



MISSISSIPPI STATE DEPARTMENT OF HEALTH

2022

**Mississippi PRAMS
Surveillance Report**

Acknowledgments

Success for the 2022 Mississippi Pregnancy Risk Assessment Monitoring System (PRAMS) Surveillance Report was made possible through the support and effort of many individuals who believe this information is vital to the health and well-being of new mothers and their infants. Sincere appreciation is extended to the mothers who participated in the survey and contributed directly to the quality of the resulting surveillance report.

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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 and inform policymakers and the general public.

Mississippi PRAMS (MS PRAMS) addresses several 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, increasing access to prenatal care, and improving the health of women before, during and just after pregnancy.

All responses in this report were given by women who reported a birth in 2022. Survey methods are explained in the appendix, including guidelines for interpreting the report. The topics in this surveillance report are covered in several sections:

1. Alcohol, tobacco/e-cigarette and substance use
2. Birth control
3. Depression and anxiety
4. Discrimination
5. Healthcare coverage and household income
6. Infant health and infant care behaviors
7. Maternal health care, health and behaviors
8. Pregnancy intent
9. Social determinants of health
10. Violence

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 2022 (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 (see the Appendix for more information about survey methods and the PRAMS sample). 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

The following questions are related to the medical history and health behaviors of women before their most recent 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 the woman's Body Mass Index (BMI) before pregnancy.

Body Mass Index before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Underweight, BMI <18.5	4.1	1.8	6.5
Normal weight, BMI 18.5 - 24.9	32.4	26.8	38.0
Overweight, BMI 25.0–29.9	26.1	20.8	31.3
Obese, BMI 30.0+	37.3	31.6	43.0

3. **What is your date of birth?**

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

Age group (years)

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
19 and younger	9.0	5.4	12.6
20-24	26.9	21.5	32.3
25-29	33.4	27.6	39.1
30-34	19.2	15.1	23.2
35 and older	11.6	8.3	14.9

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 a previous live birth	58.5	52.5	64.4

Number of previous live births

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
0	40.3	34.5	46.2
1	30.4	25.0	35.7
2	16.5	12.3	20.7
>3	12.8	9.1	16.6

5. Did the baby born just before your new one weigh 5 pounds, 8 ounces (2500 grams) or less at birth?

For women who have previously had a birth, was the birth weight of the previous baby less than 2500 grams

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a previous low birthweight birth ($\leq 2500\text{g}$)	26.3	19.7	32.9

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)	22.7	16.4	29.0

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	
		Lower	Upper
a. I was dieting (changing my eating habits) to lose weight	25.1	20.2	30.1
b. I was exercising 3 or more days of the week for fitness outside my regular job	36.4	30.7	42.1
c. I was regularly taking prescription medicines other than birth control	26.3	21.3	31.3
d. A health care worker checked me for diabetes	18.9	14.5	23.4
e. I talked to a health care worker about my family medical history	32.0	26.6	37.5

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	
		Lower	Upper
a. Type 1 or Type 2 diabetes (not gestational diabetes or diabetes that starts during pregnancy)	-	-	-
b. High blood pressure or hypertension	10.3	6.9	13.6
c. Depression	19.0	14.4	23.6
d. Asthma	10.2	6.6	13.9
e. Anemia (poor blood, low iron)	24.2	19.0	29.4
f. Heart problems	-	-	-
g. Epilepsy (seizures)	-	-	-
h. Thyroid problems	4.3	1.9	6.7
i. PCOS (polycystic ovarian syndrome)	4.1	1.9	6.3
j. Anxiety	29.6	24.2	34.9
k. Sickle cell	-	-	-

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

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 vitamin containing folic acid?

Took a vitamin during the month before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I didn't take a multivitamin, prenatal vitamin, or vitamin containing folic acid in the <i>month before</i> I got pregnant	56.0	50.2	61.9
b. 1 to 3 times a week	6.3	3.4	9.1
c. 4 to 6 times a week	4.3	1.8	6.8
d. Every day of the week	33.4	27.9	38.9

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	60.8	55.0	66.6

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 check-up at my family doctor's office	37.9	30.7	45.1
b. Regular check-up at my OB/GYN's office	59.8	52.4	67.2
c. Visit for an illness or chronic condition	15.3	9.9	20.6
d. Visit for an injury	-	-	-
e. Visit for family planning or birth control	17.9	12.1	23.7
f. Visit for depression or anxiety	17.2	11.5	22.9
g. Visit to have my teeth cleaned by a dentist or dental hygienist	54.9	47.6	62.3
h. Other	15.1	9.9	20.4

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

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 in the 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Tell me to take a vitamin with folic acid	27.2	20.5	34.0
b. Talk to me about maintaining a healthy weight	32.9	26.0	39.7
c. Talk to me about controlling any medical conditions such as diabetes or high blood pressure	17.9	12.4	23.5
d. Talk to me about my desire to have or not have children	37.1	29.8	44.4
e. Talk to me about using birth control to prevent pregnancy	42.7	35.2	50.2
f. Talk to me about how I could improve my health before a pregnancy	34.5	27.3	41.7
g. Talk to me about sexually transmitted infections such as chlamydia, gonorrhea, or syphilis	31.4	24.3	38.5
h. Ask me if I was smoking cigarettes	72.6	65.7	79.4
i. Ask me if someone was hurting me emotionally or physically	39.3	31.9	46.7
j. Ask me if I was feeling down or depressed	48.9	41.4	56.5
k. Ask me about the kind of work I do	52.9	45.3	60.4
l. Test me for HIV (the virus that causes AIDS)	26.1	19.8	32.5

The next questions are about health insurance coverage before, during and after a woman’s most recent pregnancy.

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	37.4	31.7	43.0
b. Private health insurance from my parents	8.5	5.1	11.9
c. Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	3.6	1.7	5.6
d. Medicaid	32.6	27.0	38.1
e. SCHIP	-	-	-
f. TRICARE or other military health care	3.5	1.5	5.5
g. Indian Health Service	-	-	-
h. Other health insurance	5.1	2.4	7.9
i. I did not have any health insurance during the <i>month before</i> I got pregnant	17.5	13.0	22.0

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.) (Note: Women who said “I did not go for prenatal care [response 14a]”, skipped to Question 15.)

Health insurance coverage for prenatal care

	Percent	95% CI	
		Lower	Upper
a. I did not go for prenatal care	5.3	2.7	7.9
b. Private health insurance from my job or the job of my husband or partner	35.5	29.7	41.2
c. Private health insurance from my parents	6.3	3.2	9.4
d. Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	-	-	-
d. Medicaid	57.5	51.4	63.5
e. SCHIP	-	-	-
f. TRICARE or other military health care	3.7	1.6	5.8
g. Indian Health Service	-	-	-
h. Other health insurance	-	-	-
i. I did not have any health insurance for my <i>prenatal care</i>	-	-	-

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	
		Lower	Upper
a. Private health insurance from your job or the job of my husband or partner	33.8	28.2	39.3
b. Private health insurance from my parents	5.0	2.4	7.6
c. Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	-	-	-
d. Medicaid	50.5	44.6	56.4
e. SCHIP	-	-	-
f. TRICARE or other military health care	3.8	1.7	5.8
g. Indian Health Service	-	-	-
h. Other health insurance	-	-	-
i. I do not have health insurance <i>now</i>	8.3	5.0	11.6

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	23.7	18.7	28.7
I wanted to be pregnant sooner	11.7	8.0	15.5
I wanted to be pregnant then	38.0	32.2	43.8
I didn’t want to be pregnant then or at any time in the future	7.3	4.3	10.3
I wasn’t sure what I wanted	19.2	14.5	23.9

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	-	-	-
1 year to less than 2 years	31.6	20.3	42.9
2 years to less than 3 years	27.5	16.1	39.0
3 years to 5 years	20.9	10.9	31.0
More than 5 years	-	-	-

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

During Pregnancy

The next questions are about the prenatal care received by the woman during her most recent pregnancy. Prenatal care includes visits to a doctor, nurse, or other health care worker before the baby was born to get check-ups 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	89.8	86.3	93.4
Second trimester	9.4	6.0	12.8
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	84.8	80.5	89.2
No	14.0	9.7	18.3
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	20.1	15.4	24.8
9-11	24.9	20.0	29.8
≥12	54.9	49.1	60.8

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	
		<i>Lower</i>	<i>Upper</i>
a. Private Doctor's Office (MD/HMO)	54.3	48.4	60.3
b. Hospital Clinic	22.5	17.6	27.5
c. Health Department Clinic	4.2	1.8	6.7
d. Community or Family Health Clinic	10.5	6.9	14.2
e. Other	8.4	4.8	11.9

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	63.4	57.6	69.2
b. Breastfeeding my baby	82.4	77.7	87.1
c. How drinking alcohol during pregnancy could affect my baby	67.4	61.7	73.0
d. Using a seat belt during my pregnancy	49.1	43.1	55.0
e. Medicines that are safe to take during my pregnancy	88.8	84.9	92.8
f. How using illegal drugs could affect my baby	60.0	54.2	65.9
g. Doing tests to screen for birth defects or diseases that run in my family	82.6	77.7	87.4
h. The signs and symptoms of preterm labor (labor more than 3 weeks before the baby is due)	74.4	69.2	79.7
i. What to do if I feel depressed during my pregnancy or after my baby is born	71.8	66.3	77.2
j. Physical abuse to women by their husbands or partners	45.4	39.4	51.4

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	51.4	45.4	57.4
b. If I was taking any prescription medication	90.7	87.2	94.2
c. If I was smoking cigarettes	84.2	79.8	88.6
d. If I was drinking alcohol	83.7	79.3	88.2
e. If someone was hurting me emotionally or physically	57.5	51.6	63.4
f. If I was feeling down or depressed	73.6	68.3	78.9
g. If I was using drugs such as marijuana, cocaine, crack, or meth	67.6	62.0	73.2
h. If I wanted to be tested for HIV (the virus that causes AIDS)	50.4	44.4	56.4
i. If I planned to breastfeed my new baby	87.1	83.0	91.2
j. If I planned to use birth control after my baby was born	84.8	80.4	89.1

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

Satisfaction with prenatal care

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. The amount of time I had to wait	78.2	73.3	83.1
b. The amount of time the doctor, nurse, or midwife spent with me	80.8	76.1	85.6
c. The advice I got on how to take care of myself	83.2	78.8	87.7
d. The understanding and respect shown toward me as a person	91.4	88.0	94.8

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	52.5	45.6	59.4

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	78.2	73.2	83.1

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	63.3	57.6	69.0
Yes, before my pregnancy	8.1	4.9	11.3
Yes, during my pregnancy	28.6	23.3	33.9

26. During *your most recent pregnancy*, did you get a Tdap (a tetanus booster that also protects against pertussis (whooping cough)) 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	52.4	46.3	58.4

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

Had teeth cleaned by a dentist or dental hygienist during pregnancy	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Teeth cleaned by a dentist or dental hygienist	35.4	29.7	41.0

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	87.8	83.8	91.8
b. A dental or other health care worker talked with me about how to care for my teeth and gums	45.4	39.5	51.4
c. I had insurance to cover dental care during my pregnancy	69.5	63.9	75.0
d. I <u>needed</u> to see a dentist for a problem	21.5	16.7	26.3
e. I <u>went</u> to a dentist or dental clinic about a problem	13.3	9.4	17.2

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 to Question 30.)

Problems with teeth or gums

	Percent	95% CI	
		Lower	Upper
a. I had cavities that needed to be filled	44.1	31.1	57.1
b. I had painful, red, or swollen gums	42.3	28.8	55.7
c. I had a toothache	62.0	49.3	74.8
d. I needed to have a tooth pulled	47.6	34.5	60.8
e. I had an injury to my mouth, teeth, or gums	-	-	-
f. I had some other problem with my teeth or gums	34.7	22.2	47.3

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

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	47.3	41.4	53.2

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	78.2	71.0	85.4

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

Health conditions during pregnancy

	Percent	95% CI	
		Lower	Upper
a. Gestational diabetes (diabetes that started during <i>this</i> pregnancy)	9.7	6.4	13.0
b. High blood pressure (that started during <i>this</i> pregnancy), pre-eclampsia or eclampsia	24.4	19.4	29.5
c. Depression	20.5	15.6	25.4
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	4.5	2.3	6.7

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?

Infections during pregnancy

	Percent	95% CI	
		Lower	Upper
a. Genital warts (HPV)	-	-	-
b. Herpes	3.9	1.7	6.2
c. Chlamydia	3.8	1.7	6.0
d. Gonorrhea	-	-	-
e. Pelvic inflammatory disease (PID)	-	-	-
f. Syphilis	-	-	-
g. Group B Strep (Beta Strep)	14.6	10.4	18.8
h. Bacterial vaginosis	8.7	5.6	11.8
i. Trichomoniasis (Trich)	-	-	-
j. Yeast infections	14.7	10.6	18.9
k. Urinary tract infection (UTI)	23.9	18.8	29.0
l. Other	-	-	-

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

The next questions are about smoking cigarettes, the use of other tobacco products, and the use of e-cigarettes or other electronic nicotine products 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 in the past 2 years

	Percent	95% CI	
		Lower	Upper
Women smoked any cigarettes in the past 2 years	14.0	9.9	18.0

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	11.4	7.7	15.1

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	
		<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	30.8	15.4	46.1
e. 1 to 5 cigarettes	27.9	13.2	42.6
f. Less than 1 cigarette	-	-	-
g. I didn't smoke then	-	-	-

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	5.8	3.2	8.4

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	-	-	-
e. 1 to 5 cigarettes	-	-	-
f. Less than 1 cigarette	-	-	-
g. I didn't smoke then	60.1	44.9	75.3

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who smoke now	7.5	4.6	10.5

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	-	-	-
d. 6 to 10 cigarettes	-	-	-
e. 1 to 5 cigarettes	-	-	-
f. Less than 1 cigarette	-	-	-
g. I don't smoke now	48.1	32.2	64.0

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	
		<i>Lower</i>	<i>Upper</i>
a. E-cigarettes or other electronic nicotine products	17.8	13.2	22.4
b. Hookah	-	-	-
c. Chew or snus	-	-	-
d. Cigars or cigarillos	6.6	3.4	9.8

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	
		<i>Lower</i>	<i>Upper</i>
a. More than once a day	64.6	51.3	77.9
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	18.0	7.6	28.4

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	
		<i>Lower</i>	<i>Upper</i>
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	83.8	73.5	94.1

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 in the past 2 years

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who drank alcohol in the past 2 years	60.0	54.1	65.9

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	
		<i>Lower</i>	<i>Upper</i>
a. 14 drinks or more a week	-	-	-
b. 8 to 13 drinks a week	-	-	-
c. 4 to 7 drinks a week	6.8	3.3	10.4
d. 1 to 3 drinks a week	27.2	20.2	34.1
e. Less than 1 drink a week	46.9	39.2	54.6
f. I didn't drink then	14.5	9.1	19.9

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	
		<i>Lower</i>	<i>Upper</i>
a. 1 or more drinks a week	-	-	-
b. Less than 1 drink a week	7.4	3.3	11.6
c. I didn't drink then	88.7	83.8	93.6

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* the woman’s 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	
		Lower	Upper
a. A close family member was very sick and had to go into the hospital	24.7	19.8	29.7
b. I got separated or divorced from my husband or partner	7.0	4.0	10.1
c. I moved to a new address	33.5	27.8	39.1
d. I was homeless or had to sleep outside, in a car, or in a shelter	-	-	-
e. My husband or partner lost their job	9.8	6.1	13.4
f. I lost my job even though I wanted to go on working	11.1	7.4	14.9
g. My husband, partner, or I had a cut in work hours or pay	12.7	8.7	16.7
h. I was apart from my husband or partner due to military deployment or extended work-related travel	5.8	3.0	8.7
i. I argued with my husband or partner more than usual	20.2	15.5	25.0
j. My husband or partner said they didn’t want me to be pregnant	6.0	3.2	8.8
k. I had problems paying the rent, mortgage, or other bills	19.1	14.4	23.8
l. My husband, partner, or I went to jail	-	-	-
m. Someone very close to me had a problem with drinking or drugs	11.0	7.2	14.8
n. Someone very close to me died	23.4	18.3	28.4

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

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	
		Lower	Upper
a. My husband or partner	-	-	-
b. My ex-husband or ex-partner	4.4	1.8	7.0
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	
		<i>Lower</i>	<i>Upper</i>
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?

Types of physical violence or abuse during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. My husband or partner threatened me or made me feel unsafe in some way	-	-	-
b. I was frightened for my safety or my family's safety because of the anger or threats of my husband or partner	-	-	-
c. My husband or partner tried to control my daily activities, for example, controlling who I could talk to or where I could go	3.9	1.6	6.2
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

The following questions are related to the women’s delivery, delivery methods, postpartum health and behaviors, and postpartum checkup and infant health, breastfeeding, sleep position and environment, and well-baby checkups.

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	
		<i>Lower</i>	<i>Upper</i>
Planned C-section	19.7	15.1	24.3

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

Delivery type	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Vaginally	66.4	60.9	71.9
C-section	33.6	28.1	39.1

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	
		<i>Lower</i>	<i>Upper</i>
a. I had a previous cesarean delivery (C-section)	38.5	29.3	47.8
b. My baby was in the wrong position (such as breech)	12.7	7.2	18.2
c. I was past my due date	-	-	-
d. My health care provider worried that my baby was too big	-	-	-
e. I had a medical condition that made labor dangerous for me (such as heart condition, physical disability)	-	-	-
f. I had a complication in my pregnancy (such as pre-eclampsia, placental problems, infection, preterm labor)	24.2	17.3	31.1
g. My health care provider tried to induce my labor, but it didn't work	17.4	10.1	24.7
h. Labor was taking too long	10.5	4.6	16.4
i. The fetal monitor showed that my baby was having problems before or during labor (fetal distress)	19.5	11.6	27.4
j. I wanted to schedule my delivery	-	-	-
k. I didn't want to have my baby vaginally	-	-	-
l. Other	17.9	10.7	25.1

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 before I went into labor	51.6	41.7	61.6
b. My health care provider recommended a cesarean delivery while I was in labor	35.8	26.1	45.4
c. I asked for the cesarean delivery	12.6	5.8	19.4

54. How much weight did you gain during your most recent pregnancy? (Check ONE answer and fill in blank if needed)

Weight gain during pregnancy

	Percent	95% CI	
		Lower	Upper
a. Did not gain weight during pregnancy	-	-	-
b. 1-10 pounds	5.2	2.7	7.6
c. 11-20 pounds	27.1	21.4	32.8
d. 21-30 pounds	29.9	23.8	36.0
e. 31-40 pounds	17.5	12.7	22.4
f. 41 or more pounds	20.2	15.0	25.3

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

Baby in NICU

	Percent	95% CI	
		Lower	Upper
The baby was in NICU after he/she was born	12.5	9.3	15.7

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	
		Lower	Upper
a. Less than 24 hours (<1 day)	-	-	-
b. 24 to 48 hours (1-2 days)	60.9	55.2	66.6
c. 3 to 5 days	25.5	20.2	30.7
d. 6 to 14 days	3.5	1.9	5.1
e. More than 14 days	3.5	2.2	5.0
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	
		Lower	Upper
Baby alive now	98.7	97.6	99.8

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

Baby living with birth mother now	Percent	95% CI	
		Lower	Upper
Baby living with birth mother now	98.1	96.4	99.8

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	
		Lower	Upper
a. My doctor	73.1	67.6	78.5
b. A nurse, midwife, or doula	64.9	59.1	70.7
c. A breastfeeding or lactation specialist	67.7	61.8	73.6
d. My baby’s doctor or health care provider	61.3	55.3	67.4
e. A breastfeeding support group	29.6	23.9	35.3
f. A breastfeeding hotline or toll-free number	10.4	6.6	14.2
g. Family or friends	62.6	56.6	68.5
h. Other	8.8	4.3	13.2

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	77.1	72.0	82.2

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	45.3	38.4	52.3

62. How many weeks or months did you breastfeed or pump milk to feed your baby?

Duration of breastfeeding or pumping milk (excludes those who never or are still breastfeeding)

	Percent	95% CI	
		Lower	Upper
<1 week	16.3	9.9	22.8
1-7 weeks	56.8	47.5	66.0
8-23 weeks	26.9	18.3	35.5

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 baby was born

	Percent	95% CI	
		Lower	Upper
a. Hospital staff gave me information about breastfeeding	92.1	88.2	95.9
b. My baby stayed in the same room with me at the hospital	89.0	85.7	92.4
c. I breastfed my baby in the hospital	82.8	77.7	87.8
d. Hospital staff helped me learn how to breastfeed	83.2	78.1	88.2
e. I breastfed in the first hour after my baby was born	69.5	63.4	75.6
f. My baby was placed in skin-to-skin contact within the first hour of life	82.0	77.2	86.9
g. My baby was fed only breast milk at the hospital	52.6	45.6	59.6
h. Hospital staff told me to breastfeed whenever my baby wanted	79.3	73.8	84.8
i. The hospital gave me a breast pump to use	37.0	30.3	43.7
j. The hospital gave me a gift pack with formula	51.2	44.0	58.3
k. The hospital gave me a telephone number to call for help with breastfeeding	69.1	62.5	75.7
l. Hospital staff gave my baby a pacifier	44.3	37.3	51.3

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	
		<i>Lower</i>	<i>Upper</i>
<1 week	36.7	30.2	43.3
1-7 weeks	26.8	20.5	33.1
8-23 weeks	-	-	-
24 weeks or longer	-	-	-
My baby has not had any liquids other than breast milk	33.5	26.8	40.2

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 suggested not to breastfeed

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who were suggested not to breastfeed	10.9	7.1	14.7

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

Who suggested not to breastfeed

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. My husband or partner	-	-	-
b. My mother, father, or in-laws	28.7	12.3	45.1
c. Other family member or relative	34.9	17.5	52.4
d. My friends	-	-	-
e. My baby’s doctor, nurse, or other health care worker	29.4	12.3	46.5
f. My doctor, nurse, or other health care worker	-	-	-
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.) (Note: If the woman's baby is still in the hospital at the time of the survey, the woman skipped Questions 67-71.)

Baby's sleeping position

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. On his or her side	15.4	10.9	19.9
b. On his or her back	72.7	67.3	78.2
c. On his or her stomach	9.9	6.4	13.5
d. On his or her side/back	-	-	-
e. On his or her side/stomach	-	-	-
f. On his or her back/stomach	-	-	-
g. All 3 positions	-	-	-

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	45.7	39.6	51.8
b. Often	18.5	13.7	23.4
c. Sometimes	16.0	11.6	20.4
d. Rarely	5.9	2.9	8.9
e. Never	13.9	9.8	18.0

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	86.9	82.2	91.7

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 surfaces and environment in the past 2 weeks

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. In a crib, bassinet, or pack and play	86.4	82.2	90.6
b. On a twin or larger mattress or bed	30.5	24.8	36.2
c. On a couch, sofa, or armchair	12.4	8.3	16.5
d. In an infant car seat or swing	42.6	36.5	48.7
e. In a sleeping sack or wearable blanket	34.8	28.9	40.8
f. With a blanket	44.2	38.0	50.3
g. With toys, cushions, or pillows, including nursing pillows	10.3	6.4	14.2
h. With crib bumper pads (mesh or non-mesh)	11.1	7.4	14.9

71. Did a doctor, nurse, or other health care worker tell you any of the following things? (Check ALL that apply.)

Safe sleep discussion with health care provider

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Place my baby on his or her back to sleep	89.4	85.4	93.3
b. Place my baby to sleep in a crib, bassinet, or pack and play	86.7	82.5	91.0
c. Place my baby's crib or bed in my room	65.5	59.6	71.4
d. What things should and should not go in bed with my baby	86.2	82.0	90.3

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	77.1	72.0	82.1

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	
		Lower	Upper
a. I want to get pregnant	20.0	10.1	29.9
b. I am pregnant now	-	-	-
c. I had my tubes tied or blocked	-	-	-
d. I don't want to use birth control	30.9	19.6	42.2
e. I am worried about side effects from birth control	25.2	15.0	35.4
f. I am not having sex	25.9	14.6	37.2
g. My husband or partner doesn't want to use anything	-	-	-
h. I have problems paying for birth control	-	-	-
g. Other	28.7	16.6	40.7

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 to Question 75.)

Types of birth control using now

	Percent	95% CI	
		Lower	Upper
a. Tubes tied or blocked (female sterilization or Essure®)	10.6	6.6	14.6
b. Vasectomy (male sterilization)	-	-	-
c. Birth control pills	27.1	21.2	33.0
d. Condoms	29.6	23.3	36.0
e. Shots or injections (Depo-Provera®)	8.4	4.6	12.3
f. Contraceptive patch (OrthoEvra®) or vaginal ring (NuvaRing®)	-	-	-
g. IUD (including Mirena®, ParaGard®, Liletta®, or Skyla®)	8.1	4.5	11.7
h. Contraceptive implant in the arm (Nexplanon® or Implanon®)	8.9	5.0	12.7
i. Natural family planning (including rhythm method)	5.3	2.3	8.3
j. Withdrawal (pulling out)	27.7	21.7	33.8
k. Not having sex (abstinence)	11.0	7.1	15.0
l. Other	-	-	-

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

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

Postpartum check-up	Percent	95% CI	
		Lower	Upper
Women who had a postpartum check-up	89.7	86.2	93.3

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

Things done by a health care provider during a postpartum check-up			
	Percent	95% CI	
		Lower	Upper
a. Tell me to take a vitamin with folic acid	43.0	36.7	49.3
b. Talk to me about healthy eating, exercise, and losing weight gained during pregnancy	49.8	43.4	56.1
c. Talk to me about how long to wait before getting pregnant again	44.7	38.4	51.0
d. Talk to me about birth control methods I can use after giving birth	89.0	85.1	92.8
e. Give or prescribe me a contraceptive method such as the pill, patch, shot (Depo-Provera®), NuvaRing®, or condoms	49.2	42.9	55.6
f. Insert an IUD (Mirena®, ParaGard®, Liletta®, or Skyla®) or a contraceptive implant (Nexplanon® or Implanon®)	20.3	15.2	25.4
g. Ask me if I was smoking cigarettes	46.9	40.6	53.2
h. Ask me if someone was hurting me emotionally or physically	48.9	42.5	55.2
i. Ask me if I was feeling down or depressed	83.0	78.3	87.7
j. Test me for diabetes	17.5	12.8	22.2

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

Feeling down, depressed, or hopeless			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Always	-	-	-
b. Often	6.9	3.8	10.0
c. Sometimes	24.7	19.6	29.8
d. Rarely	32.1	26.5	37.7
e. Never	35.0	29.3	40.8

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

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 woman usually enjoyed			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Always	5.0	2.6	7.4
b. Often	10.4	6.6	14.2
c. Sometimes	24.0	18.9	29.1
d. Rarely	26.1	20.9	31.2
e. Never	34.5	28.8	40.2

The last questions are about the time during the *12 months before* the 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	29.6	24.0	35.1
b. \$16,001 to \$40,000	31.9	26.3	37.5
c. More than \$40,000	38.5	32.7	44.3

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	12.1	8.2	15.9
2	36.6	30.6	42.5
3	23.9	18.7	29.0
4	13.9	9.8	18.1
5	8.3	5.0	11.5
6 or more	5.3	2.7	8.0

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. In 2022, 46 states, the District of Columbia, New York City, Northern Mariana Islands, and Puerto Rico participated in this project. Several other states (e.g., California and Ohio) 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 approximately 81% of all US births. For year 2022 births, the Phase VIII questionnaire was used.

Sampling

This description includes 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. This report 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), mothers who had a multiple gestation with a plurality of 4 or more, adopted infants, and surrogate births. For mothers who had twins or triplets, and, in the event more than one of the infants' birth certificates was drawn from the birth certificate file, one infant was randomly selected to represent that mother's experiences.

For birth year 2022, Mississippi PRAMS sampled 1,659 mothers (464 respondents generalizing to a PRAMS-eligible population of 32,036). The sample was stratified by birth weight: women who

delivered an infant with low birth weight (<2,500 grams) were sampled at a higher rate than women who delivered an infant with birth weights greater than 2,500 grams.

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.

Survey Topics

Survey topics were designed to provide guidance for PRAMS data users on noteworthy questions or topic areas, to inform the state's Title V Block Grant, and to provide information for practice or policymaking. 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.

Survey Weighting and Analysis

PRAMS is a complex, weighted survey. CDC PRAMS weights the survey data. The final analysis weight is 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 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.

Survey 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, grant / cooperative agreement reporting, and assessing a state's need for services.

Survey 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.

Sample and Population, Year 2022 Births

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

Characteristics of 2022 MS PRAMS Respondents

Maternal characteristics	Unweighted counts	Weighted counts	Weighted percent	95% CI Lower	95% CI Upper
Age (years)					
≤19	34	2,884	9.0	5.7	12.6
20-24	101	8,606	26.9	21.5	32.3
25-29	128	10,696	33.4	27.6	39.1
30-34	127	6,142	19.2	19.2	23.22
35 and older	74	3,708	11.6	8.3	14.9
Total	464	32,036	100.0		
Race					
White	252	18,255	57.0	51.2	62.8
Black	181	11,229	35.1	29.6	40.5
Other	31	2,552	8.0	4.7	11.2
Total	464	32,036	100.0		
Education					
Less than high school	39	3,020	9.5	5.0	11.9
High school	140	10,505	32.9	27.2	38.6
Some college	165	10,836	33.9	28.5	39.4
College graduate	118	7,564	23.7	18.8	28.6
Total	462	31,926	100.0		
Marital Status					
Married	231	16,423	51.3	45.4	57.1
Not Married	233	15,613	48.7	42.9	54.6
Total	464	32,036	100.0		
Baby's Birth Weight					
Low Birth Weight (<2500g)	215	3,626	11.3	10.5	12.1
Normal Birth Weight (2500g +)	249	28,410	88.7	87.9	89.5
Total	464	32,036	100.0		