

Errata

Date: June 5, 2023

Issuing Program/Office: Mississippi Pregnancy Risk Assessment Monitoring System (PRAMS)
Office of Vital Records and Public Health Statistics
Mississippi State Department of Health

Name of Document: 2017 PRAMS Surveillance Report Brief

Link to Document: https://msdh.ms.gov/msdhsite/_static/resources/10773.pdf

The following changes were made to the document after publication on the Mississippi State Department of Health (MSDH) website:

1. Measure #5 on page 2 was changed from “Did the baby born *just before* your new one weigh *more* than 5 pounds, 8 ounces (2.5 kilos) at birth?” to “Did the baby born *just before* your new one weigh 5 pounds, 8 ounces (2.5 kilos) or *less* at birth?”
2. The title of the table accompanying Measure #5 on page 2 was changed from “Previous birth weight baby >2.5 kilograms” to “Previous low birthweight baby.”
3. The label on the table accompanying Measure #5 on page 2 was changed from “Women who had a previous birth weight baby >2.5 kilograms” to “Women who had a previous low birthweight baby.”

The corrected information for Measure #5 on page 2 is shown below.

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

Previous low birthweight baby	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a previous low birthweight baby	15.5	11.7	19.3



MISSISSIPPI STATE DEPARTMENT OF HEALTH

2017

PRAMS Surveillance Report Brief

Acknowledgments

Success for the 2017 Mississippi 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.

Thanks go to the Centers for Disease Control and Prevention, the Mississippi PRAMS Staff, Mississippi State Department of Health, Office of Health Data and Research, and Office of Vital Statistics for their contributions to making the project a success.

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Suggested citation

Office of Health Data and Research, Mississippi State Department of Health. Mississippi PRAMS Surveillance Report, Year 2017 Births, Jackson, MS: Mississippi Department of Health, 2020.

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 to inform policymakers and the general public.

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

Responses to questions are given for all women with a recent birth. Methods are explained in the appendix, including guidelines for interpreting the report. The topics on this brief surveillance report are covered in several sections:

1. Alcohol and drug use
2. Infant morbidity
3. Prenatal care visits and content
4. Preconception behaviors
5. Sexually transmitted disease/HIV
6. Birth control
7. Violence
8. Infant feeding and care
9. Pregnancy history
10. Mental health
11. Maternal morbidity
12. Delivery methods
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14. Miscellaneous

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 2017 (not just the respondents). "Percent of women" refers to Mississippi residents with an in-state live birth minus those women who adopt infants and other exclusions. This does not include mothers who are excluded according to CDC protocol guidelines: out of state births to residents, in state births to nonresidents, infants whose birth certificates lack the mother's last name, birth certificates that are processed too late after the birth occurred (more than six months afterwards), multiple gestation infants, adopted infants, and surrogate births. Because of the survey design, we report a margin of error, the 95% confidence interval (CI). Categories of maternal characteristics that have non-overlapping 95% CIs are statistically significantly different from each other. This test of significance can be used to describe findings for each PRAMS item questionnaires. Sample sizes for some subpopulations were too small for precise estimates. Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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Before Pregnancy

1. How tall are you without shoes?

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

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

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

Women's Body Mass Index before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Underweight, BMI <18.5	4.4	2.7	6.2
Normal weight, BMI 18.5 - 24.9	40.1	36.0	44.3
Overweight, BMI 25–29.9	23.2	19.7	26.7
Obese, BMI 30+	32.2	28.2	36.2

3. What is your date of birth?

Women's age group (years)

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
19 and younger	7.8	5.6	10.0
20-24	29.4	25.6	33.2
25-29	31.8	27.9	35.8
30-34	20.6	17.2	24.0
35 and older	10.4	7.7	13.0

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

Note: Women who say "No" on this question, go to question 7

Previous live birth

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had previous live birth	63.7	59.7	67.6

Previous live birth grouped

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
0	35.5	31.6	39.4
1	31.1	27.1	35.0
2	20.4	16.9	23.9
3-5	12.0	9.2	14.9
≥6	1.0	0.1	1.9

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Previous low birthweight baby

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a previous low birthweight baby	15.5	11.7	19.3

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

Previous preterm birth

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had previous preterm birth	15.9	11.9	19.7

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

Women's behaviors 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I was dieting (changing my eating habits) to lose weight	27.1	23.3	30.8
b. I was exercising 3 or more days of the week	34.1	30.1	38.1
c. I was regularly taking prescription medicines other than birth control	22.1	18.7	25.6
d. A health care worker checked me for diabetes	26.0	22.2	29.8
e. I talked to a health care worker about my family medical history	36.8	32.8	40.9

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 condition 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)	3.6	2.0	5.3
b. High blood pressure or hypertension	9.1	6.8	11.4
c. Depression	13.2	10.4	15.9
d. Asthma	7.8	5.5	10.1
e. Anemia (poor blood, low iron)	25.6	21.8	29.3
f. Heart problems	2.1	0.79	3.4
g. Epilepsy (seizures)	2.2	0.96	3.5
h. Thyroid problems.	3.6	2.1	5.1
i. PCOS (polycystic ovarian syndrome)	4.1	2.5	5.7
j. Anxiety	17.1	14.1	20.2
k. Sickle Cell	1.1	0.30	1.9

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Vitamin intake before pregnancy

	Percent	95% CI	
		Lower	Upper
a. I didn't take a multivitamin, prenatal vitamin, or folic acid vitamin at all	58.0	53.8	62.1
b. 1 to 3 times a week	8.2	5.8	10.6
c. 4 to 6 times a week	4.8	3.0	6.6
d. Every day of the week	29.1	25.3	32.9

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 say "No" on this question, go to question 13

Healthcare visits before pregnancy

	Percent	95% CI	
		Lower	Upper
Healthcare visits before pregnancy	59.2	55.0	63.3

11. What type of health care visit did you have in the 12 months before you got pregnant with your new baby?

Types of healthcare visits during 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Regular checkup at my family doctor's office	40.3	34.9	45.6
b. Regular checkup at my OB/GYN's office	68.1	63.0	73.2
c. Visit for an illness or chronic condition	19.1	15.0	23.3
d. Visit for an injury	3.6	1.7	5.4
e. Visit for family planning or birth control	17.4	13.4	21.5
f. Visit for depression or anxiety	10.7	7.4	14.1
g. Visit to have my teeth cleaned by a dentist or Dental hygienist	50.9	45.4	56.3
h. Other	11.5	8.1	14.9

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

Healthcare Discussion with a doctor, nurse, or other health care workers

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Taking a multivitamin with folic acid	29.8	24.8	34.8
b. Maintaining or being a healthy weight	42.7	37.2	48.1
c. Controlling any medical conditions such as diabetes or high blood pressure	19.1	14.8	23.5
d. Talk to me about my desire to have or not have children	37.8	32.5	43.1
e. Talk to me about using birth control to prevent pregnancy	47.5	42.0	53.0
f. Talk to me about how I could improve my health before a pregnancy	32.7	27.5	37.9
g. Talk to me about sexually transmitted infections such as chlamydia, gonorrhea, or syphilis	32.4	27.2	37.7
h. Ask me if I was smoking cigarettes	75.1	70.4	79.8
i. Ask me if someone was hurting me emotionally or physically	33.7	28.4	38.9
j. Ask me if I was feeling down or depressed	41.8	36.3	47.2
K. Ask me about the kind of work I do	56.3	50.9	61.7
l. Test me for HIV (the virus that causes AIDS)	33.9	28.6	39.3

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

Health insurance coverage during the month before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>

a.	Private health insurance from my job or the job of my husband, or partner	36.5	32.5	40.5
b.	Private health insurance from my parents	7.9	5.8	10.0
c.	Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	4.3	2.6	6.0
d.	Medicaid	32.3	28.3	36.3
e.	SCHIP	1.2	0.2	2.2
f.	TRICARE or other military health care	3.8	2.2	5.3
g.	Indian Health Service	0	0	0
h.	Other source(s)	3.4	2.0	4.9
i.	I did not have any health insurance before I got pregnant	22.1	18.6	25.8

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

14. During your *most recent pregnancy*, what kind of health insurance did you have for your *prenatal care*?

Note: Women who say “I did not go for prenatal care” on this question, go to question 15

Health insurance coverage for prenatal care

	Percent	95% CI		
		<i>Lower</i>	<i>Upper</i>	
a.	I did not go for prenatal care	1.9	0.8	3.0
b.	Private health insurance from my job or the job of my husband, or partner	33.5	29.6	37.5
c.	Private health insurance from my parents	4.8	3.1	6.5
d.	Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	2.2	1.0	3.3
d.	Medicaid	67.3	63.4	71.2
e.	SCHIP	0.8	0.03	1.7
f.	TRICARE or other military health care	3.3	1.8	4.7
g.	Indian Health Service	0	0	0
h.	Other source(s)	2.5	1.4	3.7
i.	I did not have any health insurance for my <i>prenatal care</i>	2.3	0.9	3.7

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

15. What kind of health insurance do you have now?

Health insurance coverage after pregnancy

	Percent	95% CI		
		<i>Lower</i>	<i>Upper</i>	
a.	Private health insurance from your job or the job of my husband, or partner	32.0	28.2	35.9
b.	Private health insurance from my parents	5.4	3.6	7.2
c.	Private health insurance from the Mississippi Health Insurance Marketplace or HealthCare.gov	3.2	1.8	4.6
d.	Medicaid	38.1	34.0	42.2

e. SCHIP	0.6	0.0	1.3
f. TRICARE or other military health care	3.8	2.2	5.4
g. Indian Health Service	0	0	0
h. Other source(s)	3.3	1.9	4.7
i. I do not have health insurance now	20.6	17.1	24.1

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Note: Women who say “I wanted to be pregnant later” on this question, go to question 17, otherwise go to question 18

Women’s feelings about becoming pregnant

	Percent	95% CI	
		Lower	Upper
I wanted to be pregnant later	27.3	23.6	31.0
I wanted to be pregnant sooner	8.4	6.1	10.6
I wanted to be pregnant then	35.5	31.5	39.5
I didn’t want to be pregnant then or at any time in the future	9.1	6.5	11.7
I wasn’t sure what I wanted	19.7	16.3	23.2

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

When women want to get pregnant

	Percent	95% CI	
		Lower	Upper
Less than 1 year	8.3	4.1	12.5
1 year to less than 2 years	27.8	20.5	35.1
2 years to less than 3 years	22.4	15.9	29.0
3 years to 5 years	25.0	18.0	32.0
More than 5 years	16.4	10.5	22.4

During Pregnancy

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

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

First visit of prenatal care

	Percent	95% CI	
		Lower	Upper

First trimester prenatal care	87.3	84.5	90.1
Second trimester prenatal care	12.5	9.7	15.3
Third trimester prenatal care	0.2	0.0	0.6

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

Women who started prenatal care on first trimester

	Percent	95% CI	
		Lower	Upper
Yes	82.4	79.1	85.7
No	15.9	12.7	19.0
No prenatal care	1.7	0.5	2.9

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

Number of prenatal care visit

	Percent	95% CI	
		Lower	Upper
≤8	14.0	11.1	16.9
9–11	25.0	21.3	28.7
≥12	61.1	56.9	65.2

19. Where did you go most of the time for your prenatal care visits?

Source of prenatal care

	Percent	95% CI	
		Lower	Upper
a. Health Department Clinic	6.4	4.1	8.7
b. MD/HMO	55.2	50.9	59.5
c. Community Health Center	13.2	10.3	16.1
d. Other	5.4	3.3	7.6

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 discussion with doctor, nurse or health workers during pregnancy

	Percent	95% CI	
		Lower	Upper
a. How smoking during pregnancy could affect my baby.	75.1	71.5	78.7
b. Breastfeeding my baby	88.7	86.1	91.3
c. How drinking alcohol during pregnancy could affect my baby	75.3	71.7	78.9
d. Using a seat belt during my pregnancy .	54.0	49.7	58.3

e.	Medicines that are safe to take during my pregnancy	94.0	92.0	95.9
f.	How using illegal drugs could affect my baby.	69.3	65.5	73.2
g.	Doing tests to screen for birth defects or diseases that run in my family	90.2	87.8	92.6
h.	The signs and symptoms of preterm labor (labor more than 3 weeks before the baby is due)	82.7	79.5	85.8
i.	What to do if I feel depressed during my pregnancy or after my baby is born	73.4	69.7	77.2
j.	Physical abuse to women by their husbands or partners	49.5	45.2	53.8

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 discussion with doctor, nurse or health workers

	Percent	95% CI		
		Lower	Upper	
a.	If I knew how much weight I should gain during pregnancy	55.8	51.6	60.1
b.	If I was taking any prescription medication	92.2	90.0	94.5
c.	If I was smoking cigarettes	92.1	89.8	94.3
d.	If I was drinking alcohol	89.4	86.8	92.0
e.	If someone was hurting me emotionally or physically	53.0	48.8	57.3
f.	If I was feeling down or depressed	64.6	60.5	68.6
g.	If I was using drugs such as marijuana, cocaine, crack, or meth	71.2	67.4	75.0
h.	If I wanted to be tested for HIV (the virus that causes AIDS)	54.7	50.4	58.9
i.	If I planned to breastfeed my new baby	94.2	92.3	96.1
j.	If I planned to use birth control after my baby was born	91.0	88.7	93.2

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

Prenatal Care satisfaction

	Percent	95% CI		
		Lower	Upper	
a.	The amount of time I had to wait	83.6	80.3	86.9
b.	The amount of time the doctor, nurse, or midwife spent with me	91.8	89.5	94.2
c.	The advice I got on how to take care of myself.	92.8	90.5	95.0
d.	The understanding and respect shown toward me as a person	95.2	93.3	97.1

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

Test for HIV

Percent	95% CI
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		<i>Lower</i>	<i>Upper</i>
Women who had HIV test during pregnancy	66.4	62.0	70.8

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 by healthcare provider

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who offered or told flu shot during pregnancy	77.7	74.2	81.3

25. During the 12 months before the delivery of your new baby, did you get a flu shot?

Test for flu shot

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Yes, before my pregnancy	11.3	8.6	14.0
Yes, during my pregnancy	33.3	29.3	37.2

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

Test for Tdap or vaccination

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who got Tdap or vaccination during pregnancy	57.7	53.3	62.1

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

Teeth cleaned by a dentist or dental hygienist

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Teeth cleaned by a dentist or dental hygienist	34.2	30.2	38.2

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

Women's care of teeth during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I knew it was important to care for my teeth and gums during my pregnancy	86.5	83.6	89.4
b. A dental or other health care worker talked with me about how to care for my teeth and gums	47.3	43.1	51.6

c. I had insurance to cover dental care during my pregnancy	73.5	69.8	77.3
d. I needed to see a dentist for a problem	25.5	21.8	29.2
e. I went to a dentist or dental clinic about a problem	17.9	14.6	21.1

29. During your most recent pregnancy, what kind of problem did you have with your teeth or gums?

Teeth/gums problems

	Percent	95% CI	
		Lower	Upper
a. I had cavities that needed to be filled	50.4	42.0	58.7
b. I had painful, red, or swollen gums	35.5	27.6	43.5
c. I had a toothache	65.5	57.7	73.3
d. I needed to have a tooth pulled	52.9	44.6	61.2
e. I had an injury to my mouth, teeth, or gums	8.1	3.3	12.9
f. I had some other problem with my teeth or gums	21.4	14.6	28.3

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Note: Women who say "No" on this question, go to question 32

Women who were on WIC during pregnancy

	Percent	95% CI	
		Lower	Upper
Women on WIC program during pregnancy	59.5	55.3	63.7

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?

Speak with a breastfeeding peer counselor or another WIC staff person about breastfeeding

	Percent	95% CI	
		Lower	Upper
Speak with a breastfeeding peer counselor or another WIC staff person about breastfeeding	82.0	77.6	86.3

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

Health condition during pregnancy

	Percent	95% CI	
		Lower	Upper
a. Gestational diabetes (diabetes that started during this pregnancy)	8.1	5.7	10.5

b. High blood pressure (that started during this pregnancy), pre-eclampsia or eclampsia	14.6	11.7	17.5
c. Depression	14.0	11.1	16.9
e. Sickle Cell	0.35	0.0	0.75

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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 17 P (17 alpha-hydroxyprogesterone) to try to keep your new baby from being born too early?

Preterm prevention

	Percent	95% CI	
		Lower	Upper
Weekly shots of a medicine called progesterone, Makena®, or 17 P	8.3	5.9	10.8

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

Women’s discussion with doctor, nurse or health workers

	Percent	95% CI	
		Lower	Upper
a. Genital warts (HPV)	1.9	0.7	3.0
b. Herpes	2.1	0.9	3.4
c. Chlamydia	4.9	3.0	6.9
d. Gonorrhea	2.0	0.8	3.2
e. Pelvic inflammatory disease (PID)	0.6	0.0	1.2
f. Syphilis	1.0	0.1	1.8
g. Group B Strep (Beta Strep)	11.6	8.8	14.3
h. Bacterial vaginosis	6.2	4.2	8.2
i. Trichomoniasis (Trich)	4.8	3.0	6.6
j. Yeast infections	20.3	16.9	23.8
k. Urinary tract infection (UTI)	24.3	20.6	27.9
l. Other	2.0	0.9	3.1

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

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

Note: Women who say “No” on this question, go to question 39

Smoking 2 years before pregnancy

	Percent	95% CI	
		Lower	Upper
Women smoked any cigarettes in the past 2 years	23.9	20.3	27.4

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	21.6	18.2	25.1

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

	Percent	95% CI	
		Lower	Upper
a. 41 cigarettes or more	2.2	0.04	4.3
b. 21 to 40 cigarettes	5.5	1.2	9.8
c. 11 to 20 cigarettes	22.6	15.3	30.0
d. 6 to 10 cigarettes	34.1	25.9	42.3
e. 1 to 5 cigarettes	23.2	15.9	30.5
f. Less than 1 cigarette	3.0	0.2	5.8
g. I didn't smoke then	9.5	4.7	14.2

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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	
		Lower	Upper
Women who smoked in last 3 months of pregnancy	10.4	7.8	13.1

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

	Percent	95% CI	
		Lower	Upper
a. 41 cigarettes or more	0.1	0.0	0.2
b. 21 to 40 cigarettes	1.6	0.0	4.2
c. 11 to 20 cigarettes	3.6	1.2	6.1
d. 6 to 10 cigarettes	5.9	2.5	9.4
e. 1 to 5 cigarettes	28.0	19.8	36.2
f. Less than 1 cigarette	4.7	0.9	8.5
g. I didn't smoke then	56.1	47.5	64.8

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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	17.7	14.5	20.9

Amount of cigarettes mothers' smoke on an average day now

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. 41 cigarettes or more	0.0	0.0	0.0
b. 21 to 40 cigarettes	1.9	0.0	4.0
c. 11 to 20 cigarettes	12.0	6.6	17.3
d. 6 to 10 cigarettes	27.2	19.4	34.9
e. 1 to 5 cigarettes	26.1	18.4	33.8
f. Less than 1 cigarette	6.9	2.6	11.1
g. I didn't smoke then	26.0	18.5	33.5

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

39. Have you used any of the following products in the past 2 years?

Smoking Products

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. E-cigarettes or other electronic nicotine products	8.4	6.0	10.7
b. Hookah	3.0	1.6	4.3
c. Chew or snus	0.5	0.0	1.1
d. Cigars or cigarillos	4.7	3.0	6.4

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Average e-cigarettes or other electronic nicotine products before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. More than once a day	13.0	3.8	22.3
b. Once a day	11.5	0.7	22.4
c. 2-6 days a week	6.9	0.0	13.9
d. 1 day a week or less	17.4	6.3	28.6
e. I did not use e-cigarettes or other electronic nicotine products then	51.2	36.5	65.8

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Smoking Products

	Percent	95% CI	
		Lower	Upper
a. More than once a day	8.3	1.0	15.6
b. Once a day	0.3	0.0	0.9
c. 2-6 days a week	0.3	0.0	0.7
d. 1 day a week or less	7.7	0.0	16.3
e. I did not use e-cigarettes or other electronic nicotine products then	83.4	72.6	94.2

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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 say "No" on this question, go to question 45

Drinking alcohol 2 years before pregnancy

	Percent	95% CI	
		Lower	Upper
Women who drink alcohol in the past 2 years	56.3	52.1	60.6

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

Amount of drinks women's had in an average week before pregnancy

	Percent	95% CI	
		Lower	Upper
a. 14 drinks or more a week	1.4	0.2	2.6
b. 8 to 13 drinks a week	2.1	0.6	3.6
c. 4 to 7 drinks a week	7.6	4.8	10.5
d. 1 to 3 drinks a week	26.4	21.5	31.3
e. Less than 1 drink a week	42.4	36.9	47.9
f. I didn't drink then	20.0	15.5	24.6

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Amount of alcoholic drinks women's had in an average week during pregnancy

	Percent	95% CI	
		Lower	Upper
a. 14 drinks or more a week	0.0	0.0	0.0
b. 8 to 13 drinks a week	0.0	0.0	0.0
c. 4 to 7 drinks a week	0.7	0.0	1.6

d.	1 to 3 drinks a week	2.6	0.7	4.6
e.	Less than 1 drink a week	3.6	1.6	5.6
f.	I didn't drink then	93.0	90.2	95.9

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

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	25.7	22.0	29.4
b.	I got separated or divorced from my husband or partner	8.0	5.7	10.3
c.	I moved to a new address	31.5	27.6	35.4
d.	I was homeless or had to sleep outside, in a car, or in a shelter	1.5	0.5	2.6
e.	My husband or partner lost his job	11.2	8.5	13.9
f.	I lost my job even though I wanted to go on working	12.5	9.8	15.2
g.	My husband, partner, or I had a cut in work hours or pay	13.5	10.6	16.3
h.	I was apart from my husband or partner due to military deployment or extended work-related travel	6.1	4.0	8.2
i.	I argued with my husband or partner more than usual	21.5	18.0	25.0
j.	My husband or partner said he didn't want me to be pregnant	7.0	4.8	9.2
k.	I had problems paying the rent, mortgage, or other bills	16.0	12.9	19.1
l.	My husband or partner or I went to jail	4.0	2.3	5.6
m.	Someone very close to me had a problem with drinking or drugs	10.1	7.6	12.5
n.	Someone very close to me died	20.8	17.3	24.2

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Domestic violence before pregnancy

		Percent	95% CI	
			Lower	Upper
a.	My husband or partner	2.3	1.1	3.5
b.	My ex-husband or ex-partner	2.2	0.9	3.6
c.	Another family member	0.6	0.0	1.2
d.	Someone else	0.9	0.2	1.6

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Domestic violence during pregnancy

	Percent	95% CI	
		Lower	Upper
a. My husband or partner	2.1	0.9	3.3
b. My ex-husband or ex-partner	1.1	0.2	2.0
c. Another family member	0.2	0.0	0.6
d. Someone else	0.5	0.0	1.1

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Abuse by husband/partner during pregnancy

	Percent	95% CI	
		Lower	Upper
a. My husband or partner threatened me or made me feel unsafe in some way	4.3	2.6	6.1
b. I was frightened for my safety or my family’s safety because of the anger or threats of my husband or partner	3.2	1.7	4.7
c. My husband or partner tried to control my daily activities, for example, controlling who I could talk to or where I could go	4.6	2.9	6.3
d. My husband or partner forced me to take part in touching or any sexual activity when I did not want to	1.6	0.6	2.6

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

After Pregnancy

49. When was your new baby born?

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

C-section Plan

	Percent	95% CI	
		Lower	Upper
C-section Plan	23.8	20.1	27.5

51. How was your new baby delivered?

Note: Women who say “Vaginally” on this question, go to question 54

Delivery Type

	Percent	95% CI	
		Lower	Upper
Vaginally	64.1	60.0	68.1
C-section	35.9	31.9	40.0

52. What was the reason that your new baby was born by cesarean delivery (c-section)?

Reasons for C-section

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I had a previous cesarean delivery (c-section)	49.3	42.4	56.1
b. My baby was in the wrong position (such as breech)	14.8	10.1	19.4
c. I was past my due date	5.0	1.7	8.2
d. My health care provider worried that my baby was too big	8.1	4.4	11.8
e. I had a medical condition that made labor dangerous for me (such as heart condition, physical disability)	7.9	4.1	11.6
f. I had a complication in my pregnancy (such as pre-eclampsia, placental problems, infection, preterm labor)	17.0	12.7	21.3
g. My health care provider tried to induce my labor, but it didn't work	17.8	12.6	22.9
h. Labor was taking too long	12.8	8.1	17.4
i. The fetal monitor showed that my baby was having problems before or during labor (fetal distress)	11.0	7.4	14.5
j. I wanted to schedule my delivery	4.7	1.8	7.5
k. I didn't want to have my baby vaginally	3.8	1.2	6.5
l. Other	16.4	11.2	21.6

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

53. Which statement best describes whose idea it was for you to have a cesarean delivery (c-section)?

Whose idea it was for you to have a cesarean delivery

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. My health care provider recommended a cesarean delivery <i>before</i> I went into labor	61.9	55.1	68.7
b. My health care provider recommended a cesarean delivery while I was in labor	27.8	21.7	33.8
c. I asked for the cesarean delivery	10.4	5.7	15.1

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

Maternal weight gain during pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. No gain/or loss	3.5	1.9	5.1
b. 1-10 pounds	9.4	6.9	11.8
c. 11-20 pounds	21.6	18.1	25.0
d. 21-30 pounds	27.7	23.9	31.5
e. 31-40 pounds	20.2	16.8	23.6

f. 41 or more pounds	17.6	14.5	20.8
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55. After your baby was born, was he or she put in an intensive care unit?

Baby in ICU

	Percent	95% CI	
		Lower	Upper
The baby was in ICU after born	13.8	11.3	16.3

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

Note: Women who say “My baby is still in the hospital” on this question, go to question 59, otherwise go to question 57

Baby’s length of stay in the hospital

	Percent	95% CI	
		Lower	Upper
a. Less than 24 hours (<1 day)	1.6	0.5	2.6
b. 24 to 48 hours (1-2 days)	60.2	56.1	64.3
c. 3 to 5 days	28.4	24.5	32.3
d. 6 to 14 days	5.6	3.7	7.5
e. More than 14 days	3.8	2.8	4.8
f. My baby was not born in a hospital	0.1	0.0	0.1
g. My baby is still in the hospital	0.3	0.2	0.4

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

57. Is your baby alive now?

Note: Women who say “No” on this question, go to question 72

Baby alive

	Percent	95% CI	
		Lower	Upper
Baby alive now	99.4	99.0	99.8

58. Is your baby living with you now?

Note: Women who say “No” on this question, go to question 72

Baby live with mother now

	Percent	95% CI	
		Lower	Upper
Baby live with mother now*	99.5	98.9	100.0

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

Women received information about breastfeeding

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. My doctor	79.0	75.5	82.5
b. A nurse, midwife, or doula	62.9	58.6	67.1
c. A breastfeeding or lactation specialist	71.4	67.3	75.4
d. My baby's doctor or health care provider	66.6	62.5	70.7
e. A breastfeeding support group	26.7	22.8	30.5
f. A breastfeeding hotline or toll-free number	10.9	8.2	13.6
g. Family or friends	60.3	56.0	64.5
h. Other	9.5	6.5	12.5

60. Did you ever breastfeed or pump breast milk to feed your new baby, even for a short period of time?

Note: Women who say "No" on this question, go to question 65

Breastfeeding initiation

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who ever breastfeed or pump breast milk to feed baby	70.2	66.1	74.3

61. Are you currently breastfeeding or feeding pumped milk to your new baby?

Note: Women who say "No" on this question, go to question 62

Breastfeeding continuation

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who currently breastfeeding or feeding pumped milk to baby	43.1	38.1	48.1

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

Duration of breastfeeding or pumping milk

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
<1 week	13.0	8.5	17.5
1-7 weeks	55.1	48.3	61.8
8-23 weeks	31.5	25.2	37.8
24 weeks and longer	0.5	0.0	1.3

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Baby-friendly Hospitals

	Percent	95% CI	
		Lower	Upper
a. Hospital staff gave me information about breastfeeding	95.9	93.9	98.0
b. My baby stayed in the same room with me at the hospital	87.3	84.4	90.3
c. I breastfed my baby in the hospital	86.7	83.4	89.9
d. Hospital staff helped me learn how to breastfeed	80.8	76.6	84.9
e. I breastfed in the first hour after my baby was born	67.5	62.8	72.2
f. My baby was placed in skin-to-skin contact within the first hour of life	79.6	75.7	83.4
g. My baby was fed only breast milk at the hospital	57.9	52.8	62.9
h. Hospital staff told me to breastfeed whenever my baby wanted	84.1	80.4	87.7
i. The hospital gave me a breast pump to use	34.3	29.5	39.1
j. The hospital gave me a gift pack with formula	60.4	55.4	65.3
k. The hospital gave me a telephone number to call for help with breastfeeding	76.7	72.4	81.0
l. Hospital staff gave my baby a pacifier	54.7	49.6	59.8

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

Baby's first time drank liquids other than breast milk

	Percent	95% CI	
		Lower	Upper
<1 week	50.0	44.1	56.0
1-7 weeks	27.8	22.4	33.1
8-23 weeks	21.8	16.8	26.8
24 weeks and longer	0.4	0.0	1.1

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

65. Did anyone suggest that you *not* breastfeed your new baby?

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

Women were suggested not to breastfeed

	Percent	95% CI	
		Lower	Upper
Women were suggested not to breastfeed	9.7	7.3	12.1

66. Who suggested that you *not* breastfeed your new baby?

Who suggested not to breastfeed

	Percent	95% CI	
		Lower	Upper

a. My husband or partner	16.5	6.3	26.7
b. My mother, father, or in-laws	42.3	29.0	55.5
c. Other family member or relative	30.4	17.9	43.0
d. My friends	19.5	8.7	30.3
e. My baby's doctor, nurse, or other health care worker	22.6	11.5	33.7
f. My doctor, nurse, or other health care worker	20.0	9.3	30.6
h. Other	7.9	1.1	14.7

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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

Baby's sleeping position

	Percent	95% CI	
		Lower	Upper
a. On his or her side	13.8	10.7	16.9
b. On his or her back	68.8	64.7	72.8
c. On his or her stomach	14.2	11.1	17.2
d. On his or her side/back	2.1	0.9	3.4
e. On his or her side/stomach	0.7	0.0	1.5
f. On his or her back/stomach	0.3	0.0	0.7
g. All 3 positions	0.3	0.0	0.7

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 say "Never" on this question, go to question 70

Baby is sleeping alone

	Percent	95% CI	
		Lower	Upper
a. Always	47.6	43.3	51.9
b. Often/Almost always	16.1	12.8	19.3
c. Sometimes	13.0	10.0	15.9
d. Rarely	6.7	4.7	8.7
e. Never	16.7	13.5	20.0

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

Room sharing

	Percent	95% CI	
		Lower	Upper
Room sharing	88.1	85.1	91.1

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

Baby's sleep environment

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. In a crib, bassinet, or pack and play	83.2	80.0	86.5
b. On a twin or larger mattress or bed	37.5	33.2	41.8
c. On a couch, sofa, or armchair	11.4	6.7	14.1
d. In an infant car seat or swing	46.6	42.2	50.9
e. In a sleeping sack or wearable blanket	19.0	15.6	22.3
f. With a blanket	52.5	48.1	56.8
g. With toys, cushions, or pillows, including nursing pillows	11.3	8.6	14.1
h. With crib bumper pads (mesh or non-mesh)	17.9	14.6	21.2

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

Safe sleep discussion with healthcare providers

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Place my baby on his or her back to sleep	94.4	92.4	96.3
b. Place my baby to sleep in a crib, bassinet, or pack and play	88.7	85.9	91.4
c. Place my baby's crib or bed in my room	59.1	54.8	63.3
d. What things should and should not go in bed with my baby	91.5	89.2	93.9

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 say "Yes" on this question, go to question 74

Postpartum birth control

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women or their husband or partner were doing birth control	84.3	81.2	87.4

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

Reasons of women or their husband or partner for not doing birth control now

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I want to get pregnant	22.6	13.9	31.3
b. I am pregnant now	2.9	0.0	5.8
c. I had my tubes tied or blocked	9.1	2.6	15.6
d. I don't want to use birth control	43.7	33.2	54.3
e. I am worried about side effects from birth control	34.5	24.4	44.6

f.	I am not having sex	18.7	10.5	26.9
g.	My husband or partner doesn't want to use anything	12.2	5.3	19.1
h.	I have problems paying for birth control	4.1	0.2	8.0
g.	Other	8.9	3.8	14.1

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

74. What kind of birth control are you or your husband or partner using now to keep from getting pregnant?

Types of birth control

	Percent	95% CI	
		Lower	Upper
a. Tubes tied or blocked (female sterilization or Essure®)	18.8	15.0	22.6
b. Vasectomy (male sterilization)	2.4	0.1	4.0
c. Birth control pills	23.9	20.0	27.7
d. Condoms	31.1	26.8	35.4
e. Shots or injections (Depo-Provera®)	12.0	8.9	15.1
f. Contraceptive patch (OrthoEvra®) or vaginal ring (NuvaRing®)	3.2	1.7	4.7
g. IUD (including Mirena®, ParaGard®, Liletta®, or Skyla®)	9.3	6.7	12.0
h. Contraceptive implant in the arm (Nexplanon® or Implanon®)	9.6	6.8	12.4
i. Natural family planning (including rhythm method)	4.0	2.1	5.9
j. Withdrawal (pulling out)	22.9	18.9	26.9
k. Not having sex (abstinence)	13.1	9.9	16.3
l. Other	0.8	0.0	1.6

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

75. Since your new baby was born, have you had a postpartum checkup for yourself? A postpartum checkup is the regular checkup a woman has about 4-6 weeks after she gives birth.

Note: Women who say "No" on this question, go to question 77

Postpartum checkup

	Percent	95% CI	
		Lower	Upper
Women who had a postpartum checkup	89.4	86.7	92.2

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

Things done by healthcare providers during postpartum checkup

	Percent	95% CI	
		Lower	Upper
a. Tell me to take a vitamin with folic acid	47.5	43.0	52.0
b. Talk to me about healthy eating, exercise, and losing weight gained during pregnancy	62.5	58.2	66.8

c.	Talk to me about how long to wait before getting pregnant again	47.1	42.6	51.6
d.	Talk to me about birth control methods I can use after giving birth	85.3	82.0	88.6
e.	Give or prescribe me a contraceptive method such as the pill, patch, shot (Depo-Provera®), NuvaRing®, or condoms	52.5	47.9	57.0
f.	Insert an IUD (Mirena®, ParaGard®, Liletta®, or Skyla®) or a contraceptive implant (Nexplanon® or Implanon®)	21.9	18.1	25.7
g.	Ask me if I was smoking cigarettes	53.3	48.8	57.8
h.	Ask me if someone was hurting me emotionally or physically	40.0	35.6	44.5
i.	Ask me if I was feeling down or depressed	68.9	64.8	73.1
j.	Test me for diabetes	26.5	22.4	30.6

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

Feeling down, depressed, or hopeless

	Percent	95% CI	
		Lower	Upper
a. Always	2.1	1.0	3.2
b. Often	7.9	5.5	10.2
c. Sometimes	21.9	18.4	25.5
d. Rarely	28.1	24.2	32.0
e. Never	40.0	35.8	44.3

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

Little interest or little pleasure in doing things women usually enjoyed

	Percent	95% CI	
		Lower	Upper
a. Always	3.8	2.2	5.5
b. Often	9.9	7.4	12.4
c. Sometimes	23.3	19.7	26.9
d. Rarely	25.9	22.1	29.7
e. Never	37.0	32.9	41.2

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

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

Annually total household income before taxes

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. \$16,000 or less	35.4	31.2	39.5
b. \$16,001 to \$40,000	33.9	29.7	38.1
c. More than \$40,000	30.7	26.8	34.7

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

Numbers on the family who depend on the income

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
1	10.7	8.3	13.2
2	33.8	29.7	37.9
3	29.3	25.3	33.3
4	16.2	13.0	19.4
5	5.8	3.7	7.8
6	1.6	0.5	2.8
7	1.8	0.5	3.0
8	0.5	0.0	1.3

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

Appendix

Methods

Purpose and History

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

Findings from PRAMS is used to enhance understanding of maternal behaviors and their relationship with adverse pregnancy outcomes. Data can be used at the state level to plan, implement, monitor and evaluate programs and to inform policymakers and the general public. PRAMS helps to identify families at risk for health problems and to monitor progress over time. At the national level, PRAMS represents 83% of all US births. For year 2017 births, the Phase VIII questionnaire was used.

Sampling

This description is based on information from the CDC PRAMS website <http://www.cdc.gov/prams/methodology.htm>. The PRAMS sample of women who have had a recent live birth was drawn from the state's birth certificate file. For birth year 2017, Mississippi PRAMS sampled 2,124 mothers (1,100 respondents generalizing to a PRAMS-eligible population of 34,882). The sample was stratified by birth weight: women with very low birth weight (under 1,500 g) or low birth weight (1,500 to 2,499 g) infants were sampled at a higher rate. Records were excluded from the sample if the mother was a non-resident or gave birth out of state, mother's last name was missing in birth certificates, or the birth certificate process was delayed more than 6 months after the birth.

Data Collection

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

Weighting and Analysis

CDC PRAMS weighted the dataset, providing a final analysis weight that was the product of the weights for sampling, non-response, and non-coverage. Estimates for the PRAMS-eligible population were obtained by using the analysis weight and survey design variables. SAS 9.4 software was used for survey analysis.

Variable Definitions

Birth Certificate Variables

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

Survey Variables

Q1, Q2

Question 1 asks about women's height before pregnancy. Question 2 asks about women's weight before pregnancy. Both were used to measure Body Mass Index (BMI). According to CDC, BMI calculated as weight in kilograms divided by the square of height in meters (kg/m²). For all adults 20 years and older, it was categorized as underweight if less than 18.5; normal if 18.5 to 24.9; overweight if 25.0 to 29.9; and obese if 30.0 or more (Body Mass Index: Considerations for Practitioners, Department of Health and Human Services Centers for Disease Controls and Prevention).

Available at <http://www.cdc.gov/obesity/downloads/BMIforPactitioners.pdf>, accessed January 4th, 2020).

Q3

Question 3 asks about the women's birth date. The answer was used to categorize women's age into range group.

Q4

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

Q5

Question 5 asks about women's previous low birth weight baby. Low birth weight is defined as birth weight less than 2,500 grams (United Nations Fund and World Health Organization. Low birth weight: country, regional, and global estimates. New York: UNICEF, 2004. Available at http://www.childinfo.org/files/low_birthweight_from_EY.pdf, accessed February 4th, 2020).

Q18

Question 18 asks about women's initiation to have prenatal care. The result was categorized into trimester, those who start on first trimester and number of prenatal care visit. This may inform about how many pregnant women who had first visit of prenatal care accurately and those who delayed it.

Q35, Q36, Q37, Q38

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

Q62, Q64

Question 62 asks about women's duration of breastfeeding or pumping milk. Question number 64 asks about baby's first time drinking liquids other than breast milk. The answers to these questions were categorized into range group.

Statistical Methods

This brief surveillance report was calculated using the SAS complex sample. The statistical analysis used SAS 9.4 software with a certain SAS command on weighted data. This statistical test was used to obtain percentages from each question and the 95% Confidence Interval. Result was displayed by tables on each number. For tables, categories of maternal characteristics that had non-overlapping 95% confidence intervals were determined to be statistically significant from each other. This statistical test was used to describe findings for all PRAMS items presented in this report. Test of trend was not computed. The approach for presenting point estimates and their variability is adapted from NCHS.

Details of NCHS guidelines are available at

<http://www.cdc.gov/nchs/products/pubs/pubd/hestats/children2005/children2005.htm>. Accessed February 13th, 2020.

Strengths and Limitations

Strengths:

PRAMS is a population-based survey allowing generalization to all women with a live birth, with relatively few exclusions. PRAMS data provides overall estimates of prevalence of maternal behaviors or health problems which are useful for monitoring trends and assessing state's need for services.

Limitations:

Sample sizes for some subpopulations were too small for precise estimates. Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution. PRAMS questionnaire data are self-reported and may be subject to inaccurate reporting. This may lead to recall bias, reporting bias and mode bias. The answer also depends on how respondent interpret the questions. If respondents interpret differently than expected, inaccurate information may result. This 2017 birth dataset represents 53% response rates, below the 55% response rates required by CDC.

Survey Legends

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

Sample and Population, year 2017 births

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

Maternal characteristics	Unweighted counts	Weighted counts	95% CI Lower	95% CI Upper	Weighted percent	95% CI Lower	95% CI Upper
Age (years)							
≤19	101	2724	1969	3478	7.8	5.6	10.0
20-24	335	10253	8907	11599	29.4	25.6	33.2
25-29	335	11102	9690	12513	31.8	27.9	35.8
30-34	216	7191	6016	8366	20.6	17.2	24.0
35 and older	113	3612	2682	4543	10.4	7.7	13.0
Total	1100	34882	34159	35605	100		
Race-ethnicity							
White	473	16702	15346	18057	47.9	43.7	52.1
Black	586	16579	14933	18224	47.5	43.3	51.7
Other	41	1602	982	2222	4.6	2.8	6.4
Total	1100	34882	34159	35605	100		
Education							
Less than high school	12	258	34	483	0.7	0.1	1.4
High school	138	4423	3406	5441	12.7	9.8	15.6
Some college	308	9990	8530	11449	28.6	24.7	32.6
College graduate	640	20198	18847	21549	57.9	53.7	62.1
Total	1098	34869	34146	35592	100		
Marital Status							
Married	447	16065	14689	17441	46.1	41.9	50.2
Not Married	652	18813	17179	20446	53.9	49.8	58.1
Total	1099	34878	34156	35601	100		

Note: Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.