

**2020**

**MS PRAMS 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.

The Title V Maternal and Child Health Block Grant is a Federal-State partnership program geared towards improving the health of mothers and children, including children and youth with special health needs. MS PRAMS addresses several Title V Maternal and Child Health priorities, including: decreasing infant mortality, increasing access to health care/medical homes for children and youth with special health needs, increasing access to comprehensive health care for children, reducing teen pregnancy and teen birth rate, increasing health insurance coverage, reducing low birth weight and premature birth, and increasing access to prenatal care.

All responses in this report were given by women with a recently reported birth. Survey methods are explained in the appendix, including guidelines for interpreting the report. The topics in this brief surveillance report are covered in several sections:

1. Alcohol, tobacco and substance use
2. Infant morbidity and mortality
3. Prenatal care and postpartum visits and content
4. Preconception behaviors
5. Sexually transmitted infections/HIV
6. Birth control
7. Violence
8. Infant feeding
9. Infant sleep, maternal morbidity and pregnancy and delivery history
10. Depression and anxiety
11. Delivery types and reasons
12. Healthcare coverage and household income
13. Immunizations

## Interpretation of text and tables

The PRAMS survey requires special weighted calculations to account for the survey design and to allow presentation of population level estimates for all Mississippi resident women with an in-state live birth in 2020 (not just the respondents). “Percent of women” refers to Mississippi residents with an in-state live birth minus those women who adopt infants and other exclusions. This does not include mothers who are excluded according to CDC protocol guidelines: 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 significantly different from each other. This test of significance can be used to describe findings for each PRAMS questionnaire item. Sample sizes for some subpopulations were too small for precise estimates. Responses with relative standard error (RSE) above 30% are suppressed. In the tables of this report, results replaced with a dash (-) indicate an RSE greater than 30%.

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# Before Pregnancy

1. How tall are *you* without shoes?

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

Height and weight were used to calculate Body Mass Index (BMI) before pregnancy.

Women's Body Mass Index before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Underweight, BMI <18.5	2.7	1.4	3.9
Normal weight, BMI 18.5 - 24.9	36.2	32.3	40.2
Overweight, BMI 25.0–29.9	22.8	19.4	26.2
Obese, BMI 30.0+	38.3	34.3	42.2

3. What is *your* date of birth?

Date of birth was used to calculate the woman's age at the time of birth. Women of similar ages were grouped into common age groups used for women of reproductive age.

Women's age group (years)

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
19 and younger	8.3	6.2	10.5
20-24	28.7	25.0	32.4
25-29	31.6	27.9	35.3
30-34	21.9	18.6	25.3
35 and older	9.5	7.2	11.7

**4. Before you got pregnant with your new baby, did you ever have any other babies who were born alive? (Note: Women who said “No” skipped to Question 7.)**

Previous live birth

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had previous live birth	59.8	56.0	63.8

Number of previous live births

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
0	39.5	35.6	43.4
1	31.3	27.6	34.9
2	16.1	13.1	19.2
3-5	12.1	9.4	14.7
≥6	1.1	0.2	1.9

**5. Did the baby born just before your new one weigh 5 pounds, 8 ounces (2.5 kilos) or less at birth?**

For women who have previously had a birth, was the birth weight low ( $\leq 2.5$  kilos)

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a previous low birthweight birth ( $\leq 2.5$ kilos)	16.6	12.9	20.4

**6. Was the baby just before your new one born earlier than 3 weeks before his or her due date?**

Previous preterm birth

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a previous preterm birth (<37 weeks gestation)	15.3	11.7	18.7

**7. 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 during the 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I was dieting (changing my eating habits) to lose weight	27.6	24.0	31.2
b. I was exercising 3 or more days of the week for fitness outside my regular job	33.7	29.9	37.4
c. I was regularly taking prescription medicines other than birth control	23.6	20.2	26.9
d. A health care worker checked me for diabetes	19.6	16.7	23.0
e. I talked to a health care worker about my family medical history	34.6	30.8	38.4

**8. During the 3 months before you got pregnant with your new baby, did you have any of the following health conditions?**

Women's health conditions during the 3 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Type 1 or Type 2 diabetes ( <b>not</b> gestational diabetes or diabetes that starts during pregnancy)	3.2	1.8	4.5
b. High blood pressure or hypertension	8.9	6.7	11.1
c. Depression	18.2	15.1	21.2
d. Asthma	8.3	6.1	10.5
e. Anemia (poor blood, low iron)	20.9	17.8	24.1
f. Heart problems	2.5	1.2	3.7
g. Epilepsy (seizures)	2.2	1.1	3.3
h. Thyroid problems	5.8	3.9	7.7
i. PCOS (polycystic ovarian syndrome)	4.5	2.9	6.1
j. Anxiety	26.2	22.7	29.7
k. Sickle cell	2.2	1.0	3.5

**9. 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?**

Took a vitamin during month before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I didn't take a multivitamin, prenatal vitamin, or folic acid vitamin in the <i>month before</i> I got pregnant	60.3	56.4	64.2
b. 1 to 3 times a week	7.0	5.1	9.0
c. 4 to 6 times a week	3.7	2.1	5.2
d. Every day of the week	29.0	25.3	32.7

**10. In the *12 months before* you got pregnant with your new baby, did you have any health care visits with a doctor, nurse, or other health care worker, including a dental or mental health worker? (Note: Women who said "No" skipped to Question 13.)**

Healthcare visits during the 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Had a healthcare visit in the 12 months before pregnancy	59.2	55.2	63.2

**11. What type of health care visit did you have in the *12 months before* you got pregnant with your new baby? (Check all that apply.)**

Type of healthcare visit during 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Regular checkup at my family doctor's office	44.5	39.4	49.6
b. Regular checkup at my OB/GYN's office	76.4	72.0	80.7
c. Visit for an illness or chronic condition	17.5	13.6	21.3
d. Visit for an injury	7.4	4.7	10.2
e. Visit for family planning or birth control	22.2	18.07	26.4
f. Visit for depression or anxiety	16.0	12.4	19.7
g. Visit to have my teeth cleaned by a dentist or dental hygienist	57.6	52.5	62.7
h. Other	13.5	10.2	16.9

**12. During any of your health care visits in the 12 months before you got pregnant, did a doctor, nurse, or other health care worker do any of the following things?**

Things health care workers did during visit during the 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Tell me to take a vitamin with folic acid	28.7	24.0	33.4
b. Talk to me about maintaining a healthy weight	41.2	36.2	46.3
c. Talk to me about controlling any medical conditions such as diabetes or high blood pressure	19.3	15.4	23.2
d. Talk to me about my desire to have or not have children	39.5	34.4	44.5
e. Talk to me about using birth control to prevent pregnancy	46.4	41.3	51.5
f. Talk to me about how I could improve my health before a pregnancy	34.0	29.2	38.9
g. Talk to me about sexually transmitted infections such as chlamydia, gonorrhea, or syphilis	32.6	27.9	37.3
h. Ask me if I was smoking cigarettes	72.5	67.9	77.1
i. Ask me if someone was hurting me emotionally or physically	37.1	32.2	42.0
j. Ask me if I was feeling down or depressed	48.9	43.8	54.1
k. Ask me about the kind of work I do	54.4	49.3	59.6
l. Test me for HIV (the virus that causes AIDS)	30.8	26.2	35.5

**13. During the month before you got pregnant with your new baby, what kind of health insurance did you have? (Check all that apply.)**

Health insurance coverage during the month before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Private health insurance from my job or the job of my husband or partner	40.9	37.0	44.9
b. Private health insurance from my parents	7.0	5.1	9.0
c. Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	3.0	1.7	4.4
d. Medicaid	25.7	22.3	29.1
e. SCHIP	-	-	-
f. TRICARE or other military health care	4.5	2.8	6.2
g. Indian Health Service	-	-	-
h. Other health insurance	3.3	1.9	4.8
i. I did not have any health insurance during the <i>month before</i> I got pregnant	21.9	18.5	25.3

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**14. During your *most recent pregnancy*, what kind of health insurance did you have for your *prenatal care*? (Check all that apply.)**

Health insurance coverage for prenatal care

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I did not go for prenatal care	2.7	1.3	4.0
b. Private health insurance from my job or the job of my husband or partner	37.9	33.9	41.8
c. Private health insurance from my parents	3.3	2.0	4.6
d. Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	1.9	0.7	3.1
d. Medicaid	63.7	59.8	67.7
e. SCHIP	-	-	-
f. TRICARE or other military health care	3.8	2.2	5.3
g. Indian Health Service	-	-	-
h. Other health insurance	3.8	2.2	5.5
i. I did not have any health insurance for my <i>prenatal care</i>	1.9	0.6	3.1

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**15. What kind of health insurance do you have *now*? (Check all that apply.)**

Health insurance coverage after pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Private health insurance from your job or the job of my husband or partner	34.9	31.1	38.8
b. Private health insurance from my parents	4.9	3.2	6.6
c. Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	-	-	-
d. Medicaid	52.0	48.0	56.0
e. SCHIP	-	-	-
f. TRICARE or other military health care	3.5	2.0	5.0
g. Indian Health Service	-	-	-
h. Other source(s)	3.0	1.6	4.4
i. I do not have health insurance <i>now</i>	8.9	6.6	11.3

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**16. Thinking back to *just before* you got pregnant with your new baby, how did you feel about becoming pregnant?** (Check one answer.) (Note: Women who said anything other than “I wanted to be pregnant later” skipped to Question 18.)

Women’s feelings about becoming pregnant

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
I wanted to be pregnant later	21.5	18.3	24.7
I wanted to be pregnant sooner	8.9	6.6	11.2
I wanted to be pregnant then	39.2	35.2	43.2
I didn’t want to be pregnant then or at any time in the future	8.4	6.3	10.6
I wasn’t sure what I wanted	21.9	18.5	25.3

**17. How much longer did you want to wait to become pregnant?**

How long women wanted to wait to become pregnant

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Less than 1 year	7.5	3.0	12.0
1 year to less than 2 years	23.4	16.3	30.6
2 years to less than 3 years	28.4	20.9	35.9
3 years to 5 years	28.0	21.2	34.0
More than 5 years	10.9	5.3	16.5

## 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.

**18. How many weeks *or* months pregnant were you when you had your first visit for prenatal care?** (Note: Women who said they did not go for prenatal care skipped to Question 23.)

Trimester of first prenatal care visit

	Percent	95% CI	
		Lower	Upper
First trimester	89.5	87.0	91.9
Second trimester	10.5	8.1	12.9
Third trimester	-	-	-

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

Women who started prenatal care during the first trimester

	Percent	95% CI	
		Lower	Upper
Yes	82.7	79.7	85.8
No	15.9	13.0	18.9
No prenatal care	-	-	-

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

Number of prenatal care visits

	Percent	95% CI	
		Lower	Upper
<=8	16.7	13.8	19.7
9-11	27.8	24.2	31.4
≥12	55.5	51.5	59.5

**19. Where did you go most of the time for your prenatal care visits?** (Check one answer.)

Type of place where prenatal care was received

	Percent	95% CI	
		Lower	Upper
a. Hospital Clinic	22.9	19.4	26.3
b. Health Department Clinic	6.2	4.1	8.3
c. MD/HMO	57.6	53.5	61.6
d. Community Health Center	4.2	2.6	5.7
e. Other	9.2	6.9	11.5



**20. 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 healthcare discussions with doctors, nurses or health care workers during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. How smoking during pregnancy could affect my baby	72.2	68.5	75.9
b. Breastfeeding my baby	87.5	84.7	90.2
c. How drinking alcohol during pregnancy could affect my baby	75.3	71.7	78.8
d. Using a seat belt during my pregnancy	52.1	48.0	56.2
e. Medicines that are safe to take during my pregnancy	92.2	90.0	94.4
f. How using illegal drugs could affect my baby	69.1	65.3	72.9
g. Doing tests to screen for birth defects or diseases that run in my family	87.9	85.4	90.5
h. The signs and symptoms of preterm labor (labor more than 3 weeks before the baby is due)	80.7	77.5	83.9
i. What to do if I feel depressed during my pregnancy or after my baby is born	75.7	72.2	79.3
j. Physical abuse to women by their husbands or partners	49.1	45.0	53.2

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

Women's discussions with doctors, nurses or health workers during prenatal visits

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. If I knew how much weight I should gain during pregnancy	55.2	51.1	59.2
b. If I was taking any prescription medication	93.8	91.9	95.6
c. If I was smoking cigarettes	92.3	90.3	94.4
d. If I was drinking alcohol	89.8	87.5	92.2
e. If someone was hurting me emotionally or physically	58.3	54.2	62.3
f. If I was feeling down or depressed	73.8	70.3	77.4
g. If I was using drugs such as marijuana, cocaine, crack, or meth	68.5	64.7	72.3
h. If I wanted to be tested for HIV (the virus that causes AIDS)	48.3	44.2	52.4
i. If I planned to breastfeed my new baby	93.8	91.9	95.7
j. If I planned to use birth control after my baby was born	88.6	86.1	91.1

**22. How did you feel about the prenatal care you got during *your most recent* pregnancy?**

Satisfied with prenatal care

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. The amount of time I had to wait	86.0	83.2	88.8
b. The amount of time the doctor, nurse, or midwife spent with me	88.6	86.0	91.2
c. The advice I got on how to take care of myself	88.7	86.2	91.2
d. The understanding and respect shown toward me as a person	93.8	91.9	95.7

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

Had test for HIV during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had an HIV test during pregnancy	59.7	50.8	59.7

**24. During the 12 months *before the delivery* of your new baby, did a doctor, nurse, or other health care worker offer you a flu shot or tell you to get one?**

Flu shot offered or provider told woman to get a flu shot in the 12 months before delivery

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who were offered or told to get a flu shot during pregnancy	79.2	75.8	82.5

**25. During the 12 months *before the delivery* of your new baby, did you get a flu shot? (Check one answer.)**

Had a flu shot in the 12 months before delivery

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
No	52.3	48.2	56.3
Yes, before my pregnancy	11.1	8.9	13.6
Yes, during my pregnancy	36.6	32.7	40.5

**26. During *your most recent* pregnancy, did you get a Tdap shot or vaccination?**

Had Tdap shot or vaccination during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who got Tdap vaccination during pregnancy	59.0	54.8	63.2

**27. During your most recent pregnancy, did you have your teeth cleaned by a dentist or dental hygienist?**

Teeth cleaned by a dentist or dental hygienist during pregnancy

	Percent	95% CI	
		Lower	Upper
Teeth cleaned by a dentist or dental hygienist	32.1	28.3	35.8

**28. This question is about other care of your teeth during your most recent pregnancy.**

Women's care of teeth during pregnancy

	Percent	95% CI	
		Lower	Upper
a. I knew it was important to care for my teeth and gums during my pregnancy	86.1	83.3	89.0
b. A dental or other health care worker talked with me about how to care for my teeth and gums	45.9	41.9	49.9
c. I had insurance to cover dental care during my pregnancy	71.6	67.8	75.3
d. I needed to see a dentist for a problem	21.4	18.1	24.7
e. I went to a dentist or dental clinic about a problem	15.9	13.0	18.9

**29. During your most recent pregnancy, what kind of problem did you have with your teeth or gums? (Note: Women who did not have any problems with their teeth or gums skipped this question.)**

Problems with teeth or gums

	Percent	95% CI	
		Lower	Upper
a. I had cavities that needed to be filled	51.0	42.4	59.6
b. I had painful, red, or swollen gums	43.7	35.2	52.2
c. I had a toothache	67.6	59.5	75.8
d. I needed to have a tooth pulled	51.8	43.3	60.3
e. I had an injury to my mouth, teeth, or gums	13.1	7.0	19.2
f. I had some other problem with my teeth or gums	18.3	12.2	24.4

**30. During your most recent pregnancy, were you on WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children)? (Note: Women who said "No" skipped to Question 32.)**

Women who were on WIC during pregnancy

	Percent	95% CI	
		Lower	Upper
Women on WIC program during pregnancy	52.5	48.4	56.5

**31. During your most recent pregnancy, when you went for your WIC visits, did you speak with a breastfeeding peer counselor or another WIC staff person about breastfeeding?**

Spoke with a breastfeeding peer counselor or another WIC staff person about breastfeeding			
	Percent	95% CI	
		Lower	Upper
Spoke with a breastfeeding peer counselor or another WIC staff person about breastfeeding	81.4	77.2	85.6

**32. During your most recent pregnancy, did you have any of the following health conditions?**

Health condition during pregnancy			
	Percent	95% CI	
		Lower	Upper
a. Gestational diabetes (diabetes that <b>started</b> during <i>this</i> pregnancy)	8.9	6.6	11.1
b. High blood pressure (that <b>started</b> during <i>this</i> pregnancy), pre-eclampsia or eclampsia	18.8	15.7	21.9
c. Depression	17.1	14.1	20.1
e. Sickle cell	-	-	-

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**33. During your most recent pregnancy, did a doctor, nurse, or other health care worker give you a series of weekly shots of a medicine called progesterone, Makena®, or 17P (17 alpha-hydroxyprogesterone) to try to keep your new baby from being born too early?**

Received shots to prevent preterm birth			
	Percent	95% CI	
		Lower	Upper
Weekly shots of a medicine called progesterone, Makena®, or 17P	7.0	5.1	8.9

**34. During your most recent pregnancy, did a doctor, nurse, or other health care worker tell you that you had any of the following infections?**

Women's discussions with doctor, nurse, or health care workers during pregnancy			
	Percent	95% CI	
		Lower	Upper
a. Genital warts (HPV)	2.4	1.1	3.6
b. Herpes	3.9	2.3	5.4
c. Chlamydia	5.2	3.5	6.9
d. Gonorrhea	2.7	1.3	4.1

e. Pelvic inflammatory disease (PID)	-	-	-
f. Syphilis	-	-	-
g. Group B Strep (Beta Strep)	11.1	8.5	13.6
h. Bacterial vaginosis	7.1	5.1	9.1
i. Trichomoniasis (Trich)	4.3	2.6	6.0
j. Yeast infections	17.3	14.3	20.3
k. Urinary tract infection (UTI)	25.3	21.9	28.8
l. Other	2.2	1.0	3.4

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

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

**35. Have you smoked any cigarettes in the past 2 years?** (Note: Women who said “No” skipped to Question 39.)

Smoking 2 years before pregnancy

	Percent	95% CI	
		Lower	Upper
Women smoked any cigarettes in the past 2 years	22.3	18.9	25.7

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

Smoking 3 months before pregnancy

	Percent	95% CI	
		Lower	Upper
Women who smoked in the 3 months before pregnancy	19.0	15.8	22.2

Number of cigarettes smoked on an average day in the 3 months before pregnancy among women who smoked in the *past 2 years*

	Percent	95% CI	
		Lower	Upper
a. 41 cigarettes or more	-	-	-
b. 21 to 40 cigarettes	-	-	-
c. 11 to 20 cigarettes	21.7	14.4	29.0
d. 6 to 10 cigarettes	18.7	12.3	25.1
e. 1 to 5 cigarettes	28.7	20.9	36.4
f. Less than 1 cigarette	-	-	-
g. I didn't smoke then	14.3	8.0	20.5

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

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

Smoking during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who smoked in last 3 months of pregnancy	9.8	7.4	12.3

Number of cigarettes smoked on an average day in the last 3 months of pregnancy among women who smoked in the *past 2 years*

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. 41 cigarettes or more	-	-	-
b. 21 to 40 cigarettes	-	-	-
c. 11 to 20 cigarettes	-	-	-
d. 6 to 10 cigarettes	8.6	4.0	13.2
e. 1 to 5 cigarettes	25.8	17.8	33.8
f. Less than 1 cigarette	-	-	-
g. I didn't smoke then	55.7	47.0	64.3

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

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

Smoking after pregnancy among

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who smoke now	12.6	10.0	15.2

Number of cigarettes smoked on an average day now among women who smoked in the *past 2 years*

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. 41 cigarettes or more	-	-	-
b. 21 to 40 cigarettes	-	-	-
c. 11 to 20 cigarettes	15.7	9.3	22.2
d. 6 to 10 cigarettes	13.8	8.4	19.1
e. 1 to 5 cigarettes	18.5	12.2	24.9
f. Less than 1 cigarette	-	-	-
g. I don't smoke now	43.5	34.8	52.2

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**39. Have you used any of the following products in the *past 2 years*? (Note: If women said they did not use e-cigarettes or other electronic nicotine products in the past 2 years, skip to Question 42.)**

Other types of nicotine products

	Percent	95% CI	
		Lower	Upper
a. E-cigarettes or other electronic nicotine products	13.1	10.3	15.9
b. Hookah	4.1	2.6	5.6
c. Chew or snus	-	-	-
d. Cigars or cigarillos	6.6	4.6	8.6

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

**40. During the *3 months before* you got pregnant, on average, how often did you use e-cigarettes or other electronic nicotine products?**

Average use of e-cigarettes or other electronic nicotine products 3 months before pregnancy among women who used them in the past 2 years.

	Percent	95% CI	
		Lower	Upper
a. More than once a day	-	-	-
b. Once a day	-	-	-
c. 2-6 days a week	-	-	-
d. 1 day a week or less	13.1	5.7	20.4
e. I did not use e-cigarettes or other electronic nicotine products then	34.0	22.6	45.4

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

**41. During the *last 3 months* of your pregnancy, on average, how often did you use e-cigarettes or other electronic nicotine products?**

Average use of e-cigarettes or other electronic nicotine products during the last 3 months of pregnancy among women who used them in the past 2 years.

	Percent	95% CI	
		Lower	Upper
a. More than once a day	-	-	-
b. Once a day	-	-	-
c. 2-6 days a week	-	-	-
d. 1 day a week or less	-	-	-
e. I did not use e-cigarettes or other electronic nicotine products then	84.9	76.1	93.6

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

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

**42. 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 said “No” skipped to Question 45.)

Drank alcohol 2 years before pregnancy

	Percent	95% CI	
		Lower	Upper
Women who drank alcohol in the past 2 years	59.7	55.7	63.6

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

Number of drinks women had in an average week 3 months before pregnancy among women who drank alcohol in the past 2 years.

	Percent	95% CI	
		Lower	Upper
a. 14 drinks or more a week	-	-	-
b. 8 to 13 drinks a week	-	-	-
c. 4 to 7 drinks a week	9.6	6.5	12.8
d. 1 to 3 drinks a week	30.3	25.4	35.1
e. Less than 1 drink a week	42.2	36.9	47.4
f. I didn't drink then	15.6	11.8	19.4

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

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

Number of alcoholic drinks women had in an average week during the last 3 months of pregnancy among women who drank alcohol in the past 2 years.

	Percent	95% CI	
		Lower	Upper
a. More than 7 drinks a week	-	-	-
b. 4 to 7 drinks a week	-	-	-
c. 1 to 3 drinks a week	-	-	-
d. Less than 1 drink a week	4.6	2.4	6.8
e. I didn't drink then	92.4	89.6	95.2

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).



**Pregnancy can be a difficult time. The next questions are about things that may have happened *before* and *during* your most recent pregnancy.**

**45. 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	
		<i>Lower</i>	<i>Upper</i>
a. A close family member was very sick and had to go into the hospital	19.2	16.1	22.3
b. I got separated or divorced from my husband or partner	5.7	3.9	7.5
c. I moved to a new address	27.7	24.1	31.3
d. I was homeless or had to sleep outside, in a car, or in a shelter	2.3	1.0	3.6
e. My husband or partner lost their job	10.0	7.7	12.4
f. I lost my job even though I wanted to go on working	13.9	11.0	16.8
g. My husband, partner, or I had a cut in work hours or pay	19.2	16.0	22.4
h. I was apart from my husband or partner due to military deployment or extended work-related travel	6.6	4.6	8.6
i. I argued with my husband or partner more than usual	19.8	16.6	23.0
j. My husband or partner said they didn't want me to be pregnant	4.3	2.8	5.7
k. I had problems paying the rent, mortgage, or other bills	14.1	11.3	16.9
l. My husband, partner, or I went to jail	2.5	1.2	3.9
m. Someone very close to me had a problem with drinking or drugs	11.1	8.5	13.7
n. Someone very close to me died	21.7	18.5	25.0

**46. In the 12 months *before* you got pregnant with your new baby, did any of the following people push, hit, slap, kick, choke, or physically hurt you in any other way?**

Physical violence before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. My husband or partner	-	-	-
b. My ex-husband or ex-partner	2.3	1.1	3.5
c. Another family member	-	-	-
d. Someone else	-	-	-

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**47. During your most recent pregnancy, did any of the following people push, hit, slap, kick, choke, or physically hurt you in any other way?**

Physical violence during pregnancy

	Percent	95% CI	
		Lower	Upper
a. My husband or partner	-	-	-
b. My ex-husband or ex-partner	-	-	-
c. Another family member	-	-	-
d. Someone else	-	-	-

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**48. During your most recent pregnancy, did any of the following things happen to you?**

Physical abuse during pregnancy

	Percent	95% CI	
		Lower	Upper
a. My husband or partner threatened me or made me feel unsafe in some way	3.0	1.6	4.4
b. I was frightened for my safety or my family's safety because of the anger or threats of my husband or partner	1.4	0.6	2.3
c. My husband or partner tried to control my daily activities, for example, controlling who I could talk to or where I could go	4.4	2.8	6.0
d. My husband or partner forced me to take part in touching or any sexual activity when I did not want to	-	-	-

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

## After Pregnancy

### 50. Did you plan or schedule a Cesarean delivery (C-section) at least one week before your new baby was born?

Planned or scheduled C-section	Percent	95% CI	
		Lower	Upper
Planned C-section	24.5	21.0	28.0

### 51. How was your new baby delivered? (Note: Women who said “Vaginally” skipped to Question 54.)

Delivery type	Percent	95% CI	
		Lower	Upper
Vaginally	59.9	55.9	63.8
C-section	40.1	36.2	44.1

### 52. What was the reason that your new baby was born by Cesarean delivery (C-section)? (Check all that apply).

Reasons for C-section	Percent	95% CI	
		Lower	Upper
a. I had a previous Cesarean delivery (C-section)	44.5	38.2	50.8
b. My baby was in the wrong position (such as breech)	17.2	15.6	21.9
c. I was past my due date	-	-	-
d. My health care provider worried that my baby was too big	10.5	6.4	14.7
e. I had a medical condition that made labor dangerous for me (such as heart condition, physical disability)	6.2	3.6	8.8
f. I had a complication in my pregnancy (such as pre-eclampsia, placental problems, infection, preterm labor)	22.5	17.8	27.1
g. My health care provider tried to induce my labor, but it didn't work	20.7	15.5	25.8
h. Labor was taking too long	17.7	12.8	22.6
i. The fetal monitor showed that my baby was having problems before or during labor (fetal distress)	14.2	10.7	17.8
j. I wanted to schedule my delivery	6.8	4.1	9.5
k. I didn't want to have my baby vaginally	4.8	2.4	6.9
l. Other	14.1	10.6	17.7

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

**53. Which statement best describes whose idea it was for you to have a Cesarean delivery (C-section)? (Check one answer.)**

Whose idea it was for you to have a C-section

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. My health care provider recommended a Cesarean delivery <i>before</i> I went into labor	58.2	51.9	64.6
b. My health care provider recommended a Cesarean delivery while I was in labor	31.3	25.3	37.2
c. I asked for the Cesarean delivery	10.5	6.4	14.5

**54. How much weight did you gain during your most recent pregnancy?**

Weight gain during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Did not gain weight	4.4	2.9	5.9
b. 1-10 pounds	10.7	8.2	13.2
c. 11-20 pounds	20.5	17.3	23.7
d. 21-30 pounds	25.5	22.0	29.0
e. 31-40 pounds	22.1	18.8	25.5
f. 41 or more pounds	16.8	13.8	19.8

**55. After your baby was delivered, was he or she put in an intensive care unit (NICU)?**

Baby in NICU

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
The baby was in NICU after he/she was born	11.7	9.6	13.8

**56. After your baby was delivered, how long did he or she stay in the hospital? (Note: Women who said their baby is still in the hospital skipped to Question 59.)**

Baby's length of stay in the hospital

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Less than 24 hours (<1 day)	2.4	1.1	3.7
b. 24 to 48 hours (1-2 days)	62.6	58.8	66.4
c. 3 to 5 days	26.5	23.0	30.1

d. 6 to 14 days	4.0	2.6	5.4
e. More than 14 days	3.8	3.1	4.6
f. My baby was not born in a hospital	-	-	-
g. My baby is still in the hospital	-	-	-

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**57. Is your baby alive now?** (*Note: Women who said “No” skipped to Question 72.*)

Baby still living

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Baby alive now	99.3	98.8	99.8

**58. Is your baby living with you now?** (*Note: Women who said “No” skipped to Question 72.*)

Baby living with mother now

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Baby living with mother now	99.8	99.4	100.0

**59. Before or after your new baby was born, did you receive information about breastfeeding from any of the following sources?**

Sources of women’s information about breastfeeding

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. My doctor	81.3	78.1	84.5
b. A nurse, midwife, or doula	61.8	57.8	65.8
c. A breastfeeding or lactation specialist	67.4	63.5	71.3
d. My baby’s doctor or health care provider	67.5	63.6	71.3
e. A breastfeeding support group	26.1	22.4	29.8
f. A breastfeeding hotline or toll-free number	9.7	7.2	12.1
g. Family or friends	57.3	53.2	61.4
h. Other	8.6	6.0	11.2

**60. Did you ever breastfeed or pump breast milk to feed your new baby, even for a short period of time?** (Note: Women who said “No” skipped to Question 65.)

Breastfeeding initiation	Percent	95% CI	
		Lower	Upper
Women who ever breastfed or pumped breast milk to feed baby	71.8	68.1	75.4

**61. Are you currently breastfeeding or feeding pumped milk to your new baby?** (Note: Women who said “Yes” skipped to Question 63.)

Breastfeeding continuation (at time woman responded to survey)	Percent	95% CI	
		Lower	Upper
Women who currently breastfeed or feed pumped milk to baby	38.9	34.2	43.6

**62. 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	13.5	9.3	17.7
1-7 weeks	49.0	42.9	55.1
8-23 weeks	36.4	30.5	42.2
24 weeks or longer	-	-	-

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

**63. This question asks about things that may have happened at the hospital where your new baby was born.**

Things that happened at the hospital where I had my baby	Percent	95% CI	
		Lower	Upper
a. Hospital staff gave me information about breastfeeding	94.6	92.4	96.8
b. My baby stayed in the same room with me at the hospital	89.8	87.5	92.1
c. I breastfed my baby in the hospital	86.2	83.1	89.3
d. Hospital staff helped me learn how to breastfeed	84.1	80.5	87.7
e. I breastfed in the first hour after my baby was born	70.4	66.0	74.7
f. My baby was placed in skin-to-skin contact within the first hour of life	81.3	77.7	84.9
g. My baby was fed only breast milk at the hospital	50.7	45.8	55.6

h.	Hospital staff told me to breastfeed whenever my baby wanted	84.3	80.9	87.8
i.	The hospital gave me a breast pump to use	33.6	29.1	38.0
j.	The hospital gave me a gift pack with formula	58.2	53.4	63.0
k.	The hospital gave me a telephone number to call for help with breastfeeding	71.9	67.4	76.4
l.	Hospital staff gave my baby a pacifier	41.7	37.0	46.5

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

Baby's first time drinking liquids other than breast milk

	Percent	95% CI	
		Lower	Upper
<1 week	55.0	49.7	60.4
1-7 weeks	21.5	17.2	29.5
8-23 weeks	21.4	17.0	25.8
24 weeks or longer	-	-	-

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**65. Did anyone suggest that you *not* breastfeed your new baby? (Note: Women who said "No" skipped to Question 67.)**

Was woman suggested not to breastfeed

	Percent	95% CI	
		Lower	Upper
Women who were suggested not to breastfeed	8.3	6.0	10.6

**66. Who suggested that you *not* breastfeed your new baby? (Check all that apply.)**

Who suggested not to breastfeed

	Percent	95% CI	
		Lower	Upper
a. My husband or partner	17.7	7.4	27.9
b. My mother, father, or in-laws	29.0	15.9	42.0
c. Other family member or relative	26.4	14.1	38.7
d. My friends	28.0	14.5	41.5
e. My baby's doctor, nurse, or other health care worker	30.9	18.0	43.7
f. My doctor, nurse, or other health care worker	24.3	12.5	36.1
h. Other	-	-	-

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**67. In which *one* position do you most often lay your baby down to sleep now? (Check one answer.)**

Baby's sleeping position

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. On his or her side	14.8	11.9	17.8
b. On his or her back	64.3	60.4	68.2
c. On his or her stomach	15.1	12.2	18.1
d. On his or her side/back	2.9	1.6	4.1
e. On his or her side/stomach	-	-	-
f. On his or her back/stomach	-	-	-
g. All 3 positions	1.8	0.8	2.9

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**68. In the past 2 weeks, how often has your new baby slept alone in his or her own crib or bed?**

*(Note: Women who said "Never" skipped to Question 70.)*

Baby slept alone in past 2 weeks

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Always	48.7	44.6	52.7
b. Often	17.8	14.7	21.0
c. Sometimes	14.6	11.7	17.5
d. Rarely	7.2	5.0	9.4
e. Never	11.7	9.1	14.3

**69. When your new baby sleeps alone, is his or her crib or bed in the same room where you sleep?**

Baby sleeps in the same room as mother

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Room sharing	82.0	78.5	85.5



**70. Listed below are some more things about how babies sleep. How did your new baby usually sleep in the past 2 weeks?**

Baby's sleep environment

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. In a crib, bassinet, or pack and play	83.9	80.8	86.9
b. On a twin or larger mattress or bed	40.4	36.4	44.5
c. On a couch, sofa, or armchair	10.7	8.1	13.2
d. In an infant car seat or swing	44.4	40.0	48.5
e. In a sleeping sack or wearable blanket	29.0	25.2	32.8
f. With a blanket	49.8	45.7	53.9
g. With toys, cushions, or pillows, including nursing pillows	15.6	12.6	18.6
h. With crib bumper pads (mesh or non-mesh)	17.7	14.6	20.8

**71. Did a doctor, nurse, or other health care worker tell you any of the following things?**

Safe sleep discussion with health care providers

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Place my baby on his or her back to sleep	92.0	89.8	94.2
b. Place my baby to sleep in a crib, bassinet, or pack and play	87.3	84.5	90.1
c. Place my baby's crib or bed in my room	58.6	54.6	62.7
d. What things should and should not go in bed with my baby	89.5	86.9	92.1

**72. 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 having their tubes tied, using birth control pills, condoms, withdrawal, or natural family planning. (*Note: Women who said "Yes" skipped to Question 74.*)

Postpartum birth control

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Woman and/or husband or partner were using birth control	77.4	73.9	80.8

**73. What are your reasons or your husband's or partner's reasons for not doing anything to keep from getting pregnant *now*? (Check all that apply.)**

Reasons woman and/or husband or partner are not using birth control now

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I want to get pregnant	18.0	11.4	24.7
b. I am pregnant now	-	-	-
c. I had my tubes tied or blocked	-	-	-
d. I don't want to use birth control	49.3	40.6	58.1
e. I am worried about side effects from birth control	44.4	35.7	53.1
f. I am not having sex	23.6	16.1	31.1
g. My husband or partner doesn't want to use anything	18.6	11.8	25.3
h. I have problems paying for birth control	-	-	-
g. Other	14.8	8.8	20.8

*Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).*

**74. What kind of birth control are you or your husband or partner using *now* to keep from getting pregnant? (Check all that apply.) (Note: Women who said they or their husband/partner were not doing anything to keep from getting pregnant now skipped this question.)**

Types of birth control using now

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Tubes tied or blocked (female sterilization or Essure®)	14.9	11.5	18.3
b. Vasectomy (male sterilization)	2.9	1.3	4.5
c. Birth control pills	32.9	28.6	37.2
d. Condoms	28.6	24.4	32.7
e. Shots or injections (Depo-Provera®)	10.6	7.9	13.3
f. Contraceptive patch (OrthoEvra®) or vaginal ring (NuvaRing®)	3.0	1.6	4.5
g. IUD (including Mirena®, ParaGard®, Liletta®, or Skyla®)	11.1	8.2	13.9
h. Contraceptive implant in the arm (Nexplanon® or Implanon®)	5.5	3.5	7.5
i. Natural family planning (including rhythm method)	3.4	1.7	5.1
j. Withdrawal (pulling out)	27.1	23.0	31.1
k. Not having sex (abstinence)	13.4	10.4	16.4
l. Other	-	-	-

**75. Since your new baby was born, have you had a postpartum checkup for yourself? A postpartum checkup is the regular checkup a woman has about 4-6 weeks after she gives birth. (Note: Women who said “No” skipped to Question 77.)**

Postpartum checkup

	Percent	95% CI	
		Lower	Upper
Women who had a postpartum checkup	86.9	84.1	89.7

**76. During your postpartum checkup, did a doctor, nurse, or other health care worker do any of the following things?**

Things done by health care providers during a postpartum checkup

	Percent	95% CI	
		Lower	Upper
a. Tell me to take a vitamin with folic acid	49.8	45.3	54.2
b. Talk to me about healthy eating, exercise, and losing weight gained during pregnancy	58.9	54.6	63.2
c. Talk to me about how long to wait before getting pregnant again	44.3	40.0	48.6
d. Talk to me about birth control methods I can use after giving birth	87.3	84.4	90.2
e. Give or prescribe me a contraceptive method such as the pill, patch, shot (Depo-Provera®), NuvaRing®, or condoms	55.7	51.3	60.0
f. Insert an IUD (Mirena®, ParaGard®, Liletta®, or Skyla®) or a contraceptive implant (Nexplanon® or Implanon®)	16.7	13.5	19.9
g. Ask me if I was smoking cigarettes	56.2	51.8	60.5
h. Ask me if someone was hurting me emotionally or physically	48.0	43.7	52.4
i. Ask me if I was feeling down or depressed	81.5	78.2	84.8
j. Test me for diabetes	24.6	20.9	28.3

**77. Since your new baby was born, how often have you felt down, depressed, or hopeless?**

Feeling down, depressed, or hopeless

	Percent	95% CI	
		Lower	Upper
a. Always	2.4	1.2	3.6
b. Often	9.0	6.7	11.3
c. Sometimes	24.7	21.2	28.2
d. Rarely	25.6	22.1	29.2
e. Never	38.3	34.4	42.2

**78. Since your new baby was born, how often have you had little interest or little pleasure in doing things you usually enjoyed?**

Little interest or little pleasure in doing things women usually enjoyed

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Always	5.3	3.5	7.1
b. Often	10.3	7.8	12.8
c. Sometimes	23.2	19.8	26.6
d. Rarely	23.0	19.6	26.4
e. Never	38.2	34.2	42.1

The last questions are about the time during the *12 months before your new baby was born.*

**79. 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.**

Annual household income before taxes

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. \$16,000 or less	24.6	21.0	28.1
b. \$16,001 to \$40,000	37.8	33.8	41.9
c. More than \$40,000	37.6	33.5	41.7

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

Number of people who depended on the income during 12 months before birth

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
1	11.3	8.8	13.8
2	32.2	28.3	36.0
3	28.3	24.6	32.0
4	16.0	12.9	19.2
5	7.9	5.5	10.3
6	1.7	0.7	2.7
7	-	-	-
8	-	-	-
9	-	-	-
10	-	-	-

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes).

# 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. Forty-six states, the District of Columbia, New York City, Northern Mariana Islands, and Puerto Rico currently participate in this project. Several other states, conduct PRAMS-like surveys.

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 women at risk for health problems and to monitor progress over time. At the national level, PRAMS represents 81% of all US births. For year 2020 births, the Phase VIII 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 2020, Mississippi PRAMS sampled 1,643 mothers (1,012 respondents generalizing to a PRAMS-eligible population of 32,928). 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 a non-resident or gave birth out of state, mother's last name was missing in birth certificates, or the birth certificate process was delayed by more than 6 months.

## **Data Collection**

Procedures and instruments are 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 9.4 software was used for survey analysis.

## **Statistical Methods**

Information in this brief surveillance report was generated using the SAS survey analysis procedures to properly analyze complex weighted sample data. The statistical analysis included the appropriate weight and strata variables. The analysis produced the unweighted count, weighted count, weighted percentage and 95% confidence interval for the responses to each. Response categories with non-overlapping 95% confidence intervals were determined to be statistically significant from each other.

## **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 prevalence of behaviors or health problems of women who have recently had a live birth and are useful for program planning, monitoring trends and assessing a state's need for services. The weighted response rate of the 2020 PRAMS sample was 60.4%, which is above the 50% response rate required by CDC. This means that the responses of women to the 2020 PRAMS survey can be generalized to all women with a live birth in Mississippi.

### **Limitations:**

Sample sizes for some subpopulations and question response categories were too small for precise estimates. Responses with relative standard error above 30% are suppressed. In the tables of this report, results replaced

with a dash (-) indicate a relative standard error greater than 30%. PRAMS questionnaire data are self-reported and may be subject to recall bias, reporting bias and response mode bias (e.g., whether the woman answered the mail survey or the phone survey). The answer also depends on how the survey respondent interpreted the questions. If respondents interpret differently than expected, inaccurate information may result.

### Survey Topics

Survey topics was designed to provide guidance for PRAMS data users on noteworthy question or topic areas in the PRAMS survey. The topics were originally derived 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 description of the question is provided.

### Sample and Population, Year 2020 Births

Below is a description of the maternal characteristics of MS PRAMS respondents (unweighted number of respondents), weighted estimates (numbers and percentages of MS residents with an in-state live birth) and the 95% confidence interval (CI).

<b>Maternal characteristics</b>	<b>Unweighted counts</b>	<b>Weighted counts</b>	<b>Weighted percent</b>	<b>95% CI <i>Lower</i></b>	<b>95% CI <i>Upper</i></b>
<b>Age (years)</b>					
≤19	97	2749	8.3	6.2	10.5
20-24	301	9451	28.7	25.0	32.4
25-29	308	10391	31.6	27.9	35.3
30-34	199	7223	21.9	18.6	25.3
35 and older	107	3113	9.4	7.2	11.7
Total	1012	32928	100.0		
<b>Race</b>					
White	441	17379	52.8	48.8	56.8
Black	521	13301	40.4	36.5	44.2
Other	50	2249	6.8	4.5	9.1
Total	1012	32928	100.0		
<b>Education</b>					
Less than high school	126	3960	12.0	9.2	14.8
High school	327	10414	31.6	27.8	35.5
Some college	357	11274	34.2	30.6	37.9
College graduate	202	6229	22.1	18.9	25.4
Total	1012	32928	100.0		
<b>Marital Status</b>					
Married	388	14961	45.4	41.4	49.4
Not Married	624	17967	54.6	50.6	58.6
Total	1012	32928	100.0		