Types (non-exclusive) | | | | |
| Anxiety | 281 | 16,914 | 15.4 | (13.3-17.9) |
| Anemia | 424 | 15,656 | 14.3 | (12.4-16.4) |
| Asthma | 264 | 14,714 | 13.4 | (11.3-15.8) |
| Depression | 290 | 13,343 | 12.2 | (10.3-14.3) |
| Thyroid Problems | 84 | 4,970 | 4.5 | (3.4-6.0) |
| Hypertension | 133 | 4,744 | 4.3 | (3.3-5.6) |
| Diabetes | 65 | 2,172 | 2.0 | (1.4-2.8) |
| Heart Problems | 49 | 1,918 | 1.8 | (1.1-2.7) |
| Epilepsy | 30 | 1,257 | 1.1 | (0.7-1.9) |



Table 8. Prevalence of pre-pregnancy discussions with health care provider about improving mother's health by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 445 | 22,414 | 20.4 | (18.1-22.9) |
| Maternal Age | | | | |
| <20 Years | 33 | 1,305 | 17.0 | (9.5-28.5) |
| 20-29 Years | 254 | 11,716 | 19.5 | (16.5-22.8) |
| 30+ Years | 158 | 9,393 | 22.4 | (18.6-26.7) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 173 | 15,024 | 19.2 | (16.4-22.4) |
| Black, non-Hispanic | 239 | 4,618 | 22.8 | (19.9-26.0) |
| Hispanic | 20 | 1,711 | 29.2 | (17.4-44.6) |
| Asian/Pacific Islander, non-Hispanic | * | * | * | * |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 7 | 322 | 10.5 | (4.0-25.0) |
| Education | | | | |
| <High School | 70 | 2,967 | 22.8 | (15.8-31.7) |
| HS Grad/GED | 132 | 5,279 | 18.7 | (14.4-24.0) |
| Some College | 123 | 6,046 | 16.5 | (13.1-20.6) |
| College Degree+ | 118 | 8,060 | 25.7 | (21.2-30.8) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 27 | 1,748 | 9.7 | (5.7-16.1) |
| Medicaid/Public | 196 | 6,526 | 22.0 | (17.9-26.7) |
| Private | 200 | 13,448 | 22.6 | (19.3-26.3) |
| Other | 18 | 499 | 28.1 | (13.3-49.8) |
| Marital Status | | | | |
| Married | 219 | 14,788 | 23.4 | (20.1-27.0) |
| Other | 226 | 7,627 | 16.4 | (13.4-19.9) |
| Parity | | | | |
| 1 | 195 | 10,683 | 23.9 | (20.1-28.3) |
| 2+ | 244 | 11,376 | 17.7 | (14.9-20.8) |
| Last Year's Household Income | | | | |
| <\$15,000 | 154 | 4,776 | 16.5 | (12.8-20.9) |
| \$15,001-\$22,000 | 46 | 1,550 | 12.1 | (7.7-18.4) |
| \$22,001-\$37,000 | 42 | 2,669 | 17.2 | (11.7-24.6) |
| \$37,001-\$56,000 | 40 | 3,015 | 20.6 | (14.3-28.9) |
| \$56,001+ | 121 | 8,263 | 26.5 | (21.8-31.7) |

*Data not shown due to small sample size.



Table 9. Prevalence of topics discussed by health care provider among women reporting any pre-pregnancy counseling, MI PRAMS, 2013

| Topics Covered | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Type of Counseling (non-exclusive) | | | | |
| Folic acid vitamins | 304 | 16,843 | 75.7 | (69.8-80.7) |
| Healthy weight | 290 | 13,846 | 62.7 | (56.1-68.9) |
| Smoking | 287 | 11,749 | 53.2 | (46.5-59.8) |
| Alcohol | 283 | 11,492 | 52.0 | (45.4-58.6) |
| Prescription drugs | 252 | 11,434 | 51.8 | (45.2-58.4) |
| Vaccines updated | 249 | 10,907 | 49.6 | (43.0-56.3) |
| Illegal Drugs | 271 | 10,899 | 49.5 | (42.9-56.1) |
| Visiting dentist | 203 | 9,741 | 44.3 | (37.8-51.0) |
| Controlling diabetes / high blood pressure conditions | 163 | 6,269 | 28.6 | (23.2-34.7) |
| Depression/anxiety | 135 | 5,807 | 26.5 | (21.0-32.8) |
| Genetic counseling | 131 | 5,192 | 23.7 | (18.8-29.3) |

Table 10. Prevalence of health behaviors during the 12 months before pregnancy, MI PRAMS, 2013

| Preconception behavior | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Type of behavior (non-exclusive) | | | | |
| Teeth cleaned | 1,116 | 62,728 | 57.2 | (54.1-60.2) |
| Exercised 3+ days/week | 786 | 47,770 | 43.6 | (40.6-46.7) |
| Talked about medical family history | 693 | 37,210 | 34.0 | (31.1-36.9) |
| Dieted to lose weight | 550 | 34,004 | 31.0 | (28.2-34.0) |
| Checked/treated for hypertension | 607 | 29,151 | 26.7 | (24.2-29.4) |
| Took Rx medicine | 448 | 26,410 | 24.1 | (21.5-26.9) |
| Checked/treated for depression/anxiety | 447 | 23,611 | 21.6 | (19.1-24.2) |
| Checked/treated for diabetes | 442 | 21,029 | 19.3 | (17.0-21.7) |



Explanation of Pregnancy Intention, Pregnancy Timing, and Contraceptive Behavior

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

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

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

Starting with Phase 7 of MI PRAMS (2012-2015), a fifth pregnancy intention response option is offered. Women who were not sure whether they wanted to be pregnant could indicate that instead of choosing one of the other four responses. Because of the change in response options for pregnancy intention, comparisons cannot be made across survey phases (before 2012 and after 2012). **Table 11** and **Table 12** report pregnancy intention for Michigan mothers.

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 13** 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. Mothers are asked whether they were trying to conceive at the time they became pregnant. Characteristics of women who report that they were trying to conceive at the time of pregnancy are reported in **Table 14**.

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 15** reports the characteristics of mothers who became pregnant despite acting to prevent pregnancy. Characteristics of women who report they were not trying to conceive, but were also not engaged in any behaviors that would prevent pregnancy are characteristics are reported in **Table 16**. These mothers also share their reasons for not using contraceptives in **Table 17**.



Table 11. Distribution of pregnancy intention categories, MI PRAMS, 2013

| Intention | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|------------------|-------------------------|---------------------------|-------------------------|--------------------------------|
| Total | 1,988 | 109,019 | 100.0 | |
| Intended | 851 | 55,395 | 50.8 | (47.7-53.9) |
| Unintended | 757 | 36,162 | 33.2 | (30.3-36.2) |
| Unsure | 380 | 17,463 | 16.0 | (13.9-18.4) |

Table 12. Distribution of unintended pregnancy subtypes among women reporting either unsure or unintended pregnancy, MI PRAMS, 2013

| Unintended Pregnancy Subtype | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|-------------------------------------|-------------------------|---------------------------|-------------------------|--------------------------------|
| Mistimed | 543 | 27,963 | 52.1 | (47.8-56.5) |
| Unwanted | 214 | 8,199 | 15.3 | (12.6-18.4) |
| Unsure | 380 | 17,463 | 32.6 | (28.6-36.8) |



Table 13. Prevalence of unintended pregnancy by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 757 | 36,162 | 33.2 | (30.3-36.2) |
| Maternal Age | | | | |
| <20 Years | 111 | 5,590 | 72.8 | (60.2-82.6) |
| 20-29 Years | 454 | 20,746 | 34.7 | (30.9-38.8) |
| 30+ Years | 192 | 9,826 | 23.6 | (19.8-28.0) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 219 | 23,484 | 30.2 | (26.6-34.1) |
| Black, non-Hispanic | 491 | 9,836 | 49.5 | (45.8-53.2) |
| Hispanic | 25 | 1,791 | 30.6 | (18.8-45.5) |
| Asian/Pacific Islander, non-Hispanic | 6 | 312 | 14.7 | (4.9-36.9) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 15 | 713 | 23.3 | (10.7-43.5) |
| Education | | | | |
| <High School | 122 | 5,806 | 44.8 | (35.3-54.8) |
| HS Grad/GED | 252 | 11,560 | 41.8 | (35.5-48.3) |
| Some College | 280 | 12,488 | 34.3 | (29.7-39.3) |
| College Degree+ | 101 | 6,149 | 19.5 | (15.5-24.3) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 117 | 7,681 | 42.8 | (34.7-51.3) |
| Medicaid/Public | 365 | 11,985 | 41.1 | (35.8-46.7) |
| Private | 244 | 15,089 | 25.6 | (22.0-29.5) |
| Other | 20 | 931 | 49.7 | (29.0-70.5) |
| Marital Status | | | | |
| Married | 211 | 12,520 | 19.9 | (16.8-23.4) |
| Other | 546 | 23,642 | 51.2 | (46.5-55.9) |
| Parity | | | | |
| 1 | 315 | 16,703 | 37.7 | (33.1-42.6) |
| 2+ | 431 | 19,174 | 30.0 | (26.5-33.8) |
| Last Year's Household Income | | | | |
| <\$15,000 | 375 | 15,205 | 52.7 | (46.7-58.7) |
| \$15,001-\$22,000 | 112 | 4,795 | 37.9 | (29.5-47.1) |
| \$22,001-\$37,000 | 81 | 4,857 | 31.3 | (23.7-40.1) |
| \$37,001-\$56,000 | 58 | 3,759 | 26.1 | (19.2-34.4) |
| \$56,001+ | 80 | 5,419 | 17.3 | (13.5-22.1) |

*Data not shown due to small sample size.



Table 14. Characteristics of women trying to conceive during the pre-pregnancy period, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 790 | 53,192 | 48.8 | (45.8-51.9) |
| Maternal Age | | | | |
| <20 Years | 18 | 855 | 11.3 | (5.0-23.5) |
| 20-29 Years | 399 | 27,103 | 45.4 | (41.3-49.6) |
| 30+ Years | 373 | 25,234 | 60.6 | (55.8-65.2) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 482 | 42,237 | 54.3 | (50.3-58.2) |
| Black, non-Hispanic | 236 | 4,431 | 22.3 | (19.4-25.6) |
| Hispanic | 28 | 3,062 | 53.6 | (38.7-67.8) |
| Asian/Pacific Islander, non-Hispanic | 17 | 1,220 | 57.6 | (33.2-78.7) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 25 | 2,089 | 68.3 | (49.0-82.9) |
| Education | | | | |
| <High School | 54 | 3,389 | 26.5 | (18.6-36.2) |
| HS Grad/GED | 164 | 11,258 | 40.4 | (34.1-47.0) |
| Some College | 264 | 17,037 | 46.9 | (41.9-52.1) |
| College Degree+ | 305 | 21,423 | 68.2 | (62.8-73.1) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 95 | 6,886 | 38.9 | (31.1-47.3) |
| Medicaid/Public | 170 | 9,382 | 32.1 | (26.8-37.9) |
| Private | 500 | 35,951 | 60.9 | (56.6-64.9) |
| Other | 21 | 554 | 29.5 | (15.4-49.0) |
| Marital Status | | | | |
| Married | 574 | 42,242 | 67.0 | (63.0-70.8) |
| Other | 216 | 10,950 | 23.9 | (20.0-28.3) |
| Parity | | | | |
| 1 | 337 | 20,371 | 46.2 | (41.4-51.0) |
| 2+ | 449 | 32,567 | 51.0 | (47.0-55.0) |
| Last Year's Household Income | | | | |
| <\$15,000 | 140 | 7,236 | 25.4 | (20.4-31.3) |
| \$15,001-\$22,000 | 86 | 4,944 | 39.0 | (30.4-48.3) |
| \$22,001-\$37,000 | 100 | 7,946 | 51.8 | (43.0-60.4) |
| \$37,001-\$56,000 | 117 | 8,812 | 60.0 | (51.3-68.1) |
| \$56,001+ | 309 | 21,687 | 69.3 | (63.8-74.3) |

*Data not shown due to small sample size.



Table 15. Prevalence of women who became pregnant despite using contraceptive practices, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 543 | 26,855 | 24.7 | (22.1-27.5) |
| Maternal Age | | | | |
| <20 Years | 77 | 4,289 | 56.7 | (43.5-69.0) |
| 20-29 Years | 313 | 14,402 | 24.1 | (20.7-27.9) |
| 30+ Years | 153 | 8,164 | 19.6 | (16.0-23.8) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 155 | 17,357 | 22.3 | (19.0-26.0) |
| Black, non-Hispanic | 355 | 7,157 | 36.1 | (32.6-39.8) |
| Hispanic | 16 | 1,273 | 22.3 | (12.4-36.8) |
| Asian/Pacific Islander, non-Hispanic | * | * | * | * |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 10 | 516 | 16.9 | (7.2-34.5) |
| Education | | | | |
| <High School | 85 | 4,077 | 31.8 | (23.3-41.8) |
| HS Grad/GED | 176 | 8,204 | 29.4 | (23.9-35.7) |
| Some College | 199 | 9,310 | 25.6 | (21.4-30.4) |
| College Degree+ | 80 | 5,047 | 16.1 | (12.3-20.7) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 85 | 5,435 | 30.7 | (23.4-39.2) |
| Medicaid/Public | 266 | 8,972 | 30.7 | (25.9-36.1) |
| Private | 175 | 11,145 | 18.9 | (15.7-22.5) |
| Other | 11 | 960 | 51.1 | (30.4-71.3) |
| Marital Status | | | | |
| Married | 148 | 9,078 | 14.4 | (11.8-17.5) |
| Other | 395 | 17,777 | 38.8 | (34.2-43.6) |
| Parity | | | | |
| 1 | 226 | 12,619 | 28.6 | (24.3-33.4) |
| 2+ | 312 | 14,170 | 22.2 | (19.0-25.7) |
| Last Year's Household Income | | | | |
| <\$15,000 | 240 | 9,744 | 34.3 | (28.8-40.1) |
| \$15,001-\$22,000 | 88 | 4,332 | 34.2 | (25.8-43.6) |
| \$22,001-\$37,000 | 61 | 3,507 | 22.9 | (16.1-31.3) |
| \$37,001-\$56,000 | 45 | 2,437 | 16.6 | (11.2-23.8) |
| \$56,001+ | 66 | 5,101 | 16.3 | (12.4-21.1) |

*Data not shown due to small sample size.



Table 16. Prevalence of women who were not trying to conceive but were not doing anything to prevent pregnancy by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 652 | 28,846 | 26.5 | (23.9-29.3) |
| Maternal Age | | | | |
| <20 Years | 69 | 2,423 | 32.0 | (21.5-44.8) |
| 20-29 Years | 408 | 18,188 | 30.5 | (26.8-34.5) |
| 30+ Years | 175 | 8,235 | 19.8 | (16.3-23.7) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 183 | 18,215 | 23.4 | (20.2-27.0) |
| Black, non-Hispanic | 425 | 8,240 | 41.6 | (38.0-45.2) |
| Hispanic | 22 | 1,380 | 24.1 | (14.0-38.4) |
| Asian/Pacific Islander, non-Hispanic | 6 | 388 | 18.3 | (5.4-46.8) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 13 | 452 | 14.8 | (5.3-34.8) |
| Education | | | | |
| <High School | 115 | 5,336 | 41.7 | (32.4-51.6) |
| HS Grad/GED | 216 | 8,402 | 30.2 | (24.8-36.2) |
| Some College | 243 | 9,949 | 27.4 | (23.2-32.1) |
| College Degree+ | 75 | 4,953 | 15.8 | (12.1-20.2) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 90 | 5,373 | 30.4 | (23.2-38.6) |
| Medicaid/Public | 339 | 10,844 | 37.1 | (32.0-42.6) |
| Private | 196 | 11,967 | 20.3 | (17.0-23.9) |
| Other | 18 | 366 | 19.5 | (9.5-35.7) |
| Marital Status | | | | |
| Married | 178 | 11,746 | 18.6 | (15.6-22.1) |
| Other | 474 | 17,100 | 37.3 | (33.0-41.9) |
| Parity | | | | |
| 1 | 246 | 11,117 | 25.2 | (21.3-29.6) |
| 2+ | 396 | 17,144 | 26.8 | (23.5-30.5) |
| Last Year's Household Income | | | | |
| <\$15,000 | 311 | 11,457 | 40.3 | (34.5-46.3) |
| \$15,001-\$22,000 | 93 | 3,406 | 26.9 | (19.9-35.1) |
| \$22,001-\$37,000 | 82 | 3,893 | 25.4 | (18.8-33.3) |
| \$37,001-\$56,000 | 54 | 3,447 | 23.5 | (16.9-31.6) |
| \$56,001+ | 63 | 4,493 | 14.4 | (10.9-18.7) |

*Data not shown due to small sample size.



Table 17. Reasons women who were not trying to conceive but were not doing anything to prevent pregnancy did not use contraception, MI PRAMS, 2013

| Reason | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Reason (non-exclusive) | | | | |
| Didn't mind getting pregnant | 254 | 13,277 | 44.5 | (38.8-50.3) |
| Thought couldn't get pregnant at that time | 221 | 8,528 | 28.4 | (23.6-33.8) |
| Partner didn't want to use birth control | 134 | 4,934 | 16.6 | (12.8-21.2) |
| Side effects from birth control | 86 | 4,112 | 13.7 | (10.0-18.5) |
| Other | 86 | 3,813 | 12.7 | (9.3-17.1) |
| Thought self/partner sterile | 79 | 3,162 | 10.5 | (7.5-14.7) |
| Problems getting birth control | 69 | 2,310 | 7.7 | (5.4-10.9) |
| Forgot to use birth control | 71 | 2,221 | 7.4 | (5.2-10.4) |



Table 18. Prevalence of using any postpartum contraceptive method by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 1,607 | 87,845 | 80.9 | (78.4-83.1) |
| Maternal Age | | | | |
| <20 Years | 151 | 7,106 | 94.1 | (89.8-96.7) |
| 20-29 Years | 911 | 48,143 | 81.3 | (77.8-84.4) |
| 30+ Years | 545 | 32,596 | 77.9 | (73.7-81.6) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 639 | 62,068 | 80.0 | (76.7-82.9) |
| Black, non-Hispanic | 843 | 16,094 | 80.8 | (77.7-83.6) |
| Hispanic | 58 | 5,358 | 93.5 | (84.1-97.5) |
| Asian/Pacific Islander, non-Hispanic | 23 | 1,649 | 77.8 | (49.9-92.5) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 39 | 2,352 | 80.4 | (58.4-92.3) |
| Education | | | | |
| <High School | 200 | 9,537 | 75.1 | (65.3-82.9) |
| HS Grad/GED | 471 | 24,416 | 88.4 | (84.3-91.6) |
| Some College | 563 | 28,379 | 78.1 | (73.6-82.1) |
| College Degree+ | 365 | 25,048 | 79.4 | (74.7-83.5) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 213 | 14,136 | 79.7 | (72.5-85.5) |
| Medicaid/Public | 637 | 23,869 | 82.8 | (78.2-86.5) |
| Private | 700 | 47,647 | 80.5 | (77.0-83.6) |
| Other | 37 | 1,163 | 66.0 | (41.2-84.3) |
| Marital Status | | | | |
| Married | 705 | 49,627 | 78.9 | (75.4-82.1) |
| Other | 902 | 38,218 | 83.5 | (80.0-86.6) |
| Parity | | | | |
| 1 | 663 | 35,632 | 80.8 | (76.9-84.2) |
| 2+ | 930 | 51,626 | 81.2 | (77.8-84.1) |
| Last Year's Household Income | | | | |
| <\$15,000 | 581 | 24,247 | 84.9 | (80.4-88.6) |
| \$15,001-\$22,000 | 224 | 10,293 | 80.8 | (72.9-86.9) |
| \$22,001-\$37,000 | 202 | 12,725 | 82.3 | (75.2-87.7) |
| \$37,001-\$56,000 | 161 | 11,000 | 74.9 | (66.7-81.6) |
| \$56,001+ | 352 | 25,127 | 80.0 | (75.2-84.1) |

*Data not shown due to small sample size.



Table 19. Prevalence of postpartum contraceptive methods, MI PRAMS, 2013

| Method | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Pregnancy prevention method (non-exclusive) | | | | |
| Condoms | 558 | 31,576 | 35.7 | (32.4-39.1) |
| Oral contraceptives | 385 | 21,779 | 24.6 | (21.7-27.7) |
| Withdrawal | 258 | 13,599 | 15.4 | (13.1-17.9) |
| Intrauterine device | 193 | 11,925 | 13.5 | (11.1-16.2) |
| Abstinence | 225 | 10,762 | 12.2 | (10.2-14.5) |
| Shot every 3 months | 260 | 9,342 | 10.5 | (8.8-12.6) |
| Tubal ligation | 177 | 8,882 | 10.0 | (8.1-12.4) |
| Rhythm method | 60 | 4,690 | 5.3 | (3.9-7.2) |
| Partner had vasectomy | 54 | 3,910 | 4.4 | (3.2-6.1) |
| Contraceptive implant | 89 | 3,189 | 3.6 | (2.5-5.1) |
| Contraceptive patch or vaginal ring | 25 | 1,406 | 1.6 | (0.9-2.9) |
| Other method | 31 | 2,141 | 2.4 | (1.5-3.9) |

Table 20. Reasons for not using postpartum contraceptive methods, MI PRAMS, 2013

| Reason | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Reason (non-exclusive) | | | | |
| Mother does not want to use birth control | 113 | 7,275 | 33.6 | (27.4-40.4) |
| Side effects from birth control | 123 | 7,121 | 32.9 | (26.8-39.6) |
| Not having sex | 135 | 5,723 | 26.4 | (21.1-32.5) |
| Mother wants to get pregnant | 44 | 2,675 | 12.4 | (8.5-17.6) |
| Partner does not want to use anything | 35 | 2,211 | 10.2 | (6.5-15.8) |
| Mother has had tubes tied or blocked | 39 | 1,746 | 8.1 | (5.1-12.4) |
| Problems getting birth control | 15 | 807 | 3.7 | (1.6-8.7) |
| Pregnant now | 14 | 495 | 2.3 | (1.0-5.3) |
| Partner has had vasectomy | * | * | * | * |
| Other reason | 83 | 5,820 | 26.9 | (21.3-33.4) |

*Data not shown due to small sample size.



Table 21. Trimester of entry into prenatal care, MI PRAMS, 2013

| Trimester of entry | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--------------------|------------------|--------------------|------------------|-------------------------|
| 1st Trimester | 1,600 | 91,397 | 84.0 | (81.7-86.2) |
| 2nd Trimester | 326 | 14,834 | 13.6 | (11.7-15.9) |
| 3rd Trimester | 36 | 1,795 | 1.7 | (1.0-2.7) |
| No prenatal care | 15 | 716 | 0.7 | (0.3-1.5) |

Table 22. Prevalence of getting prenatal care as early as wanted, MI PRAMS, 2013

| Got care as early as wanted? | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|------------------------------|------------------|--------------------|------------------|-------------------------|
| No | 401 | 19,481 | 17.9 | (15.6-20.4) |
| Yes | 1,587 | 89,375 | 82.1 | (79.6-84.4) |

Table 23. Source of payments for prenatal care, MI PRAMS, 2013

| Source of prenatal care payment | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Source of payment (non-exclusive) | | | | |
| Uninsured during pregnancy | 24 | 1,739 | 1.6 | (0.9-2.7) |
| Medicaid/Public | 1,196 | 55,002 | 50.3 | (47.3-53.3) |
| Private - from work | 890 | 59,225 | 54.2 | (51.1-57.2) |
| Private - purchased directly | 34 | 1,446 | 1.3 | (0.8-2.2) |
| Private - TRICARE/other military | 18 | 1,211 | 1.1 | (0.6-2.0) |
| Other | 66 | 2,127 | 1.9 | (1.4-2.8) |



Table 24. Prevalence of first trimester entry into prenatal care by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 1,600 | 91,397 | 84.0 | (81.7-86.2) |
| Maternal Age | | | | |
| <20 Years | 95 | 5,156 | 68.3 | (55.8-78.6) |
| 20-29 Years | 901 | 49,510 | 83.1 | (79.7-86.0) |
| 30+ Years | 604 | 36,732 | 88.3 | (84.9-91.0) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 730 | 68,006 | 87.5 | (84.5-90.1) |
| Black, non-Hispanic | 756 | 14,406 | 73.1 | (69.6-76.4) |
| Hispanic | 50 | 4,658 | 79.9 | (66.5-88.8) |
| Asian/Pacific Islander, non-Hispanic | 22 | 1,602 | 75.6 | (47.9-91.3) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 36 | 2,376 | 77.7 | (59.4-89.3) |
| Education | | | | |
| <High School | 157 | 8,877 | 70.3 | (60.8-78.3) |
| HS Grad/GED | 417 | 22,384 | 81.2 | (75.9-85.5) |
| Some College | 591 | 30,781 | 84.2 | (80.1-87.7) |
| College Degree+ | 428 | 29,123 | 92.5 | (89.0-94.9) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 195 | 13,410 | 75.2 | (67.7-81.4) |
| Medicaid/Public | 552 | 21,484 | 75.0 | (69.8-79.5) |
| Private | 804 | 54,867 | 92.5 | (89.9-94.5) |
| Other | 36 | 1,059 | 61.4 | (36.0-81.8) |
| Marital Status | | | | |
| Married | 799 | 55,767 | 88.9 | (85.9-91.3) |
| Other | 801 | 35,630 | 77.5 | (73.5-81.1) |
| Parity | | | | |
| 1 | 680 | 38,003 | 85.2 | (81.5-88.2) |
| 2+ | 908 | 52,666 | 83.3 | (80.0-86.1) |
| Last Year's Household Income | | | | |
| <\$15,000 | 500 | 21,041 | 74.1 | (68.7-79.0) |
| \$15,001-\$22,000 | 214 | 10,586 | 83.0 | (75.4-88.5) |
| \$22,001-\$37,000 | 198 | 12,671 | 82.5 | (74.9-88.1) |
| \$37,001-\$56,000 | 187 | 13,049 | 89.1 | (82.7-93.3) |
| \$56,001+ | 412 | 29,436 | 94.3 | (91.0-96.5) |

*Data not shown due to small sample size.



Table 25. Prevalence of topics discussed by health care provider during prenatal care visits, MI PRAMS, 2013

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Topic (non-exclusive) | | | | |
| Medicines safe to take during pregnancy | 1,783 | 98,129 | 90.2 | (88.2-91.8) |
| Tests for birth defects and hereditary disorders | 1,723 | 94,945 | 87.8 | (85.6-89.6) |
| Breastfeeding my baby | 1,714 | 90,501 | 83.6 | (81.2-85.7) |
| Signs and symptoms of preterm labor | 1,610 | 88,271 | 81.1 | (78.5-83.4) |
| Getting tested for HIV | 1,630 | 84,688 | 78.3 | (75.6-80.7) |
| What to do if experiencing depression during/after pregnancy | 1,575 | 85,139 | 78.3 | (75.7-80.7) |
| Amount of weight to gain during pregnancy | 1,517 | 81,060 | 74.4 | (71.6-77.1) |
| Smoking during pregnancy | 1,514 | 76,610 | 70.5 | (67.6-73.2) |
| Alcohol use during pregnancy | 1,504 | 76,197 | 70.3 | (67.3-73.0) |
| Illegal drug use during pregnancy | 1,366 | 67,351 | 62.2 | (59.2-65.1) |
| Seatbelt use | 1,198 | 59,235 | 54.8 | (51.7-57.9) |
| Domestic abuse towards women by partners | 1,204 | 58,766 | 54.0 | (50.9-57.1) |

Table 26. Prevalence of HIV testing and prenatal care discussions about HIV testing, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Tested for HIV During Pregnancy or Delivery | | | | |
| Not Tested | 372 | 25,846 | 23.7 | (21.1-26.6) |
| Tested | 1,425 | 68,103 | 62.6 | (59.5-65.5) |
| Do Not Know | 201 | 14,913 | 13.7 | (11.6-16.1) |
| Discussed HIV testing with provider | | | | |
| Not Tested | 200 | 13,795 | 14.9 | (12.6-17.6) |
| Tested | 1,313 | 62,687 | 67.7 | (64.4-70.8) |
| Do Not Know | 102 | 7,283 | 6.8 | (5.3-8.6) |
| Did not discuss HIV testing with provider | | | | |
| Not Tested | 157 | 11,463 | 12.4 | (10.3-14.8) |
| Tested | 94 | 4,646 | 5.0 | (3.8-6.6) |
| Do Not Know | 93 | 7,268 | 6.8 | (5.3-8.6) |



Table 27. Prevalence of oral health related opinions and practices during pregnancy, MI PRAMS, 2013

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|-------------------------|---------------------------|-------------------------|--------------------------------|
| Opinions and Practices (non-exclusive) | | | | |
| I knew it was important to care for my teeth and gums during pregnancy | 1,739 | 96,644 | 88.6 | (86.5-90.5) |
| A dental or other health care worker talked with me about how to care for my teeth and gums | 1,023 | 54,276 | 49.9 | (46.8-53.0) |
| I had my teeth cleaned by a dentist or dental hygienist | 972 | 54,731 | 50.3 | (47.2-53.4) |
| I had insurance to cover dental care during pregnancy | 1,522 | 82,795 | 76.5 | (73.7-79.1) |
| I needed to see a dentist for a problem | 459 | 23,085 | 21.3 | (18.8-24.0) |
| I went to a dentist or dental clinic about a problem | 333 | 15,953 | 14.7 | (12.7-17.1) |



Table 28. Drinking behavior during the last three months of pregnancy compared to preconception behavior, MI PRAMS, 2013

| Drinking Change | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|----------------------------------|------------------|--------------------|------------------|-------------------------|
| Did not consume alcohol | 820 | 39,718 | 36.6 | (33.6-39.6) |
| Quit consuming alcohol | 1,034 | 61,251 | 56.4 | (53.3-59.4) |
| Reduced alcohol consumption | 75 | 5,196 | 4.8 | (3.6-6.3) |
| Same or more alcohol consumption | 52 | 2,192 | 2.0 | (1.3-3.1) |

Table 29. Smoking behavior during the last three months of pregnancy compared to preconception behavior, MI PRAMS, 2013

| Smoking Change | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------|------------------|--------------------|------------------|-------------------------|
| Non-smoker throughout | 1,477 | 79,791 | 73.1 | (70.1-75.8) |
| Smoker who quit | 247 | 14,853 | 13.6 | (11.6-15.9) |
| Smoker who reduced | 168 | 10,033 | 9.2 | (7.5-11.3) |
| Smoker smoking the same or more | 103 | 4,501 | 4.1 | (3.0-5.6) |
| Non-smoker resumed | * | * | * | * |

*Data not shown due to small sample size.



Table 30. Prevalence of smoking during the last three months of pregnancy by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 275 | 14,832 | 13.5 | (11.5-15.9) |
| Maternal Age | | | | |
| <20 Years | 20 | 1,348 | 17.5 | (9.2-30.7) |
| 20-29 Years | 167 | 9,493 | 15.8 | (12.9-19.3) |
| 30+ Years | 88 | 3,991 | 9.5 | (7.0-12.7) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 129 | 11,746 | 15.0 | (12.3-18.2) |
| Black, non-Hispanic | 134 | 2,317 | 11.5 | (9.5-13.9) |
| Hispanic | * | * | * | * |
| Asian/Pacific Islander, non-Hispanic | * | * | * | * |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | * | * | * | * |
| Education | | | | |
| <High School | 63 | 2,849 | 21.9 | (15.0-31.0) |
| HS Grad/GED | 109 | 6,454 | 23.0 | (18.0-29.0) |
| Some College | 98 | 5,131 | 14.0 | (10.7-18.2) |
| College Degree+ | * | * | * | * |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 58 | 4,640 | 25.8 | (18.9-34.0) |
| Medicaid/Public | 161 | 6,399 | 22.0 | (17.6-27.0) |
| Private | 45 | 3,077 | 5.2 | (3.5-7.6) |
| Other | 7 | 524 | 27.6 | (10.8-54.7) |
| Marital Status | | | | |
| Married | 56 | 3,796 | 6.0 | (4.2-8.4) |
| Other | 219 | 11,036 | 23.8 | (19.9-28.2) |
| Parity | | | | |
| 1 | 75 | 5,293 | 11.9 | (8.8-15.8) |
| 2+ | 198 | 9,509 | 14.8 | (12.1-17.9) |
| Last Year's Household Income | | | | |
| <\$15,000 | 146 | 6,718 | 23.3 | (18.5-28.8) |
| \$15,001-\$22,000 | 51 | 3,087 | 24.0 | (16.5-33.4) |
| \$22,001-\$37,000 | 38 | 2,774 | 17.9 | (12.0-25.8) |
| \$37,001-\$56,000 | 14 | 696 | 4.7 | (2.2-9.6) |
| \$56,001+ | 15 | 1,026 | 3.3 | (1.7-6.1) |

*Data not shown due to small sample size.



**Table 31. Distribution of delivery methods,
MI PRAMS, 2013**

| Experience | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|-------------------------------------|------------------|--------------------|------------------|-------------------------|
| How was your baby delivered? | | | | |
| Vaginal | 1,314 | 75,075 | 68.1 | (65.2-70.9) |
| Not Vaginal | 709 | 35,137 | 31.9 | (29.1-34.8) |

**Table 32. Distribution of and reasons for labor induction,
MI PRAMS, 2013**

| Experience | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Did a doctor, nurse, or other health care worker try to induce your labor? | | | | |
| No | 1,190 | 66,098 | 60.8 | (57.7-63.8) |
| Yes | 796 | 42,656 | 39.2 | (36.2-42.3) |
| Reasons for labor induction (non-exclusive) | | | | |
| You were past your due date | 182 | 11,313 | 26.5 | (22.3-31.2) |
| Your labor stopped or was not progressing | 180 | 9,004 | 21.1 | (17.4-25.4) |
| Your health care provider was worried about the size of the baby | 134 | 7,078 | 16.6 | (13.2-20.5) |
| You had a complication with your pregnancy such as low amniotic fluid or pre-eclampsia | 159 | 6,826 | 16.0 | (12.8-19.8) |
| Your water broke and there was a fear of infection | 111 | 6,267 | 14.7 | (11.4-18.6) |
| You wanted to schedule your delivery | 60 | 3,617 | 8.5 | (6.1-11.7) |
| Your baby was not doing well and needed to be born | 77 | 2,927 | 6.9 | (4.9-9.5) |
| You wanted to give birth with a specific health care provider | 48 | 2,517 | 5.9 | (4.0-8.6) |
| Other | 188 | 10,502 | 24.6 | (20.5-29.2) |



Table 33. Prevalence of low birthweight[^] by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 409 | 8,101 | 7.3 | (7.1-7.6) |
| Maternal Age | | | | |
| <20 Years | 32 | 687 | 8.9 | (5.8-13.4) |
| 20-29 Years | 219 | 4,523 | 7.5 | (6.7-8.4) |
| 30+ Years | 158 | 2,890 | 6.8 | (5.9-7.8) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 239 | 4,723 | 6.0 | (5.6-6.5) |
| Black, non-Hispanic | 117 | 2,247 | 11.0 | (9.9-12.3) |
| Hispanic | 23 | 494 | 8.4 | (5.2-13.4) |
| Asian/PI | 12 | 210 | 9.9 | (4.9-19.0) |
| American Indian | * | * | * | * |
| Other | 14 | 323 | 10.6 | (5.8-18.6) |
| Education | | | | |
| <High School | 39 | 1,138 | 8.7 | (6.1-12.1) |
| HS Grad/GED | 134 | 2,783 | 9.8 | (8.3-11.7) |
| Some College | 140 | 2,535 | 6.9 | (5.9-8.1) |
| College Degree+ | 94 | 1,581 | 5.0 | (4.1-6.0) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 62 | 1,272 | 7.1 | (5.4-9.2) |
| Medicaid/Public | 148 | 3,236 | 10.9 | (9.3-12.7) |
| Private | 181 | 3,177 | 5.3 | (4.8-6.0) |
| Other | 13 | 283 | 14.9 | (7.7-27.0) |
| Marital Status | | | | |
| Married | 209 | 3,619 | 5.7 | (5.2-6.3) |
| Other | 200 | 4,481 | 9.6 | (8.5-10.8) |
| Parity | | | | |
| 1 | 206 | 4,011 | 9.0 | (7.9-10.1) |
| 2+ | 200 | 4,019 | 6.2 | (5.5-7.0) |
| Last Year's Household Income | | | | |
| <\$15,000 | 126 | 2,749 | 9.4 | (7.9-11.3) |
| \$15,001-\$22,000 | 52 | 1,031 | 8.0 | (5.9-10.8) |
| \$22,001-\$37,000 | 47 | 980 | 6.3 | (4.6-8.6) |
| \$37,001-\$56,000 | 44 | 813 | 5.5 | (4.0-7.5) |
| \$56,001+ | 114 | 1,982 | 6.3 | (5.3-7.5) |

[^]Low birthweight infants are defined by the World Health Organization as infants weighing less than 2500 grams at birth.

*Data not shown due to small sample size.



Table 34. Distribution of low birthweight subcategories[^] among low birthweight infants, MI PRAMS, 2013

| Low Birthweight Subcategory | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|-----------------------------|------------------|--------------------|------------------|-------------------------|
| Total Prevalence | 409 | 8,101 | 100.0 | |
| Very low birthweight | 65 | 1,304 | 16.1 | (12.7-20.2) |
| Moderately low birthweight | 344 | 6,796 | 83.9 | (79.8-87.3) |

[^]Very low birthweight = birthweight < 1500g; moderately low birthweight = 1500g <= birthweight <2500g

Table 35. Prevalence of low birthweight[^] by smoking status during last three months of pregnancy, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Total | 404 | 7,965 | 7.3 | (7.0-7.5) |
| Smoking status | | | | |
| Did not smoke in last 3 months of pregnancy | 318 | 6,118 | 6.4 | (6.1-6.9) |
| Smoked last 3 months of pregnancy | 86 | 1,848 | 12.5 | (9.7-15.8) |

[^]Low birthweight infants are defined by the World Health Organization as infants weighing less than 2500 grams at birth.



Table 36. Prevalence of high birthweight[^] by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 116 | 11,222 | 10.2 | (8.3-12.4) |
| Maternal Age | | | | |
| <20 Years | * | * | * | * |
| 20-29 Years | 44 | 4,068 | 6.7 | (4.7-9.5) |
| 30+ Years | 70 | 6,790 | 16.1 | (12.6-20.3) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 77 | 9,904 | 12.6 | (10.1-15.6) |
| Black, non-Hispanic | 35 | 734 | 3.6 | (2.4-5.3) |
| Hispanic | * | * | * | * |
| Asian/Pacific Islander, non-Hispanic | * | * | * | * |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | * | * | * | * |
| Education | | | | |
| <High School | 15 | 1,847 | 14.1 | (7.9-23.7) |
| HS Grad/GED | 18 | 1,933 | 6.8 | (3.9-11.8) |
| Some College | 43 | 3,540 | 9.6 | (6.8-13.4) |
| College Degree+ | 40 | 3,901 | 12.3 | (9.0-16.7) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 16 | 2,344 | 13.0 | (7.8-20.9) |
| Medicaid/Public | 36 | 2,385 | 8.0 | (5.3-12.0) |
| Private | 62 | 6,315 | 10.6 | (8.2-13.7) |
| Other | * | * | * | * |
| Marital Status | | | | |
| Married | 75 | 7,590 | 11.9 | (9.4-15.1) |
| Other | 41 | 3,632 | 7.8 | (5.3-11.2) |
| Parity | | | | |
| 1 | 34 | 3,488 | 7.8 | (5.4-11.1) |
| 2+ | 82 | 7,734 | 12.0 | (9.4-15.2) |
| Last Year's Household Income | | | | |
| <\$15,000 | 27 | 2,108 | 7.2 | (4.4-11.6) |
| \$15,001-\$22,000 | 12 | 956 | 7.4 | (3.6-14.8) |
| \$22,001-\$37,000 | 17 | 1,916 | 12.3 | (7.4-19.8) |
| \$37,001-\$56,000 | 11 | 1,010 | 6.8 | (3.3-13.4) |
| \$56,001+ | 42 | 4,490 | 14.3 | (10.5-19.1) |

[^]High birthweight infants are defined by the World Health Organization as infants weighing more than 4000 grams at birth.

*Data not shown due to small sample size.



Table 37. Prevalence of high birthweight[^] by smoking status during the last three months of pregnancy, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Total | 116 | 11,222 | 10.2 | (8.3-12.5) |
| Smoking status | | | | |
| Did not smoke in last 3 months of pregnancy | 108 | 10,385 | 10.9 | (8.9-13.4) |
| Smoked last 3 months of pregnancy | 8 | 836 | 5.6 | (2.4-12.5) |

[^]High birthweight infants are defined by the World Health Organization as infants weighing more than 4000 grams at birth.



Table 38. Prevalence of preterm birth[^] by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 339 | 9,132 | 8.3 | (7.1-9.6) |
| Maternal Age | | | | |
| <20 Years | 30 | 700 | 9.1 | (5.8-13.8) |
| 20-29 Years | 172 | 5,071 | 8.4 | (6.7-10.5) |
| 30+ Years | 137 | 3,362 | 8.0 | (6.3-10.0) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 185 | 5,930 | 7.5 | (6.1-9.3) |
| Black, non-Hispanic | 120 | 2,201 | 10.8 | (9.0-12.9) |
| Hispanic | 14 | 315 | 5.4 | (3.0-9.4) |
| Asian/Pacific Islander, non-Hispanic | 6 | 109 | 5.2 | (2.1-12.2) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 11 | 500 | 16.3 | (7.2-32.9) |
| Education | | | | |
| <High School | 33 | 1,046 | 8.0 | (5.2-12.1) |
| HS Grad/GED | 110 | 3,024 | 10.7 | (8.0-14.2) |
| Some College | 115 | 2,784 | 7.6 | (5.8-9.8) |
| College Degree+ | 80 | 2,242 | 7.1 | (5.1-9.7) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 44 | 1,177 | 6.5 | (3.9-10.6) |
| Medicaid/Public | 124 | 3,229 | 10.9 | (8.5-13.9) |
| Private | 159 | 4,420 | 7.4 | (5.9-9.3) |
| Other | 11 | 280 | 14.8 | (6.5-30.2) |
| Marital Status | | | | |
| Married | 166 | 4,158 | 6.5 | (5.2-8.2) |
| Other | 173 | 4,974 | 10.6 | (8.6-13.0) |
| Parity | | | | |
| 1 | 164 | 4,532 | 10.1 | (8.1-12.6) |
| 2+ | 171 | 4,486 | 6.9 | (5.6-8.6) |
| Last Year's Household Income | | | | |
| <\$15,000 | 102 | 2,493 | 8.6 | (6.4-11.4) |
| \$15,001-\$22,000 | 39 | 798 | 6.2 | (3.9-9.8) |
| \$22,001-\$37,000 | 40 | 1,313 | 8.5 | (5.1-13.6) |
| \$37,001-\$56,000 | 34 | 1,218 | 8.2 | (5.0-13.3) |
| \$56,001+ | 97 | 2,525 | 8.0 | (6.1-10.6) |

[^]Preterm birth is defined by the World Health Organization as the birth of an infant before 37 weeks of pregnancy.

*Data not shown due to small sample size.



**Table 39. Distribution of infant birthweights and gestational ages[^],
 MI PRAMS, 2013**

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|-------------------------|---------------------------|-------------------------|--------------------------------|
| Infant both low birthweight and preterm | 271 | 5,294 | 4.8 | (4.4-5.2) |
| Infant low birthweight and term | 138 | 2,807 | 2.5 | (2.2-2.9) |
| Infant normal birthweight and preterm | 68 | 3,839 | 3.5 | (2.5-4.8) |
| Infant normal birthweight and term | 1,548 | 98,392 | 89.2 | (87.9-90.3) |

[^]Low birthweight infants are defined by the World Health Organization as infants weighing less than 2500 grams at birth; preterm birth is defined by the World Health Organization as the birth of an infant before 37 weeks of pregnancy.



Table 40. Prevalence of breastfeeding initiation by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 1,523 | 89,003 | 82.1 | (79.6-84.3) |
| Maternal Age | | | | |
| <20 Years | 127 | 5,426 | 63.2 | (51.7-73.4) |
| 20-29 Years | 829 | 46,213 | 79.9 | (76.3-83.0) |
| 30+ Years | 530 | 33,655 | 84.1 | (80.4-87.3) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 697 | 65,486 | 84.4 | (81.2-87.2) |
| Black, non-Hispanic | 704 | 13,733 | 69.3 | (65.8-72.7) |
| Hispanic | 56 | 5,228 | 91.3 | (80.9-96.2) |
| Asian/Pacific Islander, non-Hispanic | 23 | 1,619 | 77.6 | (48.2-92.8) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 40 | 2,674 | 91.4 | (76.9-97.1) |
| Education | | | | |
| <High School | 138 | 7,885 | 64.5 | (54.8-73.2) |
| HS Grad/GED | 376 | 20,458 | 73.6 | (67.8-78.7) |
| Some College | 565 | 30,452 | 83.6 | (79.5-87.0) |
| College Degree+ | 438 | 29,910 | 94.8 | (91.6-96.9) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 208 | 13,561 | 75.4 | (67.6-81.8) |
| Medicaid/Public | 498 | 20,401 | 71.8 | (66.7-76.3) |
| Private | 774 | 52,985 | 89.7 | (86.7-92.1) |
| Other | 28 | 1,119 | 65.0 | (40.6-83.4) |
| Marital Status | | | | |
| Married | 800 | 56,737 | 90.1 | (87.2-92.3) |
| Other | 723 | 32,266 | 71.0 | (66.6-75.0) |
| Parity | | | | |
| 1 | 662 | 36,926 | 83.9 | (79.8-87.3) |
| 2+ | 846 | 51,342 | 80.8 | (77.6-83.6) |
| Last Year's Household Income | | | | |
| <\$15,000 | 449 | 19,636 | 68.5 | (62.9-73.6) |
| \$15,001-\$22,000 | 199 | 9,863 | 78.3 | (70.0-84.8) |
| \$22,001-\$37,000 | 201 | 13,024 | 84.4 | (77.3-89.6) |
| \$37,001-\$56,000 | 194 | 13,276 | 90.1 | (83.1-94.4) |
| \$56,001+ | 397 | 28,781 | 92.1 | (88.6-94.6) |

*Data not shown due to small sample size.



**Table 41. Breastfeeding duration categories,
MI PRAMS, 2013**

| Breastfeeding duration categories | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|-------------------------|---------------------------|-------------------------|--------------------------------|
| Did not Breastfeed | 441 | 19,450 | 18.0 | (15.8-20.5) |
| Breastfed <1 Week | 86 | 3,557 | 3.3 | (2.4-4.6) |
| Breastfed >1 Week, but Stopped | 708 | 36,233 | 33.6 | (30.7-36.6) |
| Currently Breastfeeding | 711 | 48,524 | 45.0 | (42.0-48.1) |



Table 42. Median breastfeeding duration among women initiating breastfeeding by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Median (in weeks) | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|----------------------------|-------------------------|
| Total | 1,505 | 88,313 | 12.2 | (11.7-12.6) |
| Maternal Age | | | | |
| <20 Years | 111 | 5,199 | 4.0 | (3.2-8.5) |
| 20-29 Years | 807 | 46,421 | 11.7 | (10.7-12.3) |
| 30+ Years | 587 | 36,693 | 13.3 | (12.7-13.8) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 693 | 65,190 | 12.5 | (11.9-13.1) |
| Black, non-Hispanic | 690 | 13,454 | 8.5 | (8.1-8.9) |
| Hispanic | 55 | 5,097 | 9.0 | (8.2-13.4) |
| Asian/Pacific Islander, non-Hispanic | 24 | 1,637 | 14.3 | (9.3-16.3) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 40 | 2,674 | 12.2 | (5.3-13.9) |
| Education | | | | |
| <High School | 133 | 7,774 | 4.9 | (3.54-7.7) |
| HS Grad/GED | 371 | 20,192 | 10.3 | (8.1-11.8) |
| Some College | 556 | 30,271 | 12.1 | (10.5-12.8) |
| College Degree+ | 438 | 29,778 | 13.9 | (13.3-14.4) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 206 | 13,557 | 9.2 | (7.2-12.2) |
| Medicaid/Public | 491 | 20,195 | 5.9 | (3.9-8.4) |
| Private | 766 | 52,520 | 13.1 | (12.7-13.6) |
| Other | 27 | 1,105 | 13.3 | (5.83-15.3) |
| Marital Status | | | | |
| Married | 793 | 56,289 | 13.3 | (12.9-13.7) |
| Other | 712 | 32,024 | 7.9 | (5.1-8.6) |
| Parity | | | | |
| 1 | 656 | 36,752 | 11.4 | (10-12.3) |
| 2+ | 835 | 50,848 | 12.6 | (12-13.1) |
| Last Year's Household Income | | | | |
| <\$15,000 | 439 | 19,407 | 4.4 | (3.6-8.1) |
| \$15,001-\$22,000 | 198 | 9,858 | 11.2 | (8.4-12.6) |
| \$22,001-\$37,000 | 199 | 12,917 | 13.1 | (10.4-13.9) |
| \$37,001-\$56,000 | 192 | 13,143 | 12.6 | (11.7-13.4) |
| \$56,001+ | 395 | 28,588 | 13.4 | (12.8-14) |

*Data not shown due to small sample size.



**Table 43. Reasons for stopping breastfeeding,
MI PRAMS, 2013**

| Reasons (non-exclusive) | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Reason for Stopping Breastfeeding | | | | |
| Was not producing enough milk | 399 | 22,065 | 54.4 | (49.3-59.4) |
| Baby had difficulty nursing or latching | 267 | 14,152 | 34.9 | (30.2-39.9) |
| Breastmilk didn't satisfy baby | 224 | 13,177 | 32.5 | (27.8-37.5) |
| Too hard, painful, time consuming | 217 | 10,446 | 25.8 | (21.5-30.6) |
| Nipples were sore, cracked, or bleeding | 174 | 8,839 | 21.8 | (17.8-26.4) |
| Went back to work or school | 173 | 7,709 | 19.0 | (15.4-23.2) |
| Too many household duties | 115 | 5,236 | 12.9 | (9.9-16.7) |
| Baby was not gaining weight | 83 | 4,716 | 11.6 | (8.7-15.4) |
| Baby was jaundiced | 62 | 4,619 | 11.4 | (8.3-15.4) |
| It was right time to stop | 81 | 3,416 | 8.4 | (6.2-11.4) |
| I was sick | 47 | 2,451 | 6.0 | (4.0-9.0) |
| Other | 122 | 5,004 | 12.4 | (9.6-15.9) |

**Table 44. Distribution of WIC status during pregnancy,
MI PRAMS, 2013**

| WIC Status | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|------------------------------------|------------------|--------------------|------------------|-------------------------|
| WIC Status during pregnancy | | | | |
| No | 784 | 56,899 | 52.0 | (48.9-55.0) |
| Yes | 1,216 | 52,628 | 48.0 | (45.0-51.1) |

**Table 45. Primary infant sleep position,
MI PRAMS, 2013**

| Primary Infant Sleep Position | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|-------------------------------|------------------|--------------------|------------------|-------------------------|
| Back | 1,402 | 83,902 | 78.0 | (75.4-80.3) |
| Side | 252 | 11,169 | 10.4 | (8.7-12.4) |
| Stomach | 285 | 12,555 | 11.7 | (9.9-13.6) |



Table 46. Prevalence of infant back sleeping[^] position by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 1,402 | 83,902 | 78.0 | (75.4-80.3) |
| Maternal Age | | | | |
| <20 Years | 108 | 5,138 | 69.3 | (56.5-79.7) |
| 20-29 Years | 742 | 43,659 | 74.5 | (70.8-77.9) |
| 30+ Years | 552 | 35,105 | 84.4 | (80.6-87.5) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 660 | 63,011 | 81.6 | (78.3-84.5) |
| Black, non-Hispanic | 625 | 11,929 | 61.4 | (57.6-65.0) |
| Hispanic | 56 | 4,869 | 85.0 | (71.9-92.6) |
| Asian/Pacific Islander, non-Hispanic | 23 | 1,604 | 76.2 | (44.7-92.7) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 33 | 2,165 | 77.4 | (58.0-89.5) |
| Education | | | | |
| <High School | 164 | 8,616 | 71.8 | (62.0-79.8) |
| HS Grad/GED | 379 | 21,357 | 77.4 | (71.9-82.0) |
| Some College | 489 | 27,096 | 75.0 | (70.4-79.1) |
| College Degree+ | 364 | 26,429 | 84.1 | (79.8-87.6) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 201 | 14,145 | 79.6 | (72.3-85.4) |
| Medicaid/Public | 499 | 20,808 | 73.8 | (68.8-78.2) |
| Private | 651 | 46,999 | 80.1 | (76.7-83.2) |
| Other | 35 | 1,099 | 63.2 | (38.9-82.3) |
| Marital Status | | | | |
| Married | 682 | 51,244 | 81.8 | (78.5-84.7) |
| Other | 720 | 32,657 | 72.6 | (68.3-76.4) |
| Parity | | | | |
| 1 | 565 | 32,650 | 75.0 | (70.7-78.9) |
| 2+ | 824 | 50,473 | 79.9 | (76.6-82.8) |
| Last Year's Household Income | | | | |
| <\$15,000 | 464 | 21,062 | 74.2 | (69.0-78.7) |
| \$15,001-\$22,000 | 188 | 9,519 | 76.0 | (67.8-82.7) |
| \$22,001-\$37,000 | 172 | 12,216 | 79.2 | (71.9-84.9) |
| \$37,001-\$56,000 | 147 | 10,927 | 74.3 | (66.2-81.1) |
| \$56,001+ | 351 | 26,156 | 84.6 | (80.2-88.2) |

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

*Data not shown due to small sample size.



**Table 47. Prevalence of usual infant sleep practices,
 MI PRAMS, 2013**

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|-----------------------------|-------------------------------|-----------------------------|------------------------------------|
| Sleep Practice (non-exclusive) | | | | |
| Sleeps in crib | 1,685 | 94,877 | 88.6 | (86.6-90.4) |
| Sleeps on firm mattress | 1,453 | 85,469 | 81.7 | (79.2-83.9) |
| Sleeps with pillows* | 127 | 6,141 | 5.9 | (4.5-7.6) |
| Sleeps with bumper pads | 305 | 19,132 | 18.4 | (16.0-21.1) |
| Sleeps with blankets | 339 | 18,365 | 17.6 | (15.2-20.2) |
| Sleeps with toys* | 35 | 2,691 | 2.6 | (1.7-3.9) |
| Sleeps with an infant positioner* | 137 | 7,216 | 7.0 | (5.5-8.8) |
| Sleeps with mother or another person | 504 | 24,120 | 23.0 | (20.5-25.7) |

* These response options have too few respondents to warrant detailed demographic breakdown tables



Table 48. Prevalence of infant usually sleeping in a crib by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 1,685 | 94,877 | 88.6 | (86.6-90.4) |
| Maternal Age | | | | |
| <20 Years | 136 | 6,497 | 87.8 | (76.2-94.2) |
| 20-29 Years | 926 | 50,794 | 87.2 | (84.3-89.7) |
| 30+ Years | 623 | 37,586 | 90.8 | (87.5-93.2) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 720 | 69,316 | 90.1 | (87.4-92.2) |
| Black, non-Hispanic | 839 | 16,106 | 82.3 | (79.2-85.1) |
| Hispanic | 58 | 5,033 | 92.1 | (80.4-97.0) |
| Asian/Pacific Islander, non-Hispanic | 22 | 1,731 | 82.9 | (52.8-95.5) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 40 | 2,342 | 87.9 | (67.0-96.3) |
| Education | | | | |
| <High School | 212 | 10,663 | 89.2 | (81.5-94.0) |
| HS Grad/GED | 476 | 24,324 | 89.7 | (85.1-93.0) |
| Some College | 582 | 31,344 | 86.4 | (82.6-89.4) |
| College Degree+ | 408 | 28,118 | 90.0 | (86.2-92.9) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 229 | 15,139 | 87.4 | (81.2-91.8) |
| Medicaid/Public | 637 | 24,511 | 87.5 | (83.5-90.6) |
| Private | 753 | 52,509 | 89.4 | (86.5-91.7) |
| Other | 44 | 1,534 | 88.2 | (62.5-97.1) |
| Marital Status | | | | |
| Married | 781 | 55,813 | 89.6 | (86.7-91.9) |
| Other | 904 | 39,064 | 87.3 | (84.1-89.9) |
| Parity | | | | |
| 1 | 685 | 38,721 | 89.1 | (85.8-91.7) |
| 2+ | 984 | 55,282 | 88.1 | (85.3-90.5) |
| Last Year's Household Income | | | | |
| <\$15,000 | 594 | 24,622 | 87.2 | (83.1-90.5) |
| \$15,001-\$22,000 | 231 | 11,206 | 90.1 | (83.9-94.1) |
| \$22,001-\$37,000 | 205 | 13,480 | 88.2 | (81.7-92.6) |
| \$37,001-\$56,000 | 165 | 11,935 | 81.7 | (74.0-87.4) |
| \$56,001+ | 399 | 29,220 | 93.8 | (90.6-96.0) |

*Data not shown due to small sample size.



Table 49. Prevalence of infant usually sleeping on a firm mattress by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 1,453 | 85,469 | 81.7 | (79.2-83.9) |
| Maternal Age | | | | |
| <20 Years | 94 | 5,385 | 73.5 | (61.8-82.7) |
| 20-29 Years | 800 | 46,231 | 81.2 | (77.8-84.2) |
| 30+ Years | 559 | 33,852 | 83.8 | (79.8-87.2) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 668 | 64,446 | 85.8 | (82.8-88.4) |
| Black, non-Hispanic | 679 | 13,193 | 69.0 | (65.4-72.5) |
| Hispanic | 51 | 4,416 | 78.7 | (63.6-88.6) |
| Asian/Pacific Islander, non-Hispanic | 15 | 1,122 | 56.7 | (31.4-78.9) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 35 | 1,968 | 79.6 | (58.9-91.4) |
| Education | | | | |
| <High School | 154 | 8,712 | 76.6 | (68.2-83.3) |
| HS Grad/GED | 368 | 20,055 | 75.4 | (69.4-80.5) |
| Some College | 531 | 28,807 | 81.5 | (77.2-85.1) |
| College Degree+ | 394 | 27,597 | 89.6 | (85.6-92.6) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 198 | 13,017 | 76.3 | (68.5-82.6) |
| Medicaid/Public | 489 | 19,693 | 72.9 | (67.8-77.5) |
| Private | 718 | 50,604 | 87.6 | (84.5-90.2) |
| Other | 34 | 1,204 | 77.4 | (55.5-90.4) |
| Marital Status | | | | |
| Married | 717 | 51,930 | 85.5 | (82.3-88.2) |
| Other | 736 | 33,539 | 76.4 | (72.4-80.0) |
| Parity | | | | |
| 1 | 599 | 35,263 | 83.3 | (79.5-86.5) |
| 2+ | 844 | 49,582 | 80.7 | (77.3-83.7) |
| Last Year's Household Income | | | | |
| <\$15,000 | 442 | 19,539 | 71.2 | (65.7-76.2) |
| \$15,001-\$22,000 | 197 | 9,785 | 81.3 | (73.6-87.1) |
| \$22,001-\$37,000 | 197 | 12,684 | 85.8 | (79.1-90.7) |
| \$37,001-\$56,000 | 176 | 12,337 | 86.0 | (78.6-91.1) |
| \$56,001+ | 371 | 27,240 | 89.3 | (85.2-92.4) |

*Data not shown due to small sample size.



Table 50. Prevalence of infant usually sleeping with bumper pads by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 305 | 19,132 | 18.4 | (16.0-21.1) |
| Maternal Age | | | | |
| <20 Years | 25 | 2,229 | 30.5 | (18.7-45.5) |
| 20-29 Years | 173 | 9,875 | 17.5 | (14.4-21.1) |
| 30+ Years | 107 | 7,027 | 17.5 | (13.9-21.7) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 135 | 14,238 | 19.0 | (16.0-22.5) |
| Black, non-Hispanic | 146 | 2,740 | 14.4 | (12.0-17.3) |
| Hispanic | 12 | 1,074 | 19.6 | (10.4-34.0) |
| Asian/Pacific Islander, non-Hispanic | 7 | 737 | 35.6 | (16.0-61.5) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | * | * | * | * |
| Education | | | | |
| <High School | 38 | 2,487 | 22.3 | (14.4-33.0) |
| HS Grad/GED | 78 | 4,735 | 18.2 | (13.4-24.3) |
| Some College | 120 | 7,467 | 21.0 | (16.9-25.7) |
| College Degree+ | 67 | 4,272 | 13.8 | (10.3-18.3) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 41 | 2,903 | 17.2 | (11.6-24.9) |
| Medicaid/Public | 97 | 4,103 | 15.4 | (11.3-20.6) |
| Private | 158 | 11,951 | 20.7 | (17.3-24.5) |
| Other | 7 | 126 | 7.4 | (2.7-18.5) |
| Marital Status | | | | |
| Married | 149 | 10,652 | 17.6 | (14.6-21.1) |
| Other | 156 | 8,480 | 19.4 | (15.6-23.9) |
| Parity | | | | |
| 1 | 126 | 8,822 | 21.0 | (17.0-25.8) |
| 2+ | 175 | 10,080 | 16.5 | (13.6-19.8) |
| Last Year's Household Income | | | | |
| <\$15,000 | 86 | 4,288 | 15.5 | (11.3-20.9) |
| \$15,001-\$22,000 | 39 | 2,016 | 17.0 | (10.7-26.0) |
| \$22,001-\$37,000 | 51 | 3,370 | 23.3 | (16.4-32.0) |
| \$37,001-\$56,000 | 34 | 2,625 | 18.5 | (12.6-26.3) |
| \$56,001+ | 71 | 5,363 | 17.5 | (13.5-22.5) |

*Data not shown due to small sample size.



Table 51. Prevalence of infant usually sleeping with blankets by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 339 | 18,365 | 17.6 | (15.2-20.2) |
| Maternal Age | | | | |
| <20 Years | 39 | 2,385 | 32.6 | (20.7-47.1) |
| 20-29 Years | 191 | 9,642 | 17.0 | (14.0-20.5) |
| 30+ Years | 109 | 6,339 | 15.7 | (12.4-19.8) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 123 | 12,501 | 16.7 | (13.8-20.0) |
| Black, non-Hispanic | 191 | 3,725 | 19.5 | (16.6-22.6) |
| Hispanic | 9 | 943 | 17.2 | (7.9-33.6) |
| Asian/Pacific Islander, non-Hispanic | 9 | 874 | 42.2 | (20.8-67.0) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 7 | 322 | 13.8 | (4.7-33.9) |
| Education | | | | |
| <High School | 52 | 3,252 | 28.7 | (19.6-39.7) |
| HS Grad/GED | 108 | 5,484 | 20.9 | (16.0-27.0) |
| Some College | 121 | 6,142 | 17.3 | (13.7-21.7) |
| College Degree+ | 56 | 3,210 | 10.4 | (7.5-14.2) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 46 | 3,045 | 18.0 | (12.1-25.9) |
| Medicaid/Public | 139 | 5,631 | 21.0 | (16.4-26.5) |
| Private | 140 | 9,304 | 16.1 | (13.1-19.6) |
| Other | 9 | 163 | 9.6 | |
| Marital Status | | 9 | 163 | 9.6 |
| Married | 148 | 10,624 | 17.4 | (14.4-21.0) |
| Other | 191 | 7,741 | 17.8 | (14.3-22.0) |
| Parity | | | | |
| 1 | 153 | 8,117 | 19.4 | (15.6-23.9) |
| 2+ | 183 | 10,060 | 16.3 | (13.4-19.7) |
| Last Year's Household Income | | | | |
| <\$15,000 | 132 | 5,412 | 19.6 | (15.2-25.0) |
| \$15,001-\$22,000 | 43 | 2,292 | 19.0 | (12.4-28.0) |
| \$22,001-\$37,000 | 35 | 2,378 | 16.6 | (10.8-24.7) |
| \$37,001-\$56,000 | 39 | 1,733 | 12.1 | (7.6-18.9) |
| \$56,001+ | 71 | 5,388 | 17.5 | (13.4-22.5) |

*Data not shown due to small sample size.



Table 52. Prevalence of infant usually sleeping with mother or another person by maternal characteristics, MI PRAMS, 2013

| Characteristic | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---------------------------------------|------------------|--------------------|------------------|-------------------------|
| Total | 504 | 24,120 | 23.0 | (20.5-25.7) |
| Maternal Age | | | | |
| <20 Years | 43 | 1,832 | 24.8 | (15.0-38.1) |
| 20-29 Years | 306 | 14,665 | 25.6 | (22.2-29.4) |
| 30+ Years | 155 | 7,622 | 18.9 | (15.4-23.0) |
| Race/Ethnicity | | | | |
| White, non-Hispanic | 152 | 15,024 | 20.0 | (17.0-23.3) |
| Black, non-Hispanic | 320 | 6,315 | 32.7 | (29.3-36.4) |
| Hispanic | 12 | 1,254 | 22.9 | (12.1-39.1) |
| Asian/Pacific Islander, non-Hispanic | 10 | 915 | 43.8 | (22.2-68.0) |
| American Indian, non-Hispanic | * | * | * | * |
| Other, non-Hispanic | 10 | 612 | 25.2 | (11.3-47.2) |
| Education | | | | |
| <High School | 56 | 2,770 | 24.3 | (16.5-34.3) |
| HS Grad/GED | 129 | 5,073 | 19.0 | (14.6-24.5) |
| Some College | 211 | 9,683 | 27.3 | (23.0-32.1) |
| College Degree+ | 107 | 6,550 | 21.2 | (17.0-26.0) |
| Pre-Pregnancy Insurance Status | | | | |
| Uninsured | 81 | 4,509 | 26.2 | (19.6-34.0) |
| Medicaid/Public | 185 | 5,888 | 21.7 | (17.5-26.5) |
| Private | 219 | 12,803 | 22.2 | (18.9-25.9) |
| Other | 15 | 619 | 38.0 | (19.1-61.5) |
| Marital Status | | | | |
| Married | 205 | 12,995 | 21.3 | (18.1-24.9) |
| Other | 299 | 11,125 | 25.3 | (21.5-29.5) |
| Parity | | | | |
| 1 | 221 | 10,500 | 24.6 | (20.7-29.0) |
| 2+ | 277 | 13,233 | 21.5 | (18.4-25.0) |
| Last Year's Household Income | | | | |
| <\$15,000 | 179 | 6,394 | 23.0 | (18.5-28.1) |
| \$15,001-\$22,000 | 69 | 2,767 | 22.9 | (16.2-31.4) |
| \$22,001-\$37,000 | 72 | 3,635 | 24.8 | (18.1-33.1) |
| \$37,001-\$56,000 | 79 | 4,475 | 31.2 | (23.8-39.6) |
| \$56,001+ | 76 | 4,791 | 15.7 | (12.2-20.1) |

*Data not shown due to small sample size.



Table 53. Prevalence of life stressors experienced by mothers, MI PRAMS, 2013

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Life Stressors (non-exclusive) | | | | |
| I moved to a new address | 783 | 41,096 | 37.5 | (34.5-40.5) |
| A close family member was very sick and had to go to the hospital | 586 | 30,497 | 27.8 | (25.1-30.6) |
| I argued with my husband or partner more than usual | 589 | 25,761 | 23.6 | (21.1-26.3) |
| I had problems paying the rent, mortgage, or other bills | 459 | 24,838 | 22.6 | (20.1-25.4) |
| Someone very close to me died | 483 | 22,412 | 20.4 | (18.1-23.0) |
| My husband, partner, or I had a cut in work hours or pay | 355 | 19,498 | 17.8 | (15.5-20.4) |
| Someone very close to me had a problems with drinking or drugs | 254 | 14,526 | 13.2 | (11.3-15.5) |
| My husband or partner lost his job | 244 | 13,768 | 12.6 | (10.6-14.9) |
| I lost my job even though I wanted to go on working | 275 | 12,440 | 11.4 | (9.6-13.5) |
| My husband or partner said he didn't want me to be pregnant | 215 | 10,044 | 9.2 | (7.6-11.1) |
| I got divorced or separated from my husband or partner | 202 | 9,168 | 8.4 | (6.8-10.2) |
| I was apart from my husband or partner due to military deployment or extended work-related travel | 85 | 5,209 | 4.8 | (3.6-6.2) |
| My husband, partner, or I went to jail | 145 | 4,809 | 4.4 | (3.4-5.7) |
| I was homeless or had to sleep outside, in a car, or in a shelter | 84 | 2,625 | 2.4 | (1.7-3.3) |



Table 54. Number of life stressors experienced by mothers, MI PRAMS, 2013

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|----|------------------|--------------------|------------------|-------------------------|
| 0 | 422 | 27,283 | 24.8 | (22.3-27.6) |
| 1 | 417 | 23,291 | 21.2 | (18.8-23.8) |
| 2 | 357 | 20,129 | 18.3 | (16.0-20.9) |
| 3 | 295 | 15,262 | 13.9 | (11.9-16.2) |
| 4 | 208 | 9,217 | 8.4 | (6.8-10.3) |
| 5 | 120 | 5,955 | 5.4 | (4.2-7.0) |
| 6 | 78 | 3,989 | 3.6 | (2.6-5.0) |
| 7 | 49 | 2,253 | 2.1 | (1.3-3.2) |
| 8+ | 56 | 2,462 | 3.0 | (2.0-4.4) |

Table 55. Prevalence of intimate partner violence by time period, MI PRAMS, 2013

| Time Period of Abuse | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--------------------------------|------------------|--------------------|------------------|-------------------------|
| 12 months before conception | 72 | 2,687 | 2.4 | (1.7-3.5) |
| During pregnancy | 78 | 3,336 | 3.0 | (2.2-4.3) |
| Before and/or during pregnancy | 103 | 4,050 | 3.7 | (2.7-5.0) |

Table 56. Perceived neighborhood safety experienced by mothers during pregnancy, MI PRAMS, 2013

| Neighborhood Safety | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| During the 12 months before your baby was born did you feel unsafe in the neighborhood where you lived? | | | | |
| Always | 51 | 2,252 | 2.1 | (1.4-3.0) |
| Often | 48 | 2,141 | 2.0 | (1.3-3.0) |
| Sometimes | 163 | 6,260 | 5.7 | (4.6-7.1) |
| Rarely | 311 | 16,496 | 15.1 | (13.0-17.4) |
| Never | 1,427 | 82,408 | 75.2 | (72.5-77.7) |



**Table 57. Reactions to racism during pregnancy,
 MI PRAMS, 2013**

| Reactions | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|------------------|--------------------|------------------|-------------------------|
| Types of reaction (non-exclusive) | | | | |
| I felt that my race or ethnic background contributed to the stress in my life | | | | |
| Yes | 76 | 2,289 | 2.1 | (1.5-3.0) |
| I felt emotionally upset (for example, angry, sad, or frustrated) as a result of how I was treated based on my race or ethnic background | | | | |
| Yes | 98 | 3,072 | 2.8 | (2.0-3.9) |
| I experienced physical symptoms (for example, a headache, an upset stomach, or a pounding heart) that I felt were related to how I was treated based on my race or ethnic background | | | | |
| Yes | 48 | 1,538 | 1.4 | (0.9-2.1) |



**Table 58. Infant insurance status at time of survey,
MI PRAMS, 2013**

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|-----------------------------|-------------------------------|-----------------------------|------------------------------------|
| Insurance status | | | | |
| Covered by private health insurance | 738 | 51,848 | 47.9 | (44.8-51.0) |
| Covered by Medicaid or other public insurance | 1,143 | 53,140 | 49.1 | (46.0-52.2) |
| Covered by health insurance from other source | 61 | 1,958 | 1.8 | (1.3-2.5) |
| Not covered by any health insurance | 18 | 1,290 | 1.2 | (0.6-2.2) |

**Table 59. Mother insurance status at time of survey,
MI PRAMS, 2013**

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|-----------------------------|-------------------------------|-----------------------------|------------------------------------|
| Insurance status | | | | |
| Covered by private health insurance | 953 | 61,742 | 57.0 | (54.0-60.0) |
| Covered by Medicaid or other public insurance | 810 | 32,580 | 30.1 | (27.4-32.9) |
| Not covered by any health insurance | 217 | 13,941 | 12.9 | (10.8-15.3) |



**Table 60. Post-partum checkup for mother,
MI PRAMS, 2013**

| | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|---------------------|-----------------------|---------------------|----------------------------|
| Since your new baby was born, have you had a postpartum check-up for yourself? | | | | |
| Yes | 1,779 | 99,156 | 91.1 | (89.2-92.6) |

**Table 61. Post-partum depression symptoms,
MI PRAMS, 2013**

| Experience | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|--|---------------------|-----------------------|---------------------|----------------------------|
| Since new baby was born, number of mothers reporting... | | | | |
| <i>Feeling down, depressed, or hopeless</i> | | | | |
| Never | 783 | 40,309 | 37.1 | (34.1-40.1) |
| Rarely | 594 | 37,469 | 34.4 | (31.5-37.5) |
| Sometimes | 435 | 23,401 | 21.5 | (19.0-24.2) |
| Often | 135 | 6,046 | 5.6 | (4.3-7.1) |
| Always | 43 | 1,547 | 1.4 | (0.9-2.3) |
| <i>Having little or no pleasure in doing things</i> | | | | |
| Never | 786 | 42,357 | 38.9 | (35.9-41.9) |
| Rarely | 590 | 36,974 | 33.9 | (31.0-37.0) |
| Sometimes | 396 | 18,919 | 17.4 | (15.1-19.9) |
| Often | 140 | 7,184 | 6.6 | (5.2-8.3) |
| Always | 81 | 3,519 | 3.2 | (2.3-4.5) |
| Mothers reporting significant post-partum depression** | 315 | 14,486 | 13.3 | (11.4-15.6) |

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



Table 62. Prevalence of working at a job for pay during pregnancy, MI PRAMS, 2013

| Experience | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Total | 1,982 | 108,554 | 100.0 | |
| Mother did not work at a job for pay during pregnancy | 734 | 40,390 | 37.2 | (34.2-40.3) |
| Mother worked at a job for pay during pregnancy | 1,248 | 68,165 | 62.8 | (59.7-65.8) |

Table 63. Prevalence of post-pregnancy workplace leave among Michigan mothers who worked at a job for pay during pregnancy, MI PRAMS, 2013

| Experience | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Total | 1,198 | 65,911 | 100.0 | |
| Took only unpaid leave from work following pregnancy | 657 | 34,620 | 52.5 | (48.5-56.5) |
| Took only paid leave from work following pregnancy | 289 | 17,337 | 26.3 | (23.0-30.0) |
| Took a combination of paid and unpaid leave from work following pregnancy | 133 | 8,958 | 13.6 | (11.1-16.5) |
| Took no leave from work following pregnancy, paid or unpaid | 119 | 4,995 | 7.6 | (5.8-9.9) |



Table 64. Prevalence of home visiting program participation, MI PRAMS, 2013

| Experience | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Home visitor visit during pregnancy to prepare for baby | 449 | 14,700 | 13.4 | (11.7-15.5) |
| Home visitor visit after pregnancy to help learn how to take care of self or new baby | 553 | 20,177 | 18.7 | (16.5-21.1) |

Table 65. Family history of chronic disease among Michigan mothers, MI PRAMS, 2013

| Chronic Disease | Sample Frequency | Weighted Frequency | Weighted Percent | 95% Confidence Interval |
|---|------------------|--------------------|------------------|-------------------------|
| Have any of your close family members related to you by blood (mother, father, sisters or brothers) had any of the following conditions? | | | | |
| Diabetes | 781 | 39,033 | 37.4 | (34.4-40.6) |
| Heart attack before 55 years age | 293 | 15,035 | 14.9 | (12.7-17.4) |
| High blood pressure (hypertension) | 1,176 | 60,478 | 58.4 | (55.2-61.6) |
| Breast cancer before 50 years of age | 211 | 10,783 | 10.5 | (8.6-12.6) |
| Ovarian cancer | 136 | 8,478 | 8.3 | (6.6-10.3) |



APPENDIX

Comparison of MI PRAMS 2013 Data Tables to MI PRAMS 2010 Data Tables

| MI PRAMS 2013 Table | MI PRAMS 2010 Table |
|--|---|
| Table 1. Distribution of selected maternal characteristics | Table 1. Distribution of selected maternal demographics |
| Table 2. Distribution of pre-pregnancy maternal body mass index categories | Table 2. Distribution of preconception maternal body mass index categories |
| Table 3. Prevalence of pre-pregnancy underweight BMI by maternal characteristics | Table 3. Prevalence of preconception underweight BMI by maternal demographics |
| Table 4. Prevalence of pre-pregnancy normal weight BMI by maternal characteristics | Table 4. Prevalence of preconception normal weight BMI by maternal demographics |
| Table 5. Prevalence of pre-pregnancy overweight BMI by maternal characteristics | Table 5. Prevalence of preconception overweight BMI by maternal demographics |
| Table 6. Prevalence of pre-pregnancy obese BMI by maternal characteristics | Table 6. Prevalence of preconception obese BMI by maternal demographics |
| Table 7. Prevalence of selected 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 pre-pregnancy discussions with health care provider about improving mother's health by maternal characteristics <i>*Direct comparison not possible between survey phases</i> | Table 8*. Prevalence of preconception health counseling from a health care worker by maternal demographics <i>*Direct comparison not possible between survey phases</i> |
| Table 9. Prevalence of topics discussed by health care provider among women reporting any pre-pregnancy counseling | Table 9. Prevalence of topics discussed by health care provider among women reporting preconception counseling |
| Table 10. Prevalence of behaviors during the 12 months before pregnancy | Table 10. Prevalence of preconception behaviors during 12 months before pregnancy |
| Table 11. Distribution of pregnancy intention categories | Table 12a. Distribution of pregnancy intention categories and unintended subtypes |
| Table 12*. Distribution of unintended pregnancy subtypes among women reporting either unsure or unintended pregnancy <i>*Direct comparison not possible between survey phases</i> | Table 12b*. Distribution of unintended pregnancy subtypes among women reporting unintended pregnancy <i>*Direct comparison not possible between survey phases</i> |
| Table 13. Prevalence of unintended pregnancy by maternal characteristics | Table 11. Prevalence of unintended pregnancy by maternal demographics |
| Table 14. Characteristics of women trying to conceive during the pre-pregnancy periods | Table 14. Prevalence of trying to conceive during preconception period by maternal demographics |
| Table 15. Prevalence of women who became pregnant despite using contraceptive practices | Table 15. Prevalence of avoiding pregnancy during preconception period by maternal demographics |
| Table 16. Prevalence of women who were not trying to conceive but were not doing anything to prevent pregnancy by maternal characteristics | Table 16. Prevalence of neither avoiding pregnancy nor trying to conceive during preconception period by maternal demographics |



| MI PRAMS 2013 Table | MI PRAMS 2010 Table |
|---|---|
| Table 17. Reasons women who were not trying to conceive but were not doing anything to prevent pregnancy did not use contraception | Table 18. Reasons given for not using pregnancy prevention method by those neither avoiding or trying to conceive during the preconception period |
| Table 18. Prevalence of using any postpartum pregnancy prevention method by maternal characteristics | Table 19. Prevalence of using any postpartum pregnancy prevention method by maternal demographics |
| Table 19. Prevalence of postpartum contraceptive methods | Table 21. Prevalence of postpartum pregnancy prevention methods |
| Table 20. Reasons for not using postpartum contraceptive methods | Table 20. Reasons for not using postpartum pregnancy prevention method |
| Table 21. Trimester of entry into prenatal care | Table 24. Trimester of entry into prenatal care |
| Table 22. Prevalence of getting prenatal care as early as wanted | Table 25. Prevalence of getting prenatal care as early as wanted |
| Table 23. Source of prenatal care payment | Table 28. Source of prenatal care payment |
| Table 24. Prevalence of first trimester entry into prenatal care by maternal characteristics, MI PRAMS | Table 23. Prevalence of first trimester entry into prenatal care by maternal demographics |
| Table 25. Prevalence of topics discussed by health care provider during prenatal care visits | Table 29. Prevalence of prenatal counseling topics covered by health care provider |
| Table 26. Prevalence of HIV testing and prenatal care discussions about HIV testing | Table 30. Prevalence of HIV testing and counseling about HIV testing |
| Table 27**. Prevalence of oral health related opinions and practices during pregnancy **New topic on Survey Phase 7 | **New topic on Survey Phase 7 |
| Table 28. Drinking behavior during last three months of pregnancy compared to preconception behavior | Table 34. Drinking behavior during last three months of pregnancy compared to preconception behavior |
| Table 29. Smoking behavior during the last three months of pregnancy compared to preconception behavior | Table 32. Smoking behavior during last three months of pregnancy compared to preconception behavior |
| Table 30. Prevalence of smoking during the last three months of pregnancy by maternal characteristics | Table 31. Prevalence of smoking during last three months of pregnancy by maternal demographics |
| Table 31 [^] . Distribution of delivery methods [^] Topic available but not reported in Phase 6 tables | [^] Topic available but not reported in Phase 6 tables |
| Table 32 [^] . Distribution of and reasons for labor induction [^] Topic available but not reported in Phase 6 tables | [^] Topic available but not reported in Phase 6 tables |
| Table 33. Prevalence of low birthweight by maternal characteristics | Table 35. Prevalence of low birthweight by maternal demographics |
| Table 34. Distribution of low birthweight subcategories among low birthweight infants | Table 36. Distribution of low birthweight subcategories among infants with LBW |
| Table 35. Prevalence of low birthweight by smoking status during last three months of pregnancy | Table 37. Prevalence of low birthweight by smoking status during last three months of pregnancy |



| MI PRAMS 2013 Table | MI PRAMS 2010 Table |
|--|---|
| Table 36 [^] . Prevalence of high birthweight by maternal characteristics <i>^ Topic available but not reported in Phase 6 tables</i> | <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 37 [^] . Prevalence of high birthweight by smoking status during the last three months of pregnancy <i>^ Topic available but not reported in Phase 6 tables</i> | <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 38. Prevalence of preterm birth by maternal characteristics | Table 38. Prevalence of preterm birth by maternal demographics |
| Table 39. Distribution of infant birthweights and gestational ages | Table 39. Prevalence of infant born at both low birthweight and preterm |
| Table 40. Prevalence of breastfeeding initiation by maternal characteristics | Table 40. Prevalence of breastfeeding initiation by maternal demographics |
| Table 41. Breastfeeding duration categories | Table 41. Breastfeeding duration categories |
| Table 42. Median breastfeeding duration among women initiating breastfeeding by demographic characteristics | Table 42. Median breastfeeding duration among women initiating breastfeeding by demographic characteristics |
| Table 43 [^] . Reasons for stopping breastfeeding <i>^ Topic available but not reported in Phase 6 tables</i> | <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 44. Distribution of WIC status during pregnancy | Table 44. Distribution of WIC status during pregnancy |
| Table 45 [^] . Primary infant sleep position <i>^ Topic available but not reported in Phase 6 tables</i> | <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 46. Prevalence of infant back sleeping position by maternal characteristics | Table 45. Prevalence of infant back sleeping position by maternal demographics |
| Table 47. Prevalence of usual infant sleep practices | Table 46. Prevalence of usual infant sleep practices |
| Table 48. Prevalence of infant usually sleeping on a crib by maternal characteristics | Table 48. Prevalence of infant usually sleeping on a crib by maternal demographics |
| Table 49. Prevalence of infant usually sleeping on a firm mattress by maternal characteristics | Table 47. Prevalence of usual infant usually sleeping on a firm mattress by maternal demographics |
| Table 50. Prevalence of infant sleeping with bumper pads by maternal characteristics | Table 50. Prevalence of infant sleeping with bumper pads by maternal demographics |
| Table 51. Prevalence of infant usually sleeping with blankets by maternal characteristics | Table 51. Prevalence of infant usually sleeping with blankets by maternal demographics |
| Table 52*. Prevalence of infant usually sleeping with mother or another person by maternal characteristics <i>*Direct comparison not possible between survey phases</i> | Table 52*. Prevalence of infant usually sleeping with another person by maternal characteristics <i>*Direct comparison not possible between survey phases</i> |
| Table 53 [^] . Prevalence of life stressors experienced by mothers <i>^ Topic available but not reported in Phase 6 tables</i> | <i>^ Topic available but not reported in Phase 6 tables</i> |



| MI PRAMS 2013 Table | MI PRAMS 2010 Table |
|--|---|
| Table 54 [^] . Number of life stressors experienced by mothers <i>^ Topic available but not reported in Phase 6 tables</i> | <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 55. Prevalence of intimate partner violence by time period | Table 22. Prevalence of intimate partner violence by time period |
| Table 56 [^] . Perceived neighborhood safety experienced by mothers during pregnancy <i>^ Topic available but not reported in Phase 6 tables</i> | <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 57 ^{**} . Reactions to racism during pregnancy <i>** New topic on survey Phase 7</i> | <i>** New topic on survey Phase 7</i> |
| Table 58 [^] . Infant insurance status at time of survey <i>*Direct comparison not possible between survey phases</i> <i>^ Topic available but not reported in Phase 6 tables</i> | <i>*Direct comparison not possible between survey phases</i> <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 59 ^{**} . Mother insurance status at time of survey <i>** New topic on survey Phase 7</i> | <i>** New topic on survey Phase 7</i> |
| Table 60. Post-partum checkup for mother <i>** New topic on survey Phase 7</i> | <i>** New topic on survey Phase 7</i> |
| Table 61 [^] . Post-partum depression symptoms <i>*Direct comparison not possible between survey phases</i> <i>^ Topic available but not reported in Phase 6 tables</i> | <i>*Direct comparison not possible between survey phases</i> <i>^ Topic available but not reported in Phase 6 tables</i> |
| Table 62 ^{**} . Prevalence of working at a job for pay during pregnancy <i>** New topic on survey Phase 7</i> | <i>** New topic on survey Phase 7</i> |
| Table 63 ^{**} . Prevalence of post-pregnancy workplace leave among Michigan mothers who worked at a job for pay during pregnancy <i>** New topic on survey Phase 7</i> | <i>** New topic on survey Phase 7</i> |
| Table 64 ^{**} . Prevalence of home visiting program participation <i>** New topic on survey Phase 7</i> | <i>** New topic on survey Phase 7</i> |
| Table 65 ^{**} . Family history of chronic disease among Michigan mothers <i>** New topic on survey Phase 7</i> | <i>**New topic on survey Phase 7</i> |

*2010 Tables available at
http://www.michigan.gov/documents/mdch/MI_PRAMS_2010_Preliminary_Tables_Final_435536_7.pdf