

MISSISSIPPI STATE DEPARTMENT OF HEALTH

PRAMS

Pregnancy
Risk
Assessment
Monitoring
System

2009

Surveillance Report Brief



Acknowledgments

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Sources for more information:

CDC PRAMS provides more information about PRAMS on its website, <http://www.cdc.gov/prams>

Introduction

The Pregnancy Risk Assessment Monitoring System (PRAMS) project is led by the Centers for Disease Control and Prevention (CDC) in collaboration with state health departments. The goal of this project is to improve the health outcomes of mothers and infants. State-specific findings describe maternal experiences and behaviors during the time before pregnancy through the months just after delivery. Reports are used to plan and evaluate health programs, to inform policymakers, and the general public. MS PRAMS addresses several Title V Maternal and Child Health priorities that include factors related to low birth weight or infant mortality, access to pediatric care, teen births, and unhealthy behaviors among pregnant teenagers, including cigarette smoking.

Responses to questions are given for all women with recent births. Methods are explained in the Appendix, including guidelines for interpreting the report. The topics on this Surveillance Report Brief are covered in the following sections:

1. Alcohol and drug use
2. Low birth weight, preterm birth and preconception care
3. Nutrition and physical activity
4. Sexually transmitted disease
5. Teen pregnancy and teen birth rate
6. Violence
7. Infant feeding and care
8. Delivery or pregnancy history
9. Mental health
10. Maternal morbidity
11. Demographics/ Socioeconomic Status
12. Miscellaneous

Interpretation of text and tables

The PRAMS survey requires special weighted calculations to account for the survey design and present population level estimates for all Mississippi resident women with an in-state live birth in 2009 (not just the respondents). This does not include mothers who are excluded according to CDC protocol guidelines: out of state out of state births to residents, in state births to nonresidents, infants whose birth certificates lack the mother's last name, birth certificates that are processed too late after the birth occurred (more than six months afterwards), multiple gestation infants, adopted infants, and surrogate births.

Because of the survey design, we report a margin of error, the 95% confidence interval (CI). Categories of maternal characteristics that have non-overlapping 95% CIs are statistically significant different from each other. This test of significance can be used to describe findings for each PRAMS item questionnaires.

Phase 6 Survey Legends

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| 32a | Alcohol per week, 3 months before pregnancy | 12 |
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| 53 | Reasons for not doing anything now to prevent pregnancy before pregnancy | 18 |
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| 54 | Depression symptoms after pregnancy | 19 |
| 59 | UTI, STDs, vaginal infection (include <i>Bacterial Vaginosis</i> or group B Streptococcus) during most recent pregnancy | 21 |
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Before pregnancy

1. At any time during the 12 months before you got pregnant with your new baby, did you do any of the following things?

Women's behaviors 12 months before pregnancy

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. I was dieting (changing my eating habits) to lose weight | 30.3 | 27.3 | 33.3 |
| b. I was exercising 3 or more days of the week | 37.7 | 34.6 | 40.9 |
| c. I was regularly taking prescription medicines other than birth control | 15.9 | 13.6 | 18.3 |
| d. I visited a health care worker to be checked or treated for diabetes | 9.6 | 7.7 | 11.5 |
| e. I visited a health care worker to be checked or treated for high blood pressure | 12.3 | 10.2 | 14.5 |
| f. I visited a health care worker to be checked or treated for depression or anxiety | 11.2 | 9.1 | 13.2 |
| g. I talked to a health care worker about my family medical history | 22.3 | 19.6 | 25.0 |
| h. I had my teeth cleaned by a dentist or dental hygienist | 41.8 | 38.6 | 45.0 |

2. During the month before you got pregnant with your new baby, were you covered by any of these health insurance plans?

Health insurance coverage during the month before pregnancy

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. Health insurance from your job or the job of your husband, partner, or parents | 38.1 | 34.9 | 41.2 |
| b. Health insurance that you or someone else paid for (not from a job) | 2.8 | 1.8 | 3.8 |
| c. Medicaid | 20.8 | 18.2 | 23.4 |
| d. TRICARE or other military health care | 3.2 | 2.0 | 4.3 |
| e. Indian Health Service | - | - | - |
| f. SCHIP | - | - | - |
| g. Other source(s) | - | - | - |
| h. I did not have any health insurance before I got pregnant | 33.5 | 30.5 | 36.6 |

3. During the *month before* you got pregnant with your new baby, how many times a week did you take a multivitamin, a prenatal vitamin, or a folic acid vitamin?

Vitamin intake before pregnancy

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. I didn't take a multivitamin, prenatal vitamin, or folic acid vitamin at all | 65.2 | 62.1 | 68.3 |
| b. 1 to 3 times a week | 10.2 | 8.2 | 12.2 |
| c. 4 to 6 times a week | 3.2 | 2.0 | 4.3 |
| d. Every day of the week | 21.4 | 18.8 | 24.1 |

4. Just before you got pregnant with your new baby, how much did you weigh?

Women's weight from this question is used to calculate women's Body Mass Index before pregnancy.

5. How tall are you without shoes?

Women's height from this question is used to calculate women's Body Mass Index before pregnancy.

Women's Body Mass Index before pregnancy

| | Percent | 95% CI | |
|--------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Underweight, BMI <18.5 | 4.3 | 3.0 | 5.7 |
| Normal weight, BMI 18.5 - 24.9 | 47.0 | 43.8 | 50.3 |
| Overweight / Obese, BMI 25+ | 48.6 | 45.4 | 51.9 |

6. What is your date of birth?

Women's age group

| | Percent | 95% CI | |
|----------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| 19 and younger | 15.5 | 13.2 | 17.9 |
| 20-24 | 33.5 | 30.4 | 36.5 |
| 25-34 | 44.8 | 41.5 | 48.0 |
| 35 and older | 6.2 | 4.7 | 7.8 |

7. Before you got pregnant with your new baby, were you ever told by a doctor, nurse, or other health care worker that you had Type 1 or Type 2 diabetes? This is not the same as gestational diabetes or diabetes that starts during pregnancy.

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had Type 1 or Type 2 diabetes | 2.0 | 1.1 | 2.9 |

8. Before you got pregnant with your new baby, did you ever have any other babies who were born alive?

Note: Women who say "No" on this question, go to question 12

| | Percent | 95% CI | |
|-----------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had previous live birth | 56.8 | 53.6 | 60.0 |

Previous live births grouped

| | Percent | 95% CI | |
|-----|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| 0 | 41.0 | 37.8 | 44.2 |
| 1 | 32.1 | 29.0 | 35.1 |
| 2 | 17.4 | 14.9 | 19.9 |
| 3-5 | 9.2 | 7.3 | 11.1 |
| ≥6 | - | - | - |

9. Did the baby born just before your new one weigh more than 5 pounds, 8 ounces (2.5 kilos) at birth?

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had previous birth weight baby >2.5 kilograms | 88.0 | 85.4 | 90.7 |

10. Was the baby just before your new one born more than 3 weeks before his or her due date?

| | Percent | 95% CI | |
|--------------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had previous preterm birth | 19.6 | 16.3 | 23.0 |

Women who had previous live birth, low birth weight (LBW) or preterm birth

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| No previous live birth | 43.9 | 40.6 | 47.1 |
| Normal previous live birth (not LBW or preterm) | 42.7 | 39.4 | 45.9 |
| Low birth weight | 2.5 | 1.5 | 3.5 |
| Preterm | 6.8 | 5.1 | 8.4 |
| Low birth weight & preterm | 4.1 | 3.0 | 5.3 |

11. When your new baby was born, how old was the child born just before your new baby?

Age of previous children

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| a. 0 to 12 months | 7.3 | 5.0 | 9.6 |
| b. 13 to 18 months | 11.3 | 8.5 | 14.2 |
| c. 19 to 24 months | 15.2 | 12.0 | 18.5 |
| d. More than 2 years, less than 3 years | 14.9 | 11.8 | 18.1 |
| e. 3 to 5 years | 28.4 | 24.4 | 32.4 |
| f. More than 5 years | 22.8 | 19.1 | 26.5 |

12. Thinking back to just before you got pregnant with your new baby, how did you feel about becoming pregnant?

Women's feelings about becoming pregnant

| | Percent | 95% CI | |
|--------------|---------|--------|-------|
| | | Lower | Upper |
| Sooner | 11.7 | 9.6 | 13.8 |
| Later | 37.9 | 34.8 | 41.1 |
| Then | 30.6 | 27.6 | 33.7 |
| Did not want | 19.7 | 17.1 | 22.3 |

13. When you got pregnant with your new baby, were you trying to get pregnant?

Note: Women who say "No" on this question, go to question 14

| | Percent | 95% CI | |
|-------------------------------|---------|--------|-------|
| | | Lower | Upper |
| Women trying to get pregnant* | 34.3 | 31.2 | 37.4 |

*Go to question 16

14. When you got pregnant with your new baby, were you or your husband or partner doing anything to keep from getting pregnant? (Some things people do to keep from getting pregnant include not having sex at certain times [natural family planning or rhythm] or withdrawal, and using birth control methods such as the pill, condoms, vaginal ring, IUD, having their tubes tied, or their partner having a vasectomy.)

Note: Women who say "No" on this question, go to question 15

Birth Control Use Among Women with Unintentional Pregnancies

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| Women, husband, or partner using birth control* | 43.7 | 39.7 | 47.7 |

*Go to question 16

15. What were your reasons or your husband's or partner's reasons for not doing anything to keep from getting pregnant?

Reasons for not using birth control among women with unintentional pregnancies

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. I didn't mind if I got pregnant | 27.0 | 22.4 | 31.7 |
| b. I thought I could not get pregnant at that time | 26.1 | 21.5 | 30.6 |
| c. I had side effects from the birth control method I was using | 14.6 | 10.8 | 18.3 |
| d. I had problems getting birth control when I needed it | - | - | - |
| e. I thought my husband or partner or I was sterile (could not get pregnant at all) | - | - | - |
| f. My husband or partner didn't want to use anything | 18.4 | 14.4 | 22.5 |
| g. Other(s) | 13.4 | 9.8 | 17.0 |

During pregnancy

The next questions are about the prenatal care you received during your most recent pregnancy. Prenatal care includes visits to a doctor, nurse, or other health care worker before your baby was born to get checkups and advice about pregnancy.

16. How many weeks or months pregnant were you when you were *sure* you were pregnant? (For example, you had a pregnancy test or a doctor or nurse said you were pregnant.)

| | Percent | 95% CI | |
|------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| First trimester | 88.7 | 86.6 | 90.8 |
| Second trimester | 10.9 | 8.8 | 12.9 |
| Third trimester | ■ | ■ | ■ |

17. How many weeks or months pregnant were you when you had your first visit for prenatal care?

This result do not count women's visit that was only for a pregnancy test or only for WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children).

First visit of prenatal care

| | Percent | 95% CI | |
|--------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| First trimester prenatal care | 77.5 | 74.8 | 80.2 |
| Second trimester prenatal care | 20.5 | 17.9 | 23.2 |
| Third trimester prenatal care | ■ | ■ | ■ |
| No prenatal care /missing | 1.2 | 0.5 | 1.9 |

Women who started prenatal care during first trimester

| | Percent | 95% CI | |
|------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Yes | 77.5 | 74.8 | 80.2 |
| No | 21.3 | 18.6 | 23.9 |
| No prenatal care | 1.2 | 0.5 | 1.9 |

Number of prenatal care visit

| | Percent | 95% CI | |
|------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| ≤8 | 12.1 | 10.0 | 14.1 |
| 9–11 | 22.4 | 19.7 | 25.1 |
| ≥12 | 65.5 | 62.4 | 68.6 |

18. Did you get prenatal care as early in your pregnancy as you wanted?

Note: Women who say “No” on this question, go to question 19

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who got prenatal care as early as they wanted* | 78.7 | 76.0 | 81.4 |

*Go to question 20

19. Did any of these things keep you from getting prenatal care at all or as early as you wanted?

Note: Women who did not go for prenatal care, continue to number 22

Barriers to prenatal care

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. I couldn't get an appointment when I wanted one | 31.4 | 24.8 | 37.9 |
| b. I didn't have enough money or insurance to pay for my visits | 38.8 | 32.0 | 45.7 |
| c. I had no transportation to get to the clinic or doctor's office | 15.6 | 10.5 | 20.7 |
| d. The doctor or my health plan would not start care as early as I wanted | 18.2 | 12.7 | 23.6 |
| e. I had too many other things going on | 15.3 | 10.2 | 20.5 |
| f. I couldn't take time off from work or school | - | - | - |
| g. I didn't have my Medicaid card | - | - | - |
| h. I had no one to take care of my children | 8.9 | 4.9 | 12.9 |
| i. I didn't know that I was pregnant | 42.2 | 35.2 | 49.2 |
| j. I didn't want anyone else to know I was pregnant | 16.1 | 10.9 | 21.4 |
| k. I didn't want prenatal care | - | - | - |

20. Did any of these health insurance plans help you pay for your prenatal care?

Health insurance coverage for prenatal care

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. Health insurance from your job or the job of your husband, partner, or parents | 31.2 | 28.2 | 34.2 |
| b. Health insurance that you or someone else paid for (not from a job) | - | - | - |
| c. Medicaid | 66.8 | 63.7 | 69.9 |
| d. TRICARE or other military health care | - | - | - |
| e. Indian Health Service | - | - | - |
| f. SCHIP | - | - | - |
| g. Other source(s) | - | - | - |
| h. I did not have health insurance to help pay for my prenatal care | 3.0 | 1.9 | 4.2 |

21. During any of your prenatal care visits, did a doctor, nurse, or other health care worker talk with you about any of the things listed below?

Women's discussion with doctor, nurse or health workers

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. How smoking during pregnancy could affect my baby. | 80.0 | 77.4 | 82.6 |
| b. Breastfeeding my baby | 88.8 | 86.7 | 90.9 |
| c. How drinking alcohol during pregnancy could affect my baby | 79.6 | 77.0 | 82.2 |
| d. Using a seat belt during my pregnancy . | 57.4 | 54.1 | 60.6 |
| e. Medicines that are safe to take during my pregnancy | 91.5 | 89.7 | 93.4 |
| f. How using illegal drugs could affect my baby. | 74.3 | 71.4 | 77.1 |
| g. Doing tests to screen for birth defects or diseases that run in my family | 86.9 | 84.7 | 89.1 |
| h. The signs and symptoms of preterm labor (labor more than 3 weeks before the baby is due) | 81.1 | 78.5 | 83.6 |
| i. What to do if my labor starts early | 81.7 | 79.1 | 84.2 |
| j. Getting tested for HIV (the virus that causes AIDS) | 71.2 | 68.2 | 74.2 |
| k. What to do if I feel depressed during my pregnancy or after my baby is born | 64.3 | 62.2 | 67.5 |
| l. Physical abuse to women by their husbands or partners | 45.1 | 41.9 | 48.4 |

22. At any time during your most recent pregnancy or delivery, did you have a test for HIV (the virus that causes AIDS)?

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had HIV test during pregnancy | 76.5 | 73.5 | 79.6 |

23. During your most recent pregnancy, were you on WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children)?

| | Percent | 95% CI | |
|---------------------------------------|---------|--------|-------|
| | | Lower | Upper |
| Women on WIC program during pregnancy | 69.7 | 66.7 | 72.7 |

24. During your most recent pregnancy, were you told by a doctor, nurse, or other health care worker that you had gestational diabetes (diabetes that started during this pregnancy)?

| | Percent | 95% CI | |
|--|---------|--------|-------|
| | | Lower | Upper |
| Women who had gestational diabetes during this pregnancy | 8.2 | 6.4 | 10.0 |

25. Did you have any of the following problems during your most recent pregnancy?

Problems during the most recent pregnancy

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| a. Vaginal bleeding | 18.4 | 15.9 | 20.9 |
| b. Kidney or bladder (urinary tract) infection | 31.5 | 28.5 | 34.5 |
| c. Severe nausea, vomiting, or dehydration | 39.0 | 35.8 | 42.1 |
| d. Cervix had to be sewn shut (cerclage for incompetent cervix) | 1.9 | 1.0 | 2.7 |
| e. High blood pressure, hypertension (including pregnancy-induced hypertension [PIH]), preeclampsia, or toxemia | 19.5 | 17.0 | 22.0 |
| f. Problems with the placenta (such as abruptio placenta or placenta previa) | 4.3 | 3.0 | 5.5 |
| g. Labor pains more than 3 weeks before my baby was due (preterm or early labor) | 21.9 | 19.3 | 24.4 |
| h. Water broke more than 3 weeks before my baby was due (premature rupture of membranes [PROM]) | 5.0 | 3.9 | 6.1 |
| i. I had to have a blood transfusion | - | - | - |
| j. I was hurt in a car accident. | - | - | - |

The next questions are about smoking cigarettes around the time of pregnancy (before, during, and after).

26. Have you smoked any cigarettes in the past 2 years?

Note: Women who say "No" on this question, go to question 30

| | Percent | 95% CI | |
|--|---------|--------|-------|
| | | Lower | Upper |
| Women smoked any cigarettes in the past 2 years* | 32.5 | 29.4 | 35.5 |

* Go to question 27

27. In the 3 months before you got pregnant, how many cigarettes did you smoke on an average day?
(A pack has 20 cigarettes.)

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who smoked 3 months before pregnancy | 29.8 | 26.8 | 32.8 |

Amount of cigarettes smoked on an average day in the 3 months before pregnancy

| | Percent | 95% CI | |
|--------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. 41 cigarettes or more | - | - | - |
| b. 21 to 40 cigarettes | - | - | - |
| c. 11 to 20 cigarettes | 29.7 | 24.5 | 34.9 |
| d. 6 to 10 cigarettes | 24.0 | 19.1 | 29.0 |
| e. 1 to 5 cigarettes | 26.3 | 21.2 | 31.3 |
| f. Less than 1 cigarette | - | - | - |
| g. I didn't smoke then | - | - | - |

28. In the last 3 months of your pregnancy, how many cigarettes did you smoke on an average day?
(A pack has 20 cigarettes)

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who smoked in last 3 months of pregnancy | 16.6 | 14.1 | 19.0 |

Amount of cigarettes smoked on an average day in the last 3 months of pregnancy

| | Percent | 95% CI | |
|--------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. 41 cigarettes or more | - | - | - |
| b. 21 to 40 cigarettes | - | - | - |
| c. 11 to 20 cigarettes | 8.8 | 5.5 | 12.1 |
| d. 6 to 10 cigarettes | 13.0 | 9.0 | 16.9 |
| e. 1 to 5 cigarettes | 21.7 | 17.0 | 26.4 |
| f. Less than 1 cigarette | - | - | - |
| g. I didn't smoke then | 48.8 | 43.0 | 54.5 |

29. How many cigarettes do you smoke on an average day *now*? (A pack has 20 cigarettes.)

| | Percent | 95% CI | |
|---------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who smoke now | 21.3 | 18.6 | 23.9 |

Amount of cigarettes women smoke on an average day now

| | Percent | 95% CI | |
|--------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. 41 cigarettes or more | - | - | - |
| b. 21 to 40 cigarettes | - | - | - |
| c. 11 to 20 cigarettes | 20.2 | 15.6 | 24.8 |
| d. 6 to 10 cigarettes | 18.0 | 13.6 | 22.4 |
| e. 1 to 5 cigarettes | 21.1 | 16.4 | 25.8 |
| f. Less than 1 cigarette | - | - | - |
| g. I didn't smoke then | 33.8 | 28.3 | 39.3 |

30. Which of the following statements best describes the rules about smoking *inside* your home *now*?

Rules about smoking inside the home

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. No one is allowed to smoke anywhere inside my home | 88.3 | 86.2 | 90.4 |
| b. Smoking is allowed in some rooms or at some times | 10.0 | 8.0 | 12.0 |
| c. Smoking is permitted anywhere inside my home | - | - | - |

The next questions are about drinking alcohol around the time of pregnancy (before, during, and after).

31. Have you had any alcoholic drinks in the *past 2 years*? A drink is 1 glass of wine, wine cooler, can or bottle of beer, shot of liquor, or mixed drink.

Note: Women who say "No" on this question, go to question 34

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who drank alcohol in the past 2 years* | 51.4 | 48.1 | 54.6 |

*Go to question 32a

32a. During the 3 months before you got pregnant, how many alcoholic drinks did you have in an average week?

Drinks in an average week before pregnancy among women who drank

| | Percent | 95% CI | |
|------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. 14 drinks or more a week* | - | - | - |
| b. 7 to 13 drinks a week* | - | - | - |
| c. 4 to 6 drinks a week* | 5.9 | 3.7 | 8.0 |
| d. 1 to 3 drinks a week* | 20.0 | 16.3 | 23.6 |
| e. Less than 1 drink a week* | 48.2 | 43.7 | 52.8 |
| f. I didn't drink then** | 20.7 | 17.0 | 24.4 |

*Go to question 32b

**Go to question 33a

32b. During the 3 months before you got pregnant, how many times did you drink 4 alcoholic drinks or more in one sitting? A sitting is a two hour time span.

Frequency of having 4 or more alcoholic drinks in one sitting before pregnancy among women who drank

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. 6 or more times | - | - | - |
| b. 4 to 5 times | - | - | - |
| c. 2 to 3 times | 18.5 | 14.5 | 22.6 |
| d. 1 time | 13.9 | 10.4 | 17.4 |
| e. I didn't have 4 drinks or more in 1 sitting | 60.7 | 55.7 | 65.8 |

33a. During the last 3 months of your pregnancy, how many alcoholic drinks did you have in an average week?

Alcoholic drinks in an average week during pregnancy among women who drank

| | Percent | 95% CI | |
|------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. 14 drinks or more a week* | - | - | - |
| b. 7 to 13 drinks a week* | - | - | - |
| c. 4 to 6 drinks a week* | - | - | - |
| d. 1 to 3 drinks a week* | - | - | - |
| e. Less than 1 drink a week* | 4.3 | 2.4 | 6.1 |
| f. I didn't drink then** | 92.5 | 90.0 | 94.9 |

*Go to question 33b

**Go to question 34

33b. During the last 3 months of your pregnancy, how many times did you drink 4 alcoholic drinks or more in one sitting? A sitting is a two hour time span.

Frequency of having 4 or more alcoholic drinks in one sitting during pregnancy among women who drank

| | Percent | 95% CI | |
|--|---------|--------|-------|
| | | Lower | Upper |
| a. 6 or more times | - | - | - |
| b. 4 to 5 times | - | - | - |
| c. 2 to 3 times | - | - | - |
| d. 1 time | - | - | - |
| e. I didn't have 4 drinks or more in 1 sitting | 71.3 | 55.1 | 87.4 |

Pregnancy can be a difficult time for some women. The next parts are about things that may have happened before and during women's most recent pregnancy.

34. This question is about things that may have happened during the 12 months before your new baby was born.

Stressful events during the 12 months before new baby was born

| | Percent | 95% CI | |
|--|---------|--------|-------|
| | | Lower | Upper |
| a. A close family member was very sick and had to go into the hospital | 28.7 | 25.7 | 31.6 |
| b. I got separated or divorced from my husband or partner | 11.7 | 9.7 | 13.8 |
| c. I moved to a new address | 35.8 | 32.7 | 38.9 |
| d. I was homeless | 2.2 | 1.3 | 3.1 |
| e. My husband or partner lost his job | 17.3 | 14.8 | 19.8 |
| f. I lost my job even though I wanted to go on working | 14.0 | 11.7 | 16.3 |
| g. I argued with my husband or partner more than usual | 33.2 | 30.2 | 36.3 |
| h. My husband or partner said he didn't want me to be pregnant | 9.3 | 7.4 | 11.2 |
| i. I had a lot of bills I couldn't pay | 28.1 | 25.2 | 31.0 |
| j. I was in a physical fight | 7.2 | 5.5 | 8.9 |
| k. My husband or partner or I went to jail | 6.8 | 5.2 | 8.4 |
| l. Someone very close to me had a problem with drinking or drugs | 16.0 | 13.6 | 18.4 |
| m. Someone very close to me died | 22.7 | 20.0 | 25.4 |

35. During the 12 months before you got pregnant with your new baby, did your husband or partner push, hit, slap, kick, choke, or physically hurt you in any other way?

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had physical abuse from husband or partner before pregnancy | 5.6 | 4.2 | 7.1 |

36. During your most recent pregnancy, did your husband or partner push, hit, slap, kick, choke, or physically hurt you in any other way?

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had physical abuse from husband or partner during pregnancy | 4.1 | 2.8 | 5.3 |

The next questions are about your labor and delivery.

37. When was your baby due?

38. When did you go into the hospital to have your baby?

| | Percent | 95% CI | |
|--------------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who delivered baby in hospital | 99.7 | 99.4 | 100.0 |

39. When was your baby born?

40. When were you discharged from the hospital after your baby was born?

Women's length of stay in the hospital

| | Percent | 95% CI | |
|--------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| 0 – 2 nights | 41.0 | 37.7 | 44.2 |
| 3 – 4 nights | 47.8 | 44.5 | 51.1 |
| ≥ 5 nights | 11.2 | 9.3 | 13.1 |

41. Did any of these health insurance plans help you pay for the *delivery* of your new baby?

Health insurance coverage for delivery

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. Health insurance from your job or the job of your husband, partner, or parents | 27.8 | 24.9 | 30.7 |
| b. Health insurance that you or someone else paid for (not from a job) | - | - | - |
| c. Medicaid | 71.5 | 68.6 | 74.5 |
| d. TRICARE or other military health care | - | - | - |
| e. Indian Health Service | - | - | - |
| f. SCHIP | - | - | - |
| g. Other source(s) | - | - | - |
| h. I did not have health insurance to help pay for my delivery | - | - | - |

After pregnancy

42. After your baby was born, was he or she put in an intensive care unit?

| | Percent | 95% CI | |
|--------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| The baby was in ICU after born | 11.1 | 9.4 | 12.8 |

43. After your baby was born, how long did he or she stay in the hospital?

Baby's length of stay in the hospital

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. Less than 24 hours (<1 day)* | - | - | - |
| b. 24 to 48 hours (1-2 days)* | 52.5 | 49.3 | 55.7 |
| c. 3 to 5 days* | 37.4 | 34.2 | 40.6 |
| d. 6 to 14 days* | 4.6 | 3.5 | 5.8 |
| e. More than 14 days* | 3.7 | 3.0 | 4.3 |
| f. My baby was not born in a hospital* | - | - | - |
| g. My baby is still in the hospital** | - | - | - |

* Go to question 44

** Go to question 46

44. Is your baby alive now?*Note: Women who say “No” on this question, go to question 52*

| | Percent | 95% CI | |
|--------------------|---------|--------|-------|
| | | Lower | Upper |
| Baby is alive now* | 98.7 | 98.1 | 99.4 |

Go to question 45*45. Is your baby living with you now?***Note: Women who say “No” on this question, go to question 52*

| | Percent | 95% CI | |
|---------------------------------|---------|--------|-------|
| | | Lower | Upper |
| Baby is living with mother now* | 99.4 | 99.0 | 99.9 |

Go to question 46*46. Did you ever breastfeed or pump breast milk to feed your new baby after delivery, even for a short period of time?***Note: Women who say “No” on this question, go to question 49b*

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| Women who ever breastfeed or pump breast milk to feed baby* | 53.5 | 50.3 | 56.8 |

** Go to question 47***47. Are you currently breastfeeding or feeding pumped milk to your new baby?***Note: Women who say “No” on this question, go to question 48*

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| Women who currently breastfeeding or feeding pumped milk to baby* | 28.3 | 24.2 | 32.4 |

Go to question 49a*48. How many weeks or months did you breastfeed or pump milk to feed your baby?**

Duration of breastfeeding or pumping milk

| | Percent | 95% CI | |
|---------------|---------|--------|-------|
| | | Lower | Upper |
| < 1 week | 12.8 | 9.2 | 16.5 |
| ≥ 1 - 7 weeks | 56.2 | 50.9 | 61.5 |
| ≥ 8 + weeks | 30.9 | 26.0 | 35.9 |

**note: This is NOT exclusive breastfeeding.*

49a. How old was your new baby the first time he or she drank liquids other than breast milk (such as formula, water, juice, tea, or cow's milk) ?

Baby's first time drinking liquids other than breast milk

| | Percent | 95% CI | |
|---------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| < 1 week | 36.5 | 31.9 | 41.1 |
| ≥ 1 - 7 weeks | 39.8 | 35.1 | 44.5 |
| ≥ 8 + weeks | 23.7 | 19.7 | 27.8 |

49b. How old was your new baby the first time he or she ate food (such as baby cereal, baby food, or any other food)?

Baby's first time eating food

| | Percent | 95% CI | |
|---------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| < 1 week | - | - | - |
| ≥ 1 - 7 weeks | 18.3 | 15.3 | 21.2 |
| ≥ 8 + weeks | 80.2 | 77.1 | 83.2 |

50. In which *one* position do you *most often* lay your baby down to sleep now?

Baby's sleeping position

| | Percent | 95% CI | |
|-------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. On his or her side | 17.8 | 15.3 | 20.4 |
| b. On his or her back | 56.1 | 52.8 | 59.4 |
| c. On his or her stomach | 21.2 | 18.5 | 23.9 |
| d. On his or her side/back | 3.3 | 2.1 | 4.5 |
| e. On his or her side/stomach | - | - | - |
| f. On his or her back/stomach | - | - | - |
| g. All 3 positions | - | - | - |

51. Was your new baby seen by a doctor, nurse, or other health care worker for a *one week check-up* after he or she was born?

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| The baby was checked-up one week after delivery | 85.3 | 83.0 | 87.7 |

52. Are you or your husband or partner doing anything *now* to keep from getting pregnant? (Some things people do to keep from getting pregnant include not having sex at certain times [natural family planning or rhythm] or withdrawal, and using birth control methods such as the pill, condoms, vaginal ring, IUD, having their tubes tied, or their partner having a vasectomy.)

Note: Women who say “No” on this question, go to question 53

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| Women or their husband or partner were doing birth control* | 89.0 | 87.0 | 91.1 |

*Go to question 54

53. What are your reasons or your husband’s or partner’s reasons for not doing anything to keep from getting pregnant *now*?

Reasons for not using birth control now

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| a. I am not having sex | 25.9 | 17.3 | 34.4 |
| b. I want to get pregnant | - | - | - |
| c. I don’t want to use birth control | 29.5 | 20.5 | 38.5 |
| d. My husband or partner doesn’t want to use anything | - | - | - |
| e. I don’t think I can get pregnant (sterile) | - | - | - |
| f. I can’t pay for birth control | - | - | - |
| g. I am pregnant now | - | - | - |
| h. Other(s) | 24.7 | 16.5 | 33.0 |

54. Below is a list of feelings and experiences that women sometimes have after childbirth. Read each item to determine how well it describes your feelings and experiences. Then, write on the line the number of the choice that best describes how often you have felt or experienced things this way *since your new baby was born*. Use the scale when answering:

| 1 | 2 | 3 | 4 | 5 |
|-------|--------|-----------|-------|--------|
| Never | Rarely | Sometimes | Often | Always |

Women’s feelings after childbirth

| | Percent | 95% CI | |
|-----------------------------------|---------|--------|-------|
| | | Lower | Upper |
| a. I felt down, depressed, or sad | | | |
| Never | 36.1 | 32.9 | 39.2 |
| Rarely | 19.7 | 17.1 | 22.3 |
| Sometimes | 27.5 | 24.6 | 30.4 |
| Often | 11.6 | 9.5 | 13.7 |

| | | | |
|-----------------------|------|------|------|
| Always | 5.1 | 3.7 | 6.5 |
| b. I felt hopeless | | | |
| Never | 64.2 | 61.0 | 67.3 |
| Rarely | 15.6 | 13.2 | 18.0 |
| Sometimes | 11.3 | 9.2 | 13.4 |
| Often | 5.2 | 3.8 | 6.7 |
| Always | 3.7 | 2.5 | 4.9 |
| c. I felt slowed down | | | |
| Never | 31.1 | 28.1 | 34.1 |
| Rarely | 18.6 | 16.1 | 21.2 |
| Sometimes | 29.5 | 26.5 | 32.5 |
| Often | 13.5 | 11.3 | 15.8 |
| Always | 7.3 | 5.6 | 9.0 |

Other experiences

55. During the 12 months before you got pregnant with your new baby, did a doctor, nurse, or other health care worker talk with you about any of the things listed below?

Discussion with health care providers 12 months before pregnancy

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| a. Taking a multivitamin with folic acid | 46.5 | 43.3 | 49.8 |
| b. Maintaining or being a healthy weight | 55.6 | 52.4 | 58.9 |
| c. Getting a yearly checkup | 71.5 | 68.6 | 74.5 |
| d. Eating healthy and drinking water everyday | 68.5 | 65.4 | 71.5 |
| e. Quitting smoking | 46.3 | 43.0 | 49.5 |
| f. Quitting drinking alcohol | 36.9 | 33.8 | 40.1 |
| g. Using birth control | 68.8 | 65.8 | 71.9 |

56. During any of your prenatal care visits, did you have any tests for birth defects?

Note: Women who say "No" on this question, go to question 57

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| Women who had any tests for birth defects during prenatal care* | 60.9 | 57.6 | 64.2 |

*Go to question 58

57. What were your reasons for not having tests for birth defects during your most recent pregnancy?

Reasons for not having birth defect test during pregnancy

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. I was not told about any tests for birth defects | 16.2 | 12.2 | 20.1 |
| b. I did not understand the reason for the test | - | - | - |
| c. I do not like having my blood drawn | - | - | - |
| d. I heard the tests were unreliable | 17.0 | 13.0 | 21.0 |
| e. I did not want to know if my baby had birth defects | 46.8 | 41.5 | 52.1 |
| f. The cost of the blood test was too high | - | - | - |
| g. Other(s) | 22.1 | 17.6 | 26.5 |

58. During your prenatal care visits, did you have any of the following problems with a doctor, nurse or other health care worker?

Problems with a doctor, nurse or other health care workers during prenatal care

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. My doctor or nurse did not understand my concerns | 4.2 | 2.9 | 5.5 |
| b. My doctor or nurse did not answer my questions | 3.6 | 2.4 | 4.9 |
| c. I did not understand what my doctor or nurse was telling me | 5.3 | 3.8 | 6.7 |
| d. My doctor or nurse seemed not to care about me or my pregnancy | 5.4 | 3.9 | 6.9 |

59. During your most recent pregnancy, did a doctor, nurse, or other health care worker tell you that you had a urinary tract infection (UTI), a sexually transmitted disease (STD), or any vaginal infection, including bacterial vaginosis or Group B Strep (Beta Strep)?

Note: Women who say "No" on this question, go to question 61

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| Women who had infection (UTI, STD, <i>Bacterial vaginosis</i> or Group B Strep)* | 45.2 | 41.9 | 48.4 |

*Go to question 60

60. What infection or disease were you told that you had?

Type of infection /disease during most recent pregnancy

| | Percent | 95% CI | |
|--------------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. Genital warts (HPV) | - | - | - |
| b. Herpes | - | - | - |
| c. Chlamydia | 8.6 | 5.9 | 11.4 |
| d. Gonorrhea | - | - | - |
| e. Pelvic inflammatory disease (PID) | - | - | - |
| f. Syphilis | - | - | - |
| g. Group B Strep (Beta Strep) | 17.6 | 13.8 | 21.3 |
| h. <i>Bacterial vaginosis</i> | 6.3 | 4.1 | 8.5 |
| i. <i>Trichomoniasis</i> (Trich) | 6.7 | 4.2 | 9.1 |
| j. Yeast infections | 25.7 | 21.5 | 30.0 |
| k. Urinary tract infection (UTI) | 57.5 | 52.7 | 62.3 |
| l. Other(s) | - | - | - |

61. During your most recent pregnancy, which one of the following things do you feel would have helped you during your pregnancy?

Desired support during pregnancy

| | Percent | 95% CI | |
|---|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. A pregnancy support group | 13.0 | 10.9 | 15.2 |
| b. A 1-800 Toll Free Help Line | 8.5 | 6.7 | 10.3 |
| c. Assistance with finding a daycare or child care provider | 15.2 | 12.8 | 17.5 |
| d. Better health insurance | 14.8 | 12.5 | 17.1 |
| e. A more supportive husband or partner | 20.9 | 18.3 | 23.5 |
| f. Home visits from a social worker or other health care worker to give me advice | 6.6 | 5.0 | 8.2 |
| g. Other | 5.4 | 3.9 | 6.8 |
| h. None of these things would have helped me | 42.2 | 39.0 | 45.4 |

62. This question is about the care of your teeth during your most recent pregnancy.

Women's care of teeth during pregnancy

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. I went to a dentist or dental clinic for a checkup | 30.9 | 27.9 | 33.9 |
| b. I went to a dentist or dental clinic to have my teeth cleaned | 28.0 | 25.1 | 31.0 |
| c. I had painful, red, or swollen gums | 15.8 | 13.4 | 18.1 |

| | | | |
|--|------|------|------|
| d. I had to have a tooth pulled | 6.6 | 5.0 | 8.2 |
| e. I had cavities that needed to be filled | 22.9 | 20.1 | 25.7 |
| f. I needed to see a dentist for an abscess (infection surrounded by inflamed tissue) | 8.0 | 6.3 | 9.8 |
| g. A dental or other health care provider talked with me about how to care for my teeth and gums | 27.9 | 25.0 | 30.8 |

63. Before you were discharged from the hospital after having your new baby, did a doctor, nurse, social worker, or other health care worker talk with you about any of the following?

Discussion before hospital discharged after delivery

| | Percent | 95% CI | |
|--|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. Having a car seat ready for my new baby | 95.5 | 94.1 | 96.9 |
| b. Having a crib ready for my new baby | 60.1 | 56.8 | 63.3 |
| c. How or where to lay my baby down to sleep | 85.7 | 83.4 | 88.1 |
| d. How to prepare my baby's bed for sleeping | 64.2 | 61.0 | 67.4 |
| e. How to dress my baby in cold or hot weather | 56.6 | 53.3 | 59.8 |
| f. How to position my baby for feeding | 80.0 | 77.3 | 82.6 |
| g. How often and how much to feed my baby | 89.1 | 87.1 | 91.2 |
| h. How to get help if I need it when breastfeeding the baby | 74.0 | 71.1 | 76.9 |
| i. How smoking near my baby could affect him or her | 76.5 | 73.7 | 79.3 |
| j. How often to take my baby to the doctor for shots or checkups | 84.0 | 81.5 | 86.4 |
| k. How to watch my baby for signs of possible illness | 75.5 | 72.7 | 78.4 |
| l. How to take care of my baby while at home | 80.7 | 78.0 | 83.3 |

64. Have any of your close family members who are related to you by blood (mother, father, sisters, or brothers) had any of the conditions listed below?

Problems by close family members (blood relatives)

| | Percent | 95% CI | |
|---------------------------------------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| a. Diabetes | 43.8 | 40.5 | 47.2 |
| b. Heart problems | 38.3 | 35.0 | 41.6 |
| c. High blood pressure (hypertension) | 70.0 | 67.0 | 73.1 |
| d. Depression | 33.0 | 29.8 | 36.2 |
| e. Postpartum depression | 14.0 | 11.6 | 16.5 |
| f. Anxiety | 30.8 | 27.5 | 34.0 |

65. Did you ever have a miscarriage or baby that died?

Note: Women who say "No" on this question, go to question 67

| | Percent | 95% CI | |
|---|---------|--------|-------|
| | | Lower | Upper |
| Women who had a miscarriage or baby died* | 23.9 | 21.2 | 26.7 |

*Go to question 66

66. Please check the primary reason for death.

Reasons for baby's death

| | Percent | 95% CI | |
|--|---------|--------|-------|
| | | Lower | Upper |
| a. SIDS or Sudden Infant Death Syndrome (Crib Death) | - | - | - |
| b. Birth defect | - | - | - |
| c. Premature birth (born too early) | 6.3 | 3.5 | 9.1 |
| d. Miscarriage | 78.6 | 73.4 | 83.8 |
| e. Birth weight was too low | - | - | - |
| f. Pregnancy complications | - | - | - |
| g. Accident | - | - | - |
| h. Other | 9.4 | 5.5 | 13.3 |
| i. I don't know the cause of death | - | - | - |

67. Have you ever been told by a doctor, nurse, or other health care worker that you have asthma?

| | Percent | 95% CI | |
|----------------------|---------|--------|-------|
| | | Lower | Upper |
| Women who had asthma | 13.6 | 11.4 | 15.8 |

The last part is about the time during the 12 months before your new baby was born.

68. During the 12 months before your new baby was born, what was your yearly total household income before taxes? Include your income, your husband's or partner's income, and any other income you may have received.

Annually total household income before taxes

| | Percent | 95% CI | |
|-------------------------|---------|--------|-------|
| | | Lower | Upper |
| a. Less than \$10,000 | 34.4 | 31.1 | 37.6 |
| b. \$10,000 to \$14,999 | 13.6 | 11.3 | 16.0 |

| | | | |
|-------------------------|------|------|------|
| c. \$15,000 to \$19,999 | 10.2 | 8.1 | 12.2 |
| d. \$20,000 to \$24,999 | 8.5 | 6.6 | 10.5 |
| e. \$25,000 to \$34,999 | 9.2 | 7.3 | 11.2 |
| f. \$35,000 to \$49,999 | 8.6 | 6.7 | 10.5 |
| g. \$50,000 or more | 15.5 | 13.0 | 18.0 |

69. During the 12 months before your new baby was born, how many people, including yourself, depended on this income?

Numbers on the family who depend on the income

| | Percent | 95% CI | |
|-----------|---------|--------------|--------------|
| | | <i>Lower</i> | <i>Upper</i> |
| 1 | 13.4 | 11.2 | 15.6 |
| 2 | 32.1 | 29.0 | 35.1 |
| 3 | 28.4 | 25.4 | 31.3 |
| 4 | 15.1 | 12.7 | 17.4 |
| 5 | 6.8 | 5.1 | 8.4 |
| 6 or more | 4.3 | 3.0 | 5.7 |

Appendix

Purpose and History

In 1987, the Centers for Disease Control and Prevention (CDC) initiated the PRAMS project in collaboration with state health departments. The purpose was to gather data about maternal experiences and behaviors relevant to maternal and infant health, especially low birth weight and infant mortality. Thirty-seven states and New York City currently participate in this project.

Findings from PRAMS are used to enhance understanding of maternal behaviors and their relationship with adverse pregnancy outcomes. Data can be used at the state level to plan, implement, monitor and evaluate programs and to inform policymakers and the general public. PRAMS helps to identify families at risk for health problems and to monitor progress over time. At the national level, PRAMS represents 78% of all US births. For year 2009 births, the Phase VI questionnaire was used.

Sampling

This description is based on information from the CDC PRAMS website <http://www.cdc.gov/prams/methodology.htm>. The PRAMS sample of women who have had a recent live birth was drawn from the state's birth certificate file. For birth year 2009, Mississippi PRAMS sampled 1,046 mothers (generalizing to a PRAMS-eligible population of 39,975). The sample was stratified by birth weight: women with very low birth weight (under 1,500 g) or low birth weight (1,500 to 2,499 g) infants were sampled at a higher rate. Records were excluded from the sample if the mother was non-resident or gave birth out of state, if the mother's last name was missing in the birth certificates, or if the birth certificate process was delayed more than 6 months after the birth.

Data Collection

Procedures and instruments were standardized to allow comparisons between states. Selected women were first contacted by mail. If there was no response, attempts were made to interview women by telephone.

Weighting and Analysis

CDC PRAMS weighted the dataset, providing a final analysis weight that was the product of the weights for sampling, non-response, and non-coverage. Estimates for the PRAMS-eligible population were obtained by using the analysis weight and survey design variables. SAS 9.3 software was used for survey analysis.

Variable Definitions

Birth Certificate Variables

The mother provided demographic information (maternal age, race, educational level, and marital status). Age and educational level were reported as completed years.

Survey Variables

Q4, Q5

Question 4 asks about women's weight before pregnancy. Question 5 asks about women's height before pregnancy. Both were used to measure Body Mass Index (BMI). According to CDC, BMI calculated as weight in kilograms divided by the square of height in meters (kg/m²). For all adults 20 years and older, it was categorized as underweight if less than 18.5; normal if 18.5 to 24.9; overweight if 25.0 to 29.9; and obese if 30.0 or more (Body Mass Index: Considerations for Practitioners, Department of Health and Human Services, Centers for Disease Controls and Prevention. Available at <http://www.cdc.gov/obesity/downloads/BMIforPactitioners.pdf>, accessed July 26th, 2013).

Q6

Question 6 asks about the women's birth date. The answer could be used to categorize women's age into range group.

Q8

This report uses survey responses for previous live births. Information on birth certificate can be from maternal self-report or from medical records and the source of data may affect the results. Thus, birth certificate information sometimes differs from the survey response.

Q9

Question 9 asks about women's previous low birth weight baby. Low birth weight is defined as birth weight less than 2,500 grams (United Nations Fund and World Health Organization. Low birth weight: country, regional, and global estimates. New York: UNICEF, 2004. Available at http://www.childinfo.org/files/low_birthweight_from_EY.pdf, accessed July 26th, 2013).

Q11

Question 11 asks about the age of women's previous baby. The result is categorized into baby's age group and shows birth spacing.

Q17

Question 17 asks about women's initiation of prenatal care. The responses are categorized into trimesters, those who start on first trimester and the number of prenatal care visits.

Q26, Q27, Q28, Q29

These questions ask about smoking among women. Responses were dichotomized as yes or no. For women who smoke, it is followed by questions about smoking before, during and after pregnancy.

Q38, Q40

Question 8 asks about women's admission to the hospital. Question 40 asks about women's discharge from the hospital. From these questions, the length of stay for delivery was calculated.

Statistical Methods

This brief surveillance report was calculated using SAS 9.3 with complex sample capability for weighted data. Weighted percentages were calculated from each question and the 95% Confidence Interval were computed. Results are displayed by tables for each question. In the tables, we report a margin of error, the 95% confidence interval (95% CI). Categories of maternal characteristics that have non-overlapping 95% CIs are statistically significantly different from each other. Test of trend was not computed. In the tables, grey shading is used to identify percentages that come from survey responses of less than 50 women. The reader must interpret these percentages with caution. Dashes (-) are used to suppress percentages that come from responses of less than 37 women. These sample size restrictions are due to the nature of PRAMS data and statistical requirements for a stable sample size. The approach for presenting point estimates and their variability is adapted from NCHS. Details of NCHS guidelines are available at <http://www.cdc.gov/nchs/products/pubs/pubd/hestats/children2005/children2005.htm>. Accessed July 26th, 2013.

Strengths and Limitations

Strengths:

PRAMS is a population-based survey allowing generalization to all women with a live birth, with relatively few exclusions. PRAMS data provides overall estimates of prevalences of maternal behaviors or health problems which are useful for monitoring trends and assessing state's need for services (MS PRAMS Surveillance Protocol, February 19, 2011). This 2009 birth dataset represents 69.7% response rates, exceeding 65% of the response rates required by CDC.

Limitations:

Sample sizes for some subpopulations were too small for precise estimates. If presented, these are shaded with grey ($n < 50$). For sample sizes less than 37 respondents, the percentages are suppressed and ‘-’ is in the cell. PRAMS questionnaire data are self reported and may be subject to inaccurate reporting. This may lead to recall bias, reporting bias and mode bias. The answer also depends on how respondent interpret the questions. If respondents interpret differently than expected, inaccurate information may result.

Survey Legends

Survey legends was designed to provide guidance for PRAMS data users on noteworthy topics in the PRAMS survey. A database of topics was developed from the Mississippi maternal and child health (MCH) state needs assessment and the CDC PRAMS web query categories. Each topic area is matched with questions from the survey and a brief summary of the question is provided.

Sample and Population, year 2009 births

Number of MS PRAMS respondents (unweighted number) and weighted estimates (numbers and percents of MS residents with in-state live birth) by maternal characteristics used in tables.

| Maternal characteristics | Unweighted counts | Number | Weighted estimates | | | | |
|---|-------------------|--------|---------------------------|------------------------|------------------|------------------------|------------------------|
| | | | 95% CI <i>Lower</i> | 95% CI <i>Upper</i> | Weighted percent | 95% CI <i>Lower</i> | 95% CI <i>Upper</i> |
| Age (years) | | | | | | | |
| All women | 1406 | 39975 | 39788 | 40162 | 100 | . | . |
| 19 and younger | 226 | 6205 | 5267 | 7144 | 15.5 | 13.2 | 17.9 |
| 20-24 | 461 | 13385 | 12159 | 14611 | 33.5 | 30.4 | 36.5 |
| 25-34 | 605 | 17894 | 16602 | 19185 | 44.8 | 41.5 | 48.0 |
| 35+ | 114 | 2491 | 1884 | 3098 | 6.2 | 4.7 | 7.8 |
| Race-ethnicity | | | | | | | |
| All women | 1406 | 39975 | 39788 | 40162 | 100 | . | . |
| White | 617 | 20368 | 19078 | 21658 | 51.0 | 47.7 | 54.2 |
| Black | 744 | 17998 | 16713 | 19283 | 45.0 | 41.8 | 48.2 |
| Other | 45 | 1074 | 1074 | 2144 | 4.0 | 2.7 | 5.4 |
| Education (years completed) | | | | | | | |
| All women | 1405 | 39972 | 39785 | 40159 | 100 | . | . |
| Less than high school | 310 | 9171 | 8016 | 10326 | 22.9 | 20.1 | 25.8 |
| High school | 466 | 12834 | 11650 | 14019 | 32.1 | 29.1 | 35.1 |
| Some college | 391 | 10609 | 9488 | 11729 | 26.5 | 23.7 | 29.4 |
| College graduate | 238 | 7357 | 6361 | 8354 | 18.4 | 15.9 | 20.9 |
| Marital status | | | | | | | |
| All women | 1406 | 39975 | 39788 | 40162 | 100 | . | . |
| Married | 569 | 17310 | 16030 | 18590 | 43.3 | 40.1 | 46.5 |
| Not married | 837 | 22665 | 21363 | 23967 | 56.7 | 53.5 | 59.9 |
| Medicaid for PNC &/or delivery | | | | | | | |
| All women | 1406 | 39975 | 39788 | 40162 | 100 | . | . |
| No | 349 | 10917 | 9761 | 12074 | 27.3 | 24.4 | 30.2 |
| Yes | 1057 | 29058 | 27876 | 30240 | 72.7 | 69.8 | 75.6 |

**Your answers on this
survey will help us improve
the health of mothers and
babies in Mississippi**



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