



MISSISSIPPI STATE DEPARTMENT OF HEALTH

2023

**Mississippi PRAMS
Surveillance Report**

Acknowledgments

Success for the 2023 Mississippi Pregnancy Risk Assessment and 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 2023. 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 2023 (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. What is your date of birth?

Date of birth was used to calculate the woman's age on the date of the birth of her new baby. Women of similar ages were grouped together to form categories commonly used in reproductive health studies.

Women's Age Group (years)	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
19 and younger	10.2	7.3	13.1
20-24	27.6	23.4	31.7
25-29	26.7	22.7	30.7
30-34	22.6	18.8	26.4
35 or older	13.0	10.0	16.0

2. Before you got pregnant, did you....?

Difficulties in hearing, seeing, mobility, memory, and activities of daily living experienced before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Have serious difficulty hearing, or are you deaf?	2.6	1.1	4.1
b. Have serious difficulty seeing, even when wearing glasses, or are you blind?	8.2	5.7	10.8
c. Have serious difficulty walking or climbing stairs?	4.0	2.2	5.8
d. Have serious difficulty concentrating, remembering, or making decisions because of a physical, mental, or emotional condition?	10.7	7.8	13.6
e. Have difficulty with dressing or bathing yourself?	3.1	1.5	4.7
f. Have difficulty doing errands alone such as visiting a doctor's office or shopping because of a physical, mental, or emotional condition?	5.0	2.9	7.1

3. 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 5.)

Previous Live Birth	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a previous live birth	58.1	53.6	62.6

4. What is the age difference between your new baby and the child you delivered *just* before your new one?

Age difference between previous child and new baby	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
0-12 months	6.7	3.6	9.8
13-18 months	5.8	3.0	8.7
19-24 months	9.6	6.1	13.2
25-35 months	20.7	15.7	25.7
36-59 months	31.2	25.6	36.9
>=60 months	25.9	20.6	31.2

5. 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 3 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Type 1 or Type 2 diabetes (not gestational diabetes or diabetes that starts during pregnancy)	2.9	1.4	4.3
b. High blood pressure or hypertension	11.8	8.9	14.7
c. Depression	23.5	19.6	27.4
d. Anxiety	35.7	31.3	40.1
e. Asthma	11.5	8.5	14.5
f. Anemia (poor blood, low iron)	20.7	17.0	24.4
g. Epilepsy (seizures)	2.5	1.1	3.9
h. Thyroid problems	5.2	3.2	7.3
i. PCOS (polycystic ovarian syndrome)	6.6	4.3	8.8
j. Sickle cell trait or disease (SCT or SCD)	4.6	2.8	6.4

6. In the 12 months before you got pregnant with your new baby, did you have any of the following healthcare visits? (Note: Women who had a healthcare visit during the 12 months before pregnancy were asked to complete this question and skip to Question 8.)

Types of healthcare visits during the 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Regular check-up with a family doctor	51.2	46.6	55.8
b. Regular check-up with an OB/GYN	63.2	58.7	67.7
c. Visit for an injury, illness, or chronic condition	21.4	17.6	25.1
d. Visit to urgent care or the emergency room	34.9	30.5	39.3
e. Visit for family planning or to get birth control	20.6	16.9	24.3
f. Visit for depression or anxiety	17.4	13.9	20.8
g. Visit to have my teeth cleaned	46.2	41.6	50.8
h. Other	5.3	3.1	7.5

7. Why didn't you have any healthcare visits in the 12 months before you got pregnant with your new baby? (Check ALL that apply.) (Note: Women who had a healthcare visit during the 12 months before pregnancy were asked to skip this question.)

Reasons for not having a healthcare visit in the 12 months before pregnancy			
	Percent	95% CI	
		Lower	Upper
a. I didn't know I needed one	25.2	12.1	38.3
b. I didn't have enough money or insurance to pay for the visit	40.8	25.4	56.2
c. I felt fine and didn't think I needed to have a visit	52.9	37.3	68.4
d. I couldn't get an appointment when I wanted one	-	-	-
e. I didn't have any transportation to get to the clinic or doctor's office	-	-	-
f. I had too many other things going on	-	-	-
g. I couldn't take time off from work or school	-	-	-
h. I didn't have anyone to take care of my children	-	-	-
i. The doctor's office was too far away	-	-	-
j. Other	-	-	-

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

8. During any of your healthcare visits in the 12 months before you got pregnant, did a healthcare provider do any of the following things? (Note: Women who did not have a healthcare visit during the 12 months before pregnancy were asked to skip this question.)

Topics talked/asked about during healthcare visits in the 12 months before pregnancy			
	Percent	95% CI	
		Lower	Upper
Talk to me about...			
a. My weight	50.1	45.2	55.0
b. Regularly checking my blood pressure	53.5	48.6	58.4
c. My desire to have or not have children	30.8	26.3	35.2
d. Birth control methods	45.9	41.0	50.7
e. How I could improve my health before a pregnancy	26.4	22.1	30.7
f. Sexually transmitted infections such as chlamydia, gonorrhea, syphilis, or HIV	26.4	22.2	30.7
Ask me...			
g. If I smoked cigarettes or used e-cigarettes (“vapes”) or other smokeless tobacco	66.6	62.0	71.2
h. If someone was hurting me emotionally or physically	37.0	32.3	41.7
i. If I felt depressed or anxious	47.9	43.0	52.7

9. 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	
		Lower	Upper
a. Private health insurance (paid for by me, someone else, or through a job)	41.6	37.1	46.1
b. Medicaid	30.6	26.3	34.9
c. Medicaid CCOs (e.g., United, Molina, Magnolia)	16.2	12.8	19.7
d. SCHIP/CHIP	-	-	-
e. TRICARE or other military healthcare	2.4	1.0	3.8
f. Indian Health Service	-	-	-
g. Other health insurance	4.7	2.8	6.7
h. I didn’t have any health insurance during the <i>month before</i> I got pregnant	16.9	13.4	20.4

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

10. During your most recent pregnancy, what kind of health insurance did you have? (Check ALL that apply.)

Health insurance coverage during pregnancy

	Percent	95% CI	
		Lower	Upper
a. Private health insurance (paid for by me, someone else, or through a job)	38.1	33.6	42.5
b. Medicaid	46.7	42.2	51.3
c. Medicaid CCOs (e.g., United, Molina, Magnolia)	26.1	22.1	30.2
d. SCHIP/CHIP	-	-	-
e. TRICARE or other military healthcare	-	-	-
f. Indian Health Service	-	-	-
g. Other health insurance	3.0	1.5	4.6
h. I didn't have any health insurance <i>during my pregnancy</i>	4.6	2.6	6.7

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

11. 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 (paid for by me, someone else, or through a job)	37.2	32.8	41.6
b. Medicaid	40.5	36.0	45.1
c. Medicaid CCOs (e.g., United, Molina, Magnolia)	24.1	20.2	28.0
d. SCHIP/CHIP	-	-	-
e. TRICARE or other military healthcare	2.4	1.0	3.7
f. Indian Health Service	-	-	-
g. Other health insurance	2.8	1.3	4.3
h. I don't have any health insurance <i>now</i>	9.8	7.0	12.7

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

12. Thinking back to *just before* you got pregnant with your new baby, how did you feel about becoming pregnant? (Check ONE answer.)

Women's feelings about becoming pregnant

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
I wanted to be pregnant later	25.3	21.3	29.4
I wanted to be pregnant sooner	9.9	7.3	12.6
I wanted to be pregnant then	32.2	27.9	36.5
I didn't want to be pregnant then or at any time in the future	11.3	8.4	14.2
I wasn't sure what I wanted	21.2	17.4	25.0

During Pregnancy

The following questions are related to the prenatal care received by women during their most recent pregnancy. Prenatal care includes regular visits to a doctor, nurse, or other healthcare provider to obtain guidance, education, and support. Visits are critical for monitoring the well-being of both the woman and developing baby and identifying potential complications in pregnancy.

13. Did you get prenatal care during your *most recent* pregnancy? (Note: Women who said “No” skipped to Question 16.)

Prenatal care	Percent	95% CI	
		Lower	Upper
Women who received prenatal care	95.5	93.6	97.5

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

Trimester of first prenatal care visit	Percent	95% CI	
		Lower	Upper
First trimester	90.7	88.0	93.5
Second trimester	7.8	5.3	10.4
Third trimester	-	-	-

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

15. Did you get prenatal care as early in your pregnancy as you wanted? (Note: Women who said “Yes” skipped to Question 17.)

Received prenatal care as early as wanted	Percent	95% CI	
		Lower	Upper
Yes	84.8	81.4	88.2
No	15.2	11.8	18.6

16. Did any of these things keep you from getting prenatal care when you wanted it? (Note: Women who did not get prenatal care as early as wanted skipped to Question 18.)

Reasons for not getting prenatal care when wanted

	Percent	95% CI	
		Lower	Upper
a. I couldn't get an appointment when I wanted one	37.5	27.0	47.9
b. I didn't have enough money or insurance to pay for my visits	23.0	13.8	32.2
c. I didn't have any transportation to get to the clinic or doctor's office	20.0	11.1	28.9
d. The doctor or my health plan wouldn't start care as early as I wanted	23.9	14.6	33.2
e. I had too many other things going on	22.4	13.1	31.8
f. I couldn't take time off from work or school	-	-	-
g. I didn't have my Medicaid card	15.6	7.5	23.7
h. I didn't have anyone to take care of my children	-	-	-
i. I didn't know that I was pregnant	30.7	20.7	40.6
j. I didn't want anyone else to know I was pregnant	16.4	8.1	24.7
k. I didn't want prenatal care	-	-	-
l. The doctor's office was too far away	-	-	-

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

17. During any of your prenatal care visits, did a healthcare provider do any of the following things?

Topics talked/asked about during prenatal care visits during pregnancy			
	Percent	95% CI	
		Lower	Upper
Talk to me about...			
a. How much weight I should gain during pregnancy	68.5	64.1	72.9
b. Doing tests to screen for birth defects or diseases that run in my family	88.3	85.2	91.4
c. The signs and symptoms of preterm labor (labor more than 3 weeks before the baby is due)	77.7	73.7	81.6
d. What to do if I feel depressed or anxious during my pregnancy or after my baby is born	75.4	71.4	79.5
Ask me...			
e. If I planned to breastfeed my new baby	89.3	86.4	92.3
f. If I planned to use birth control after my baby was born	85.4	82.2	88.7
g. If I was taking any prescription medication	93.8	91.6	96.1
h. If I smoked cigarettes or used e-cigarettes (“vapes”) or other smokeless tobacco	89.4	86.5	92.3
i. If I was drinking alcohol	87.4	84.2	90.5
j. If someone was hurting me emotionally or physically	62.1	57.5	66.7
k. If I was using illegal drugs	73.3	69.1	77.5
l. If I was using marijuana	70.7	66.4	75.0
m. If I wanted to be tested for HIV	51.6	46.9	56.4

18. During the 12 months before your new baby was born, did a healthcare provider offer you the following shots or vaccinations?

Shots offered 12 months before pregnancy

	Percent	95% CI	
		Lower	Upper
Flu shot			
Yes	63.9	59.5	68.4
No	36.1	31.6	40.5
Tdap shot (protects against tetanus, diphtheria, and pertussis [whooping cough])			
Yes	58.9	54.3	63.5
No	41.1	36.5	45.7
COVID-19 shot			
Yes	48.4	43.8	53.0
No	51.6	47.0	56.2

19. Did you get the following shots or vaccinations before or during your pregnancy? (Check ALL that apply for each shot.)

Shots received before or during pregnancy

	Percent	95% CI	
		Lower	Upper
Flu shot			
3 months before	12.8	9.7	15.8
During	20.7	16.9	24.4
Tdap shot			
3 months before	6.5	4.2	8.8
During	41.6	37.0	46.1
COVID-19 shot			
3 months before	21.8	18.0	25.6
During	3.8	2.1	5.6

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

Had teeth cleaned during pregnancy	Percent	95% CI	
		Lower	Upper
Yes	29.4	25.2	33.5
No	70.6	66.5	74.8

21. During your most recent pregnancy, did a healthcare provider tell you that you had any of the following health conditions?

Women's health conditions during this pregnancy	Percent	95% CI	
		Lower	Upper
a. Gestational diabetes (diabetes that started during <i>this</i> pregnancy)	10.3	7.6	13.1
b. High blood pressure (that started during <i>this</i> pregnancy), pre-eclampsia, or eclampsia	21.4	17.8	25.1
c. Depression	12.6	9.6	15.6
d. Anxiety	15.2	11.9	18.5
e. Asthma	7.1	4.7	9.5
f. Anemia (poor blood, low iron)	29.3	25.1	33.5
g. Epilepsy (seizures)	-	-	-
h. Thyroid problems	4.7	2.8	6.6
i. PCOS (polycystic ovarian syndrome)	4.0	2.2	5.7
j. Sickle cell trait or disease (SCT or SCD)	3.6	2.0	5.1

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

22. During your most recent pregnancy, did a healthcare provider do any of the following things to help you manage your high blood pressure? (Note: Women who did not have high blood pressure before or during this pregnancy skipped to Question 23.)

Healthcare providers' actions to help the women manage high blood pressure during and after pregnancy

	Percent	95% CI	
		Lower	Upper
a. Refer me to a different healthcare provider	26.1	18.5	33.7
b. Tell me to regularly check my blood pressure during pregnancy	72.6	64.5	80.6
c. Talk to me about getting to a healthy weight after pregnancy	34.0	25.7	42.3
d. Talk to me about regularly checking my blood pressure after pregnancy	64.0	55.4	72.5
e. Talk to me about the risk for having high blood pressure (chronic hypertension) and heart disease after pregnancy	57.4	48.6	66.1

23. During your most recent pregnancy, did you get information about “warning signs” you should watch for during and after your pregnancy that require immediate medical attention? Some of these “warning signs” include fever, frequent or severe headaches, dizziness, or severe stomach pain. (Note: Women who said “No” skipped to Question 25.)

Was informed about “warning signs” during pregnancy

	Percent	95% CI	
		Lower	Upper
Yes	75.1	71.1	79.2
No	24.9	20.8	28.9

24. During your most recent pregnancy, did you get information about warning signs from any of the following sources?

Sources of “warning signs” during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. A healthcare provider (such as a doctor, nurse, or midwife)	95.9	93.8	97.9
b. Websites or social media (such as Facebook, Instagram, or Twitter)	52.9	47.6	58.3
c. Any source of information that used the slogan “ Hear Her ” (such as websites, social media, or paper handouts)	17.9	13.7	22.0
d. Family or friends	70.4	65.5	75.3

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

Women’s health problems during this pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Vaginal bleeding	19.7	16.0	23.3
b. Kidney or bladder (urinary tract) infection (UTI)	21.2	17.4	25.0
c. Severe nausea, vomiting, or dehydration that sent me to the doctor or hospital	22.6	18.7	26.4
d. Cervix had to be sewn shut (cerclage for incompetent cervix)	2.7	1.3	4.1
e. Problems with the placenta (such as abruptio placentae or placenta previa)	5.5	3.5	7.5
f. Labor pains more than 3 weeks before my baby was due (preterm or early labor)	16.4	13.2	19.7
g. Water broke more than 3 weeks before my baby was due (preterm premature rupture of membranes [PPROM])	4.6	3.1	6.2
h. I had to have a blood transfusion	3.2	1.7	4.8
i. I was hurt in a car accident	3.0	1.4	4.6

The following questions are about cigarettes, e-cigarettes, and other tobacco product use.

26. Have you smoked any cigarettes in the past 2 years? (Note: Women who said “No” skipped to Question 30.)

Smoking during the 2 years before pregnancy	Percent	95% CI	
		Lower	Upper
Women who smoked cigarettes in the past 2 years	18.4	14.8	22.0

27. In the 3 months before you got pregnant, how many cigarettes did you smoke on an average day?

Smoking during the 3 months before pregnancy	Percent	95% CI	
		Lower	Upper
Women who smoked 3 months before pregnancy	13.2	10.1	16.3

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

	Percent	95% CI	
		Lower	Upper
a. More than one pack (21+ cigarettes)	-	-	-
b. One-half to one pack (11-20 cigarettes)	22.9	13.7	32.2
c. Less than half a pack (1-10 cigarettes)	40.9	30.1	51.7

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

28. In the last 3 months of your pregnancy, how many cigarettes did you smoke on an average day?

Smoking during the last 3 months of pregnancy	Percent	95% CI	
		Lower	Upper
Women who smoked in the last 3 months of pregnancy	6.2	4.0	8.5

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

	Percent	95% CI	
		Lower	Upper
a. More than one pack (21+ cigarettes)	-	-	-
b. One-half to one pack (11-20 cigarettes)	-	-	-
c. Less than half a pack (1-10 cigarettes)	21.8	12.8	30.8

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

29. How many cigarettes do you smoke on an average day now?

Smoking after pregnancy

	Percent	95% CI	
		Lower	Upper
Women who smoke now	7.3	4.9	9.7

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

	Percent	95% CI	
		Lower	Upper
a. More than one pack (21+ cigarettes)	-	-	-
b. One-half to one pack (11-20 cigarettes)	23.0	13.6	32.4
c. Less than half a pack (1-10 cigarettes)	15.2	7.6	22.7

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

30. In the past 2 years, have you used e-cigarettes (“vapes”) or other electronic nicotine products? (Note: Women who said “No” skipped to Question 34.)

E-cigarette use during the 2 years before pregnancy

	Percent	95% CI	
		Lower	Upper
Women who used e-cigarettes in the past 2 years	23.4	19.4	27.4

31. During the 3 months *before* you got pregnant, on average, how often did you use e-cigarettes (“vapes”) or other electronic nicotine products?

E-cigarette use during the 3 months before pregnancy	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who used e-cigarettes 3 months before pregnancy	19.7	15.9	23.5

Frequency of use during the 3 months before pregnancy among women who used e-cigarettes in the past 2 years

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Everyday	60.3	50.7	69.8
Some days	23.5	15.4	31.7

32. During the *last 3 months* of your pregnancy, on average, how often did you use e-cigarettes (“vapes”) or other electronic nicotine products?

E-cigarette use during the last 3 months of pregnancy	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who used e-cigarettes during the last 3 months of pregnancy	9.9	7.0	12.8

Frequency of use during the last 3 months of pregnancy among women who used e-cigarettes in the past 2 years

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Everyday	22.6	14.2	31.1
Some days	19.5	11.7	27.3

33. In the *past 2 years*, did you ever use e-cigarettes (“vapes”) or other electronic nicotine products as a way of cutting down or stopping cigarette smoking?

Use e-cigarettes to reduce or stop smoking cigarettes			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Yes	46.3	36.6	56.1
No	53.7	43.9	63.4

The following questions are about alcohol consumption during pregnancy. A drink can be 1 glass of wine, can or bottle of beer or hard seltzer, shot of liquor, or a mixed drink.

34. During your most recent pregnancy, did you have any alcoholic drinks during...? (Note: Women who did not have any alcoholic drinks during pregnancy, skipped to Question 36.)

Alcohol consumption during pregnancy			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who consumed alcohol during pregnancy	21.7	17.9	25.5

Alcohol consumption by trimester among women who consumed alcohol during pregnancy			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. The first 3 months of pregnancy (1 st trimester)? <i>This includes the time before knowing you were pregnant</i>	20.6	16.9	24.3
b. The second 3 months of pregnancy (2 nd trimester)?	-	-	-
c. The last 3 months of pregnancy (3 rd trimester)?	-	-	-

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

35. During your most recent pregnancy, did you have 4 or more alcoholic drinks in a 2-hour time span during...?

Consumed 4 or more alcoholic drinks within 2 hours among women who consumed alcohol during pregnancy

	Percent	95% CI	
		Lower	Upper
Women who consumed 4+ alcoholic drinks within 2 hours during pregnancy	36.2	26.4	46.0

Alcohol consumption by trimester among women who consumed 4 or more alcoholic drinks within 2 hours during pregnancy

	Percent	95% CI	
		Lower	Upper
a. The first 3 months of pregnancy (1 st trimester)? <i>This includes the time before knowing you were pregnant</i>	36.0	26.2	45.8
b. The second 3 months of pregnancy (2 nd trimester)?	-	-	-
c. The last 3 months of pregnancy (3 rd trimester)?	-	-	-

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

Pregnancy can be a difficult time. The following questions are about things that may have happened *before* and *during* the woman’s most recent pregnancy.

36. Did any of the following things happen during the 12 months before your new baby was born?

Stressful events 12 months before this birth	Percent	95% CI	
		Lower	Upper
a. I got separated or divorced	4.7	2.8	6.6
b. I was evicted or forced to move	6.7	4.4	9.1
c. I didn’t have a regular place to sleep	5.4	3.3	7.6
d. I was homeless or had to sleep outside, in a car, or in a shelter	2.5	1.0	4.0
e. My spouse, partner, or I lost a job	11.4	8.5	14.3
f. My spouse, partner, or I had a cut in work hours or pay	12.8	9.7	15.9
g. I had problems paying the rent, mortgage, or other bills	18.4	14.9	22.0
h. My spouse or partner went to jail/prison	-	-	-
i. I went to jail/prison	-	-	-
j. Someone close to me had a problem with drinking or drugs	7.9	5.4	10.3
k. Someone close to me was very sick or died	17.3	13.9	20.7

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

37. 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 spouse or partner	-	-	-
b. My ex-spouse or ex-partner	3.6	1.9	5.3

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

38. *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 spouse or partner	-	-	-
b. My ex-spouse or ex-partner	-	-	-

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 check-up and infant health, breastfeeding, sleep position and environment, and well-baby check-ups.

39. How was your new baby delivered? (Note: Women who said “Vaginally” skipped to Question 42.)

Delivery Method	Percent	95% CI	
		Lower	Upper
Vaginally	60.4	55.9	65.0
Cesarean delivery (C-section)	39.6	35.0	44.1

40. What was the reason that your new baby was born by cesarean delivery (C-section)? (Check ALL that apply.)

Reasons for having a C-section	Percent	95% CI	
		Lower	Upper
a. I had a previous cesarean delivery (C-section)	32.0	25.3	38.7
b. My baby was in the wrong position (such as breech)	16.1	10.9	21.3
c. I was past my due date	-	-	-
d. My healthcare provider worried that my baby was too big	13.8	8.6	19.0
e. I had a medical condition that made labor too dangerous for me (such as a heart condition or physical disability)	8.6	4.6	12.5
f. I had a complication in my pregnancy (such as pre-eclampsia, placental problems, infection, pre-term labor)	24.2	18.6	29.8
g. My healthcare provider tried to induce my labor, but it didn’t work	20.8	14.7	26.8
h. Labor was taking too long	15.2	9.8	20.7
i. The fetal monitor showed that my baby was having problems before or during labor (fetal distress)	17.4	11.9	22.9
j. I wanted to schedule my delivery	-	-	-
k. I didn’t want to have my baby vaginally	-	-	-
l. Other	13.8	9.1	18.6

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

41. Which statement best describes whose idea it was for you to have a cesarean delivery (C-section)? (Check ONE answer.)

Whose idea to have a C-section	Percent	95% CI	
		Lower	Upper
a. My healthcare provider recommended a cesarean delivery <i>before</i> I went into labor	45.5	38.2	52.7
b. My healthcare provider recommended a cesarean delivery while I was in labor	42.3	35.0	49.6
c. I asked for the cesarean delivery	12.3	7.4	17.1

42. After the delivery, how long did your new baby stay in the hospital? (Note: Women who said “My baby is still in the hospital” skipped to Question 45.)

Length of baby’s hospital stay after delivery	Percent	95% CI	
		Lower	Upper
Less than 3 days	61.9	57.4	66.3
3-5 days	27.8	23.6	32.0
6-14 days	5.9	3.9	7.9
More than 14 days	2.7	2.0	3.4
Baby was not born in a hospital	-	-	-
Baby is still in the hospital	-	-	-

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

43. Is your baby alive now? (Note: Women who said “No” skipped to Question 54.)

Baby still living	Percent	95% CI	
		Lower	Upper
Baby alive now	98.8	98.0	99.7

44. Is your baby living with you now? (Note: Women who said “No” skipped to Question 54.)

Baby living with birth mother now	Percent	95% CI	
		Lower	Upper
Baby is living with birth mother now	98.9	97.9	99.9

45. How many weeks or months did you breastfeed or feed pumped milk to your new baby?

(Check ONE answer.)

Mother breastfed / fed breastmilk to baby at any time after birth

	Percent	95% CI	
		Lower	Upper
Breastfed / fed breastmilk to baby	70.3	65.9	74.7

Length of time (weeks) mother breastfed / fed breastmilk to baby among women who breastfed or pumped milk at any time after birth

	Percent	95% CI	
		Lower	Upper
a. Less than 1 week	5.8	3.5	8.0
b. 1-7 weeks	17.2	13.7	20.7
c. 8-23 weeks	12.8	9.7	15.8
d. 24 or more weeks	-	-	-
e. Still breastfeeding / feeding breastmilk at time of survey	34.0	29.5	38.5

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

46. During your hospital stay after your new baby was born, did any of the following things happen? (Note: Women who did not deliver their baby in a hospital, skipped to Question 47.)

Things that happened about breastfeeding during hospital stay

	Percent	95% CI	
		Lower	Upper
a. Hospital staff talked to me about how to breastfeed (how often and long to breastfeed)	80.5	76.6	84.3
b. My baby stayed in the same room with me at the hospital	90.1	87.8	92.4
c. Hospital staff helped me learn how to breastfeed	64.2	59.6	68.8
d. I breastfed as soon as possible after my baby was born	65.8	61.3	70.4
e. My baby was placed in skin-to-skin contact as soon as possible after birth	83.5	80.1	86.8
f. My baby was fed only breast milk at the hospital	38.0	33.4	42.7
g. Hospital staff helped me recognize when my baby was hungry	60.1	55.4	64.8
h. The hospital staff gave me a gift pack with formula	65.7	61.2	70.3
i. The hospital gave me information about who I could contact for breastfeeding support when I left the hospital	75.5	71.3	79.7

47. In the past 2 weeks, how did you place your new baby to sleep at night and during naps?

(Note: Women who said that their baby was still in the hospital skipped to Question 54.)

Baby's sleep position in the past 2 weeks

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. On their side	31.1	26.5	35.7
b. On their back	93.8	91.5	96.1
c. On their stomach	18.7	14.9	22.6

48. In the *past 2 weeks*, when you were sleeping, how often has your new baby slept alone in their own crib or bed? (Note: Women who said "Never" skipped to Question 50.)

How often did baby sleep alone in their crib or bed in the past 2 weeks

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Always	46.2	41.5	51.0
b. Often	22.2	18.2	26.2
c. Sometimes	17.1	13.4	20.7
d. Rarely	5.3	3.2	7.4
e. Never	9.2	6.4	12.0

49. In the *past 2 weeks*, was your baby's crib or bed in the same room where you or another adult slept?

Baby's crib or bed was in the same room as mother or another adult in the past 2 weeks

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Yes	89.6	86.6	92.7
No	10.4	7.3	13.4

50. In the past 2 weeks, where have you placed your new baby to sleep at night or during naps?

Where has baby slept in the past 2 weeks

	Percent	95% CI	
		Lower	Upper
a. In a crib, portable crib, or bassinet	90.8	88.0	93.7
b. On a twin or larger mattress or bed	39.0	34.3	43.8
c. On a couch, sofa, or armchair	15.4	12.0	18.9
d. In an infant car seat	21.2	17.3	25.2
e. In a swing, rocker, or other inclined sleeper	48.9	44.1	53.7
f. In an in-bed sleeper	9.7	6.9	12.5
g. In a baby board or cradleboard	-	-	-
h. Other	3.4	1.5	5.3

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

51. In the past 2 weeks, has your new baby been placed to sleep with the following?

How has baby been placed in sleep environment in the past 2 weeks

	Percent	95% CI	
		Lower	Upper
a. In a sleeping sack or wearable blanket	36.4	31.8	41.0
b. In a swaddled blanket	37.7	33.1	42.3
c. Comforters, quilts, blankets, or non-fitted sheets	25.4	21.2	29.6
d. Soft toys, cushions, or pillows, including nursing pillows	15.7	12.2	19.3
e. Crib bumper pads (mesh or non-mesh)	8.7	6.0	11.5
f. Other	3.5	1.5	5.5

52. Has your new baby had a well-baby check-up? A well-baby check-up is a regular health visit for your baby usually starting at 3 to 5 days after birth and occurring at specific intervals (e.g., 1, 2, 4, and 6 months of age). The visits are essential for monitoring any health problems and ensuring the baby’s development. (*Note: Women who said “Yes” skipped to Question 54.*)

Had a well-baby check-up

	Percent	95% CI	
		Lower	Upper
Baby has had a well-baby check-up	97.8	96.4	99.3

53. Did any of these things keep your baby from having a well-baby check-up? (Check ALL that apply.)

Barriers to receiving well-baby check-up among women who said their baby had not had a well-baby check-up

	Percent	95% CI	
		Lower	Upper
a. I didn't have enough money or insurance to pay for it	-	-	-
b. I had no way to get my baby to the clinic or doctor's office	-	-	-
c. I didn't have anyone to take care of my other children	-	-	-
d. I couldn't get an appointment	-	-	-
e. My baby was too sick to go for a well-baby check-up	-	-	-
f. Other	56.5	21.2	91.8

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

54. Are you or your spouse or partner doing anything now to keep from getting pregnant? This can include having your tubes tied, using birth control pills, condoms, natural family planning, or other methods. (*Note: Women who said "Yes" skipped to Question 56. Women who said "I'm pregnant now" skipped to Question 57.*)

Birth control usage

	Percent	95% CI	
		Lower	Upper
Women and spouses or partners are using a form of birth control to prevent another pregnancy	78.9	75.1	82.8

55. What are your reasons for not doing anything to keep from getting pregnant now? (Check ALL that apply.) (*Women who were not doing anything to keep from getting pregnant now skipped to Question 57.*)

Reasons for not doing anything to prevent pregnancy among women and spouses or partners that are not using a form of birth control

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I want to get pregnant or don't mind if I do	33.4	23.7	43.2
b. I had my tubes tied or blocked	-	-	-
c. My spouse or partner had a vasectomy	-	-	-
d. I don't want to use birth control	33.0	23.2	42.7
e. I'm worried about the side effects from birth control	32.8	22.9	42.7
f. My spouse or partner doesn't want to use condoms	12.0	5.0	19.0
g. My spouse or partner doesn't want me to use birth control	-	-	-
h. We are same-sex spouses/partners	-	-	-
i. I have problems getting birth control I want	-	-	-
j. I don't think I can get pregnant because I'm breastfeeding	-	-	-
k. I'm not having sex	24.6	15.5	33.7
l. Other	10.6	4.4	16.7

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

56. What kind of birth control are you or your spouse or partner using *now* to keep from getting pregnant? (Check ALL that apply.)

Birth control type	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Tubes tied or blocked	11.7	8.3	15.0
b. My spouse or partner had a vasectomy	3.2	1.3	5.0
c. Birth control pills	27.6	22.9	32.3
d. Condoms	24.6	20.0	29.1
e. Shots or injections	10.1	7.0	13.3
f. Contraceptive patch or vaginal ring	4.5	2.3	6.6
g. IUD	9.3	6.3	12.4
h. Contraceptive implant in the arm	7.8	4.9	10.7
i. Withdrawal (pulling out)	18.4	14.3	22.5
j. Natural family planning or fertility awareness methods (such as rhythm or calendar method or fertility apps)	9.0	6.0	12.0
k. Breastfeeding for birth control (Lactational Amenorrhea Method or LAM)	7.2	4.5	10.0
l. Other	5.6	3.2	8.0

57. Since your new baby was born, have you had a postpartum check-up for yourself? A postpartum check-up is a regular health check-up you have up to 12 weeks after giving birth. (Note: Women who said “Yes” skipped to Question 59.)

Had a postpartum check-up	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a postpartum check-up	88.1	85.0	91.2

58. Did any of these things keep you from having a postpartum check-up? (Check ALL that apply.) (After answering this question, women who did not have a postpartum checkup, skipped to Question 60.)

Barriers to having a postpartum check-up among women who reported not having a postpartum check-up

	Percent	95% CI	
		Lower	Upper
a. I didn't know I needed one	20.0	8.7	31.3
b. I didn't have enough money or insurance to pay for the visit	-	-	-
c. I felt fine and didn't think I needed to have a visit	32.7	19.7	45.6
d. I couldn't get an appointment when I wanted one	-	-	-
e. I didn't have any transportation to get to the clinic or doctor's office	-	-	-
f. I had too many other things going on	29.9	17.0	42.7
g. I couldn't take time off from work or school	-	-	-
h. I didn't have anyone to take care of my children	-	-	-
i. The doctor's office was too far away	-	-	-
j. Other	-	-	-

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

59. During your postpartum check-up, did a healthcare provider do any of the following things?

Topics talked/asked about during postpartum check-up	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Talk to me about...			
a. Healthy eating, exercise, and losing weight gained during pregnancy	54.6	49.6	59.6
b. How long to wait before getting pregnant again	51.9	46.9	56.9
c. Birth control methods	88.9	85.8	92.0
d. Warning signs of medical problems I might be at risk for due to my pregnancy	52.2	47.2	57.2
e. Regularly checking my blood pressure	59.6	54.7	64.5
f. What to do if I feel depressed or anxious	76.9	72.7	81.1
Ask me...			
g. If I was smoking cigarettes or using e-cigarettes (“vapes”) or other smokeless tobacco	64.5	59.7	69.3
h. If someone was hurting me emotionally or physically	52.4	47.4	57.4
A healthcare provider...			
i. Tested me for diabetes	27.4	22.9	31.8
j. Prescribed me medication for depression or anxiety	30.2	25.6	34.7

60. Since your new baby was born, have you received follow-up care for any of the following health conditions?

Women’s health conditions after pregnancy	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Diabetes	5.3	3.3	7.3
b. Hypertension (high blood pressure)	19.3	15.7	22.9
c. Depression	22.9	19.0	26.9
d. Anxiety	25.1	21.0	29.2
e. Heart conditions (e.g., birth defects of the heart, fast or skipped heartbeat, heart failure, enlarged heart, heart attack, chest pain, heart transplant, pacemaker)	5.4	3.3	7.5

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

Felt down, depressed, or hopeless	Percent	95% CI	
		Lower	Upper
a. Always	-	-	-
b. Often	9.3	6.6	12.0
c. Sometimes	27.2	23.1	31.4
d. Rarely	31.4	27.0	35.7
e. Never	30.1	25.8	34.5

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

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

Had little interest or little pleasure in doing things	Percent	95% CI	
		Lower	Upper
a. Always	3.3	1.6	4.9
b. Often	9.3	6.5	12.0
c. Sometimes	27.4	23.2	31.5
d. Rarely	26.7	22.5	30.9
e. Never	33.4	28.9	37.8

63. Since your new baby was born, how often have you felt nervous, anxious, or on edge?

Felt nervous, anxious, or on edge	Percent	95% CI	
		Lower	Upper
a. Always	5.0	3.1	6.9
b. Often	21.0	17.1	24.9
c. Sometimes	29.6	25.3	33.8
d. Rarely	17.9	14.3	21.5
e. Never	26.5	22.3	30.7

64. Since your new baby was born, how often have you not been able to stop or control worrying?

Unable to stop or control worrying			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Always	7.5	5.0	10.0
b. Often	14.9	11.6	18.3
c. Sometimes	22.3	18.4	26.2
d. Rarely	24.6	20.6	28.7
e. Never	30.6	26.3	35.0

65. Has a healthcare provider asked you a series of questions, in person or on a form, to know if you were feeling down, depressed, anxious, or irritable during the following time periods?

When a healthcare provider asked questions about feeling down, depressed, anxious, or irritable			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. During my most recent pregnancy	68.8	64.4	73.1
b. Since my new baby was born	73.5	69.3	77.7

66. Overall, since my new baby was born, I have felt...

Feelings on medical autonomy and satisfaction with postpartum care			
	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Comfortable asking questions about the <i>postpartum care</i> I received	88.5	85.5	91.5
b. Comfortable declining care if I didn't want it	87.8	84.7	90.9
c. Comfortable accepting the options for care that my provider recommended	92.5	90.0	94.9
d. I was able to choose the care options that I received	90.9	88.2	93.5
e. My providers treated me with respect	94.1	91.9	96.3
f. Satisfied with the <i>postpartum care</i> that I received	89.4	86.5	92.3

Other Experiences

The following questions are on a variety of topics covering social determinants of health, discrimination, and medical and financial history.

67. During the 12 months before you got pregnant with your new baby, did you have a miscarriage, fetal death (baby died before being born), or stillbirth?

History of miscarriage, fetal death, or stillbirth during the 12 months before pregnancy	Percent	95% CI	
		Lower	Upper
		Women who had a miscarriage, fetal death, or stillbirth 12 months before recent pregnancy	11.4

68. Please tell us how often each of the following happened during the 12 months before your new baby was born.

Experienced food insecurity during 12 months before delivery	Percent	95% CI	
		Lower	Upper
		Women who experience food insecurity	26.5

Food Insecurity Scenarios	Percent	95% CI	
		Lower	Upper
		<i>I worried whether my food would run out before I got money to buy more.</i>	
a. Often	4.6	2.6	6.5
b. Sometimes	18.6	14.9	22.3
c. Never	76.8	72.9	80.8
<i>The food that I bought just didn't last, and I didn't have money to get more.</i>			
a. Often	4.1	2.3	6.0
b. Sometimes	18.4	14.8	22.1
c. Never	77.5	73.5	81.4

69. During the 12 months before your new baby was born, did lack of transportation keep you from any of the following?

Experienced transportation insecurity during the 12 months before delivery	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
		Women who experience transportation insecurity	13.8

Transportation Insecurity Scenarios	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
		a. Going to medical appointments	10.7
b. Going to non-medical appointments, meetings, or work	9.6	6.8	12.4
c. Doing errands	12.3	9.2	15.4

70. While getting healthcare during your pregnancy, at delivery, or at postpartum care, did you experience discrimination or were you prevented from doing something, hassled, or made to feel inferior? (Check ALL that apply.)

Reasons for discrimination	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
		a. My race, ethnicity, or skin color	-
b. My disability status	-	-	-
c. My immigration status	-	-	-
d. My age	3.7	2.0	5.4
e. My weight	-	-	-
f. My income	2.4	1.0	3.8
g. My sex [redacted]	-	-	-
h. My sexual orientation	-	-	-
i. My religion	-	-	-
j. My language or accent	-	-	-
k. My type or lack of health insurance	-	-	-
l. My use of substances (alcohol, tobacco, or other drugs)	-	-	-
m. My involvement with the justice system (jail or prison)	-	-	-
n. Another reason	-	-	-

Note: Responses with relative standard error (RSE) above 30% are suppressed (dashes). To comply with state law, language in item g was redacted.

71. During your life until now, how often have you been discriminated against, prevented from doing something, hassled, or made to feel inferior because of your race, ethnicity, or skin color?

How often a woman has felt discriminated against throughout life

	Percent	95% CI	
		Lower	Upper
a. Very often	-	-	-
b. Somewhat often	5.3	3.2	7.3
c. Not very often	25.8	21.7	29.9
d. Never	67.4	63.0	71.8

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

72. Have you ever been treated unfairly due to your race, ethnicity, or skin color in any of the following situations? (Check ALL that apply.)

Scenarios in which women felt discriminated against

	Percent	95% CI	
		Lower	Upper
a. Job (hiring, promotion, firing)	11.0	8.1	13.8
b. Housing (renting, buying, mortgage)	6.0	3.8	8.2
c. Police (stopped, searched, threatened)	8.1	5.5	10.6
d. In the courts	2.9	1.3	4.5
e. At school or my child's school	7.0	4.6	9.4
f. Getting medical care	4.5	2.7	6.4

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

Annual household income before taxes 12 months before birth

	Percent	95% CI	
		Lower	Upper
\$18,000 or less	33.9	29.3	38.5
\$18,001-\$42,000	30.1	25.7	34.5
\$42,001 or more	36.0	31.4	40.6

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

Number of people within household that depended on income during 12 months before baby's birth

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
1	17.5	13.9	21.2
2	25.4	21.3	29.5
3	28.4	24.1	32.7
4	18.7	15.0	22.4
5	6.1	3.8	8.3
6 or more	4.0	2.1	5.9

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 2023, 46 states, plus the District of Columbia, New York City, the 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 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 2023 births, the Phase IX questionnaire was used. Phase IX survey revisions were substantive. Caution should be taken when comparing responses between Phase VIII and IX survey questions or combining data from Phase VIII and IX surveys for period estimates.

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 2023, Mississippi PRAMS sampled 1,715 mothers (657 respondents generalizing to a PRAMS-eligible population of 31,699). The weighted response rate of the 2023 PRAMS sample was 40.4%. 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.

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. Women also could opt to respond to the survey using an online web-based survey.

Survey Topics

PRAMS 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 for the state. 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 question and/or item. 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 prevalence estimates 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, phone survey, or web-based

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 2023 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 2023 MS PRAMS Respondents					
Maternal Characteristics	Unweighted Counts	Weighted Counts	Weighted percent	95% CI Lower	95% CI Upper
Age (years)					
19 or younger	57	3,222	10.2	7.3	13.1
20-24	174	8,746	27.6	23.4	31.7
25-29	177	8,456	26.7	22.7	30.7
30-34	154	7,158	22.6	18.8	26.4
35 or older	95	4,118	13.0	10.0	16.0
Total	657	31,699	100		
Race					
White	324	17,369	54.8	50.3	59.3
Black	297	12,268	38.7	34.3	43.1
All other	36	2,062	6.5	4.2	8.8
Total	657	31,699	100		
Education					
Less than high school	68	3,843	12.2	9.0	15.3
High school graduate	2158	10,664	33.7	29.3	38.2
Some college	222	10,301	32.6	28.4	36.8
College graduate	151	6,805	21.5	17.9	25.2
Total	656	31,612	100		
Marital Status					
Married	275	14,238	44.9	40.4	49.5
Other	382	17,461	55.1	50.5	59.6
Total	657	31,699	100		
Baby's Birth Weight					
Low birth weight	285	3,514	11.1	10.8	11.3
Normal birth weight	372	28,185	88.9	88.7	89.2
Total	657	31,699	100		