

MISSISSIPPI STATE DEPARTMENT OF HEALTH

PRAMS

Pregnancy
Risk
Assessment
Monitoring
System

2010

Surveillance Report Brief



Acknowledgments

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Sources for more information:

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

Introduction

The Pregnancy Risk Assessment Monitoring System (PRAMS) 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, as well as to inform policymakers and the general public. Mississippi (MS) PRAMS addresses several Title V Maternal and Child Health priorities that include factors related to low birth weight, infant mortality, access to care, teen births, and unhealthy behaviors during pregnancy (e.g. cigarette smoking).

In this report, responses to questions are provided for all women with a recent birth. Methods are explained in the appendix, including guidelines for interpreting the report. The topics covered include:

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

Healthy People 2020 objectives related to the questions are given whenever possible (U.S. Department of Health and Human Services. Office of Disease Prevention and Health Promotion. Healthy People 2020. Washington, DC. Available at <http://www.health.gov/healthypeople>. Accessed July 26th, 2013.).

Interpretation of Text and Tables

The PRAMS survey requires special weighted calculations to account for the survey design and present population level estimates. "Percent of women" refers to the proportion of Mississippi female residents with an in-state live birth minus those women who adopt infants and other exclusions. This report does not include mothers who are excluded according to CDC protocol guidelines: out of state births to state 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 (i.e. more than six months), multiple gestation infants, adopted infants, and surrogate births.

Because of the survey design, we report a margin of error and the 95% confidence interval (CI). Categories of maternal characteristics that have non-overlapping 95% CI are designated as statistically significantly different from each other. This conservative test of significance can be used to describe findings for each PRAMS questionnaire item. Responses with relative standard error above 30% are shaded in gray. Results should be interpreted with caution.

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Before pregnancy

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

Women's behaviors 12 months before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I was dieting (changing my eating habits) to lose weight	29.3	26.1	32.5
b. I was exercising 3 or more days of the week	38.5	35.1	42.0
c. I was regularly taking prescription medicines other than birth control	17.5	14.9	20.2
d. I visited a health care worker to be checked or treated for diabetes	9.9	7.8	12.0
e. I visited a health care worker to be checked or treated for high blood pressure	11.9	9.7	14.1
f. I visited a health care worker to be checked or treated for depression or anxiety	10.4	8.3	12.5
g. I talked to a health care worker about my family medical history	23.5	20.5	26.5
h. I had my teeth cleaned by a dentist or dental hygienist	45.9	42.4	49.4

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

Health insurance coverage during the month before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Health insurance from your job or the job of your husband, partner, or parents	34.4	31.1	37.7
b. Health insurance that you or someone else paid for (not from a job)	2.5	1.4	3.6
c. Medicaid	21.7	18.8	24.6
d. TRICARE or other military health care	3.8	2.5	5.2
e. Indian Health Service	0.4	0.0	0.9
f. SCHIP	1.2	0.4	2.0
g. Other source(s)	1.4	0.6	2.3
h. I did not have any health insurance before I got pregnant	35.7	32.3	39.1

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

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

Vitamin intake before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I didn't take a multivitamin, prenatal vitamin, or folic acid vitamin at all	64.4	61.0	67.8
b. 1 to 3 times a week	8.3	6.4	10.2
c. 4 to 6 times a week	4.7	3.2	6.2
d. Every day of the week	22.6	19.7	25.5

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

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

5. How tall are you without shoes?

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

Women's Body Mass Index (BMI) before pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Underweight, BMI <18.5 kg/m ²	10.6	8.4	12.8
Normal weight, BMI 18.5 kg/m ² - 24.9 kg/m ²	47.6	44.1	51.0
Overweight, BMI 25 kg/m ² -29.9 kg/m ²	13.1	10.7	15.5
Obese, BMI 30+ kg/m ²	28.5	25.3	31.7

6. What is *your* date of birth?

Women's age group (years)

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
19 and younger	16.1	13.4	18.8
20-24	31.9	28.7	35.2
25-34	45.4	41.9	48.9
35 and older	6.6	4.9	8.3

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had Type 1 or Type 2 diabetes	4.1	2.6	5.5

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had previous live birth	57.5	54.0	61.0

Previous live birth grouped

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
0	39.5	36.1	42.9
1	33.0	29.7	36.3
2	17.6	14.9	20.3
3-5	9.5	7.4	11.5
≥6	0.4	0.0	0.8

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a baby with birth-weight >2.5 kilograms in previous pregnancy	86.2	83.0	89.3

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had previous preterm birth	17.2	13.7	20.6

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
No previous live births	43.2	39.7	46.8
Normal previous live births (not LBW or PTB)	43.6	40.0	47.1
Low birth weight births	3.4	2.1	4.7
Preterm births	5.3	3.8	6.9
Low birth weight & preterm births	4.4	3.0	5.8

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

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

Age of previous child

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. 0 to 12 months	5.6	3.4	7.9
b. 13 to 18 months	11.2	8.2	14.2
c. 19 to 24 months	15.1	11.7	18.5
d. More than 2 years, less than 3 years	13.6	10.4	16.9
e. 3 to 5 years	35.8	31.2	40.4
f. More than 5 years	18.6	15.0	22.3

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

Women's feelings about becoming pregnant

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
I wanted to be pregnant sooner	12.3	10.0	14.7
I wanted to be pregnant later	40.2	36.8	43.7
I wanted to be pregnant then	30.9	27.7	34.2
I did not want to be pregnant	16.5	13.9	19.1

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women trying to get pregnant*	36.1	32.8	39.5

**Go to question 16*

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

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

Birth control use among women with unintentional pregnancies

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women or their husband or partner using birth control*	47.3	42.9	51.8

**Go to question 16*

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

Reasons for not doing anything to keep from getting pregnant

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I didn’t mind if I got pregnant	30.3	24.8	35.8
b. I thought I could not get pregnant at that time	30.7	25.1	36.2
c. I had side effects from the birth control method I was using	8.4	5.2	11.7
d. I had problems with getting birth control when I needed it	6.0	3.0	9.0
e. I thought my husband or partner or I was sterile (could not get pregnant at all)	9.3	5.9	12.8
f. My husband or partner didn’t want to use anything	23.0	17.9	28.0
g. Other(s)	9.7	6.2	13.2

During pregnancy

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

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

Women's sure of pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
First trimester	86.9	84.4	89.3
Second trimester	12.4	10.0	14.8
Third trimester	0.8	0.1	1.4

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

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

These results do not count women's visits that were only for a pregnancy test or only for WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children).

First prenatal care visit

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
First trimester prenatal care	70.1	66.8	73.3
Second trimester prenatal care	28.5	25.3	31.7
Third trimester prenatal care	1.4	0.5	2.1

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

Number of prenatal care visits

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
≤ 8 visits	12.7	10.4	15.0
9 – 11 visits	21.6	18.7	24.5
≥12 visits	65.7	62.3	69.0

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who got prenatal care as early as they wanted*	77.4	74.4	80.4

*Go to question 20

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

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

Barriers to prenatal care

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I couldn't get an appointment when I wanted one	30.7	23.8	37.5
b. I didn't have enough money or insurance to pay for my visits	37.6	30.3	44.8
c. I had no transportation to get to the clinic or doctor's office	19.3	13.1	25.4
d. The doctor or my health plan did not start care as early as I wanted	14.8	9.4	20.2
e. I had too many other things going on	12.5	7.6	17.4
f. I couldn't take time off from work or school	7.9	3.9	11.8
g. I didn't have my Medicaid card	34.8	27.7	42.0
h. I had no one to take care of my children	5.0	1.6	8.4
i. I didn't know that I was pregnant	46.0	38.6	53.4
j. I didn't want anyone else to know I was pregnant	15.1	9.7	20.5
k. I didn't want prenatal care	1.9	0.0	4.1

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

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

Health insurance coverage for prenatal care

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Health insurance from your job or the job of your husband, partner, or parents	28.5	25.4	31.7
b. Health insurance that you or someone else paid for (not from a job)	1.1	0.4	1.8
c. Medicaid	66.0	62.7	69.4
d. TRICARE or other military health care	4.5	3.0	5.9
e. Indian Health Service	0.5	0.0	1.1
f. SCHIP	0.4	0.0	0.9
g. Other source(s)	1.7	0.7	2.7
h. I did not have health insurance to help pay for my prenatal care	4.3	2.8	5.8

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

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

Women's discussion with doctor, nurse or health workers

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. How smoking during pregnancy could affect my baby	81.3	78.5	84.0
b. Breastfeeding my baby	88.6	86.3	90.9
c. How drinking alcohol during pregnancy could affect my baby	78.7	75.8	81.6
d. Using a seat belt during my pregnancy	55.3	51.8	58.8
e. Medicines that are safe to take during my pregnancy	91.3	89.3	93.3
f. How using illegal drugs could affect my baby	72.5	69.4	75.7
g. Doing tests to screen for birth defects or diseases that run in my family	84.5	81.9	87.1
h. The signs and symptoms of preterm labor (labor more than 3 weeks before the baby is due)	80.7	77.9	83.5
i. What to do if my labor starts early	82.5	79.8	85.2
j. Getting tested for HIV (the virus that causes AIDS)	72.4	69.3	75.6
k. What to do if I feel depressed during my pregnancy or after my baby is born	64.9	61.5	68.3
l. Physical abuse to women by their husbands or partners	45.8	42.3	49.4

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had HIV test during pregnancy	75.2	71.8	78.6

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women on WIC program during pregnancy	67.7	64.4	70.9

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had gestational diabetes during this pregnancy	9.0	7.0	11.0

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

Problems during the most recent pregnancy

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Vaginal bleeding	17.7	15.1	20.4
b. Kidney or bladder (urinary tract) infection	31.8	28.5	35.1
c. Severe nausea, vomiting, or dehydration	39.3	35.8	42.7
d. Cervix had to be sewn shut (cerclage for incompetent cervix)	2.2	1.2	3.2
e. High blood pressure, hypertension (including pregnancy-induced hypertension [PIH]), preeclampsia, or toxemia	19.9	17.1	22.6
f. Problems with the placenta (such as abruptio placenta or placenta previa)	5.9	4.2	7.5
g. Labor pains more than 3 weeks before my baby was due (preterm or early labor)	25.2	22.2	28.1
h. Water broke more than 3 weeks before my baby was due (premature rupture of membranes [PROM])	4.7	3.5	5.8
i. I had to have a blood transfusion	1.9	1.0	2.9
j. I was hurt in a car accident	1.6	0.7	2.5

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

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who smoked any cigarettes in the past 2 years*	30.3	27.1	33.6

* Go to question 27

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who smoked 3 months before pregnancy	26.6	23.5	29.8

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. 41 cigarettes or more	1.4	0.0	2.8
b. 21 to 40 cigarettes	10.7	6.6	14.8
c. 11 to 20 cigarettes	23.7	18.1	29.2
d. 6 to 10 cigarettes	20.4	15.1	25.7
e. 1 to 5 cigarettes	27.0	21.1	32.8
f. Less than 1 cigarette	4.9	2.1	7.6
g. I didn't smoke then	12.0	7.7	16.2

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who smoked in last 3 months of pregnancy	15.1	12.5	17.7

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. 41 cigarettes or more	0.8	0.0	1.9
b. 21 to 40 cigarettes	1.8	0.1	3.5
c. 11 to 20 cigarettes	5.5	2.6	8.4
d. 6 to 10 cigarettes	16.1	11.1	21.0
e. 1 to 5 cigarettes	18.8	13.6	23.9
f. Less than 1 cigarette	7.1	3.7	10.6
g. I didn't smoke then	50.0	43.5	56.6

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who smoke now	21.5	18.5	24.4

Amount of cigarettes mothers smoke on an average day now

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. 41 cigarettes or more	0.8	0.0	1.9
b. 21 to 40 cigarettes	5.0	2.3	7.8
c. 11 to 20 cigarettes	17.7	12.7	22.7
d. 6 to 10 cigarettes	23.4	17.8	29.0
e. 1 to 5 cigarettes	19.4	14.2	24.6
f. Less than 1 cigarette	4.6	1.8	7.3
g. I didn't smoke then	29.1	23.2	35.0

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

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

Rules about smoking inside the home

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. No one is allowed to smoke anywhere inside my home	88.7	86.5	91.0
b. Smoking is allowed in some rooms or at some times	9.8	7.7	11.9
c. Smoking is permitted anywhere inside my home	1.5	0.6	2.4

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).

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who drank alcohol in the past 2 years*	53.8	50.3	57.3

*Go to question 32a

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

Amount of drinks women had in an average week before pregnancy

	Percent	95% CI	
		Lower	Upper
a. 14 drinks or more a week*	1.0	0.1	1.9
b. 7 to 13 drinks a week*	2.6	1.1	4.1
c. 4 to 6 drinks a week*	8.0	5.3	10.6
d. 1 to 3 drinks a week*	22.9	18.8	27.0
e. Less than 1 drink a week*	45.9	41.1	50.8
f. I didn't drink then**	19.7	15.9	23.5

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

*Go to question 32b

**Go to question 33a

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

Frequency of having 4 or more alcoholic drinks in one sitting before pregnancy

	Percent	95% CI	
		Lower	Upper
a. 6 or more times	3.2	1.3	5.2
b. 4 to 5 times	6.3	3.6	9.0
c. 2 to 3 times	14.5	10.7	18.2
d. 1 time	17.6	13.4	21.8
e. I didn't have 4 drinks or more in 1 sitting	58.4	53.1	63.8

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

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

Amount of alcoholic drinks women had in an average week during the last 3 months of pregnancy

	Percent	95% CI	
		Lower	Upper
a. 14 drinks or more a week*	0.0	0.0	0.0
b. 7 to 13 drinks a week*	0.0	0.0	0.0
c. 4 to 6 drinks a week*	0.3	0.0	0.7
d. 1 to 3 drinks a week*	1.4	0.3	2.5
e. Less than 1 drink a week*	7.1	4.6	9.6
f. I didn't drink then**	91.2	88.5	93.9

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

*Go to question 33b

**Go to question 34

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

Frequency of having 4 or more alcoholic drinks in one sitting during the last 3 months of pregnancy

	Percent	95% CI	
		Lower	Upper
a. 6 or more times	0.0	0.0	0.0
b. 4 to 5 times	0.0	0.0	0.0
c. 2 to 3 times	4.2	0.0	10.5
d. 1 time	4.3	0.0	12.3
e. I didn't have 4 drinks or more in 1 sitting	91.5	81.5	100.0

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 following questions are about events that may have happened before and during the most recent pregnancy.

34. This question is about events 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	27.7	24.6	30.9
b. I got separated or divorced from my husband or partner	9.8	7.8	11.9
c. I moved to a new address	31.7	28.4	35.0
d. I was homeless	2.8	1.6	4.1
e. My husband or partner lost his job	15.8	13.1	18.4
f. I lost my job even though I wanted to go on working	13.4	10.9	15.8
g. I argued with my husband or partner more than usual	29.7	26.5	32.9
h. My husband or partner said he didn't want me to be pregnant	8.9	6.9	10.8
i. I had a lot of bills I couldn't pay	22.1	19.2	25.0
j. I was in a physical fight	6.7	5.0	8.5
k. My husband or partner or I went to jail	6.3	4.5	8.0
l. Someone very close to me had a problem with drinking or drugs	16.3	13.7	18.9
m. Someone very close to me died	22.7	19.8	25.7

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had physical abuse from husband or partner before pregnancy	7.4	5.5	9.2

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had physical abuse from husband or partner during pregnancy	6.1	4.4	7.8

The next questions are about your labor and delivery.

37. When was your baby due?

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who delivered baby in hospital	99.3	98.7	99.9

39. When was your baby born?

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

Women's length of stay in the hospital

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
0-2 nights	40.0	36.5	43.5
3-4 nights	50.0	46.5	53.6
≥5 nights	10.0	8.0	12.0

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

Health insurance coverage for delivery

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Health insurance from your job or the job of your husband, partner, or parents	26.7	23.6	29.8
b. Health insurance that you or someone else paid for (not from a job)	0.9	0.3	1.6
c. Medicaid	70.1	67.0	73.3
d. TRICARE or other military health care	4.5	3.0	5.9
e. Indian Health Service	0.4	0.0	0.9
f. SCHIP	0.2	0.0	0.6
g. Other source(s)	1.2	0.4	2.0
h. I did not have health insurance to help pay for my delivery	3.7	2.3	5.1

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

After pregnancy

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
The baby was in ICU after birth	10.5	8.7	12.3

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

Baby's length of stay in the hospital

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Less than 24 hours (<1 day)*	1.3	0.6	2.0
b. 24 to 48 hours (12 days)*	52.2	48.7	55.7
c. 3 to 5 days*	38.4	34.9	41.8
d. 6 to 14 days*	4.6	3.4	5.9
e. More than 14 days*	2.9	2.3	3.4
f. My baby was not born in a hospital*	0.3	0.0	0.6
g. My baby is still in the hospital**	0.4	0.1	0.6

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

* Go to question 44

** Go to question 46

44. Is your baby alive now?

Note: Women who say "No" on this question, go to question 52

	Percent	95% CI	
		Lower	Upper
Baby is alive now*	99.2	98.7	99.7

*Go to question 45

45. Is your baby living with you now?

Note: Women who say "No" on this question, go to question 52

	Percent	95% CI	
		Lower	Upper
Baby lives with mother now*	98.9	98.2	99.7

*Go to question 46

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

Note: Women who say "No" on this question, go to question 49b

	Percent	95% CI	
		Lower	Upper
Women who ever breastfed or pumped breast milk to feed baby*	56.4	52.9	60.0

* Go to question 47

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

Note: Women who say "No" on this question, go to question 48

	Percent	95% CI	
		Lower	Upper
Women who are currently breastfeeding or feeding pumped milk to baby*	32.6	28.2	37.1

*Go to question 49a

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

Duration of breastfeeding or pumping milk

	Percent	95% CI	
		Lower	Upper
<1 week	9.9	6.5	13.3
17 weeks	65.4	60.0	70.9
≥8 weeks	24.7	19.8	29.6

*Note: This is NOT exclusive breastfeeding.

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

Baby's first time drinking liquids other than breast milk

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
<1 week	33.1	28.1	38.0
1-7 weeks	47.3	42.1	52.5
≥8 weeks	19.6	15.5	23.7

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

Baby's first time ate food

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
<1 week	1.3	0.4	2.2
1-7 weeks	23.6	19.6	25.5
≥8 weeks	75.1	71.1	78.2

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

Baby's sleeping position

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. On his or her side	16.0	13.4	18.6
b. On his or her back	61.7	58.2	65.1
c. On his or her stomach	17.3	14.5	20.0
d. On his or her side/back	3.8	2.4	5.1
e. On his or her side/stomach	0.3	0.0	0.7
f. On his or her back/stomach	0.8	0.2	1.4
g. All 3 positions	0.2	0.0	0.5

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
The baby had check-up one week after delivery	83.5	80.8	86.2

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women or their husband or partner were using birth control	89.7	87.6	91.9

**Go to question 54*

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. I am not having sex	26.0	16.6	35.4
b. I want to get pregnant	13.6	6.6	20.7
c. I don’t want to use birth control	26.1	16.7	35.5
d. My husband or partner doesn’t want to use anything	11.0	4.3	17.6
e. I don’t think I can get pregnant (sterile)	4.7	0.6	8.8
f. I can’t pay for birth control	11.3	4.0	18.6
g. I am pregnant now	3.7	0.0	7.6
h. Other(s)	23.0	14.1	31.7

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

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

1	2	3	4	5
Never	Rarely	Sometimes	Often	Always

Women's feelings after childbirth

		Percent	95% CI	
			<i>Lower</i>	<i>Upper</i>
a.	I felt down, depressed, or sad			
	Never	38.1	34.7	41.6
	Rarely	17.6	14.9	20.3
	Sometimes	24.9	21.9	28.0
	Often	13.8	11.3	16.2
	Always	5.6	3.9	7.2
b.	I felt hopeless			
	Never	65.6	62.3	69.0
	Rarely	12.3	10.0	14.5
	Sometimes	12.4	10.1	14.7
	Often	6.5	4.8	8.3
	Always	3.2	1.9	4.4
c.	I felt slowed down			
	Never	33.1	29.8	36.5
	Rarely	19.6	16.8	22.4
	Sometimes	24.8	21.8	27.9
	Often	15.2	12.7	17.7
	Always	7.2	5.4	9.1

Other experiences

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

Discussion with a doctor, nurse, or other health care workers during 12 months before pregnancy

	Percent	95% CI	
		Lower	Upper
a. Taking a multivitamin with folic acid	48.4	44.9	51.9
b. Maintaining or being a healthy weight	58.6	55.1	62.1
c. Getting a yearly checkup	69.0	65.7	72.2
d. Eating healthy and drinking water everyday	71.0	67.7	74.1
e. Quitting smoking	44.2	40.7	47.7
f. Quitting drinking alcohol	37.1	33.7	40.5
g. Using birth control	67.1	63.7	70.4

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

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

	Percent	95% CI	
		Lower	Upper
Women who had any tests for birth defects during prenatal care*	62.6	59.0	66.2

*Go to question 58

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

Reasons for not having birth defect test during pregnancy

	Percent	95% CI	
		Lower	Upper
a. I was not told about any tests for birth defects	20.3	15.4	25.2
b. I did not understand the reason for the test	5.1	2.5	7.8
c. I do not like having my blood drawn	6.6	3.5	9.8
d. I heard the tests were unreliable	13.1	9.0	17.2
e. I did not want to know if my baby had birth defects	42.9	37.0	48.8
f. The cost of the blood test was too high	1.6	0.0	3.3
g. Other(s)	23.5	18.4	28.5

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

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

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

	Percent	95% CI	
		Lower	Upper
a. My doctor or nurse did not understand my concerns	4.4	3.0	5.9
b. My doctor or nurse did not answer my questions	3.4	2.1	4.6
c. I did not understand what my doctor or nurse was telling me	4.9	3.3	6.4
d. My doctor or nurse seemed not to care about me or my pregnancy	4.7	3.2	6.2

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

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

	Percent	95% CI	
		Lower	Upper
Women who had an infection (UTI, STD, <i>Bacterial vaginosis</i> or Group B Strep)*	42.3	38.8	45.7

*Go to question 60

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

Type of infection/disease told by health care workers

	Percent	95% CI	
		Lower	Upper
a. Genital warts (HPV)	2.1	0.6	3.6
b. Herpes	3.5	1.5	5.4
c. Chlamydia	7.5	4.6	10.4
d. Gonorrhea	1.5	0.1	2.8
e. Pelvic inflammatory disease (PID)	0.1	0.0	0.2
f. Syphilis	0.6	0.0	1.5
g. Group B Strep (Beta Strep)	20.3	16.0	24.6
h. <i>Bacterial vaginosis</i>	9.2	6.2	12.2
i. <i>Trichomoniasis</i> (Trich)	6.6	4.0	9.3
j. Yeast infections	25.6	21.0	30.3
k. Urinary tract infection (UTI)	60.0	54.8	65.3
l. Other(s)	6.6	4.0	9.3

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

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

Things that will help women during pregnancy

	Percent	95% CI	
		Lower	Upper
a. A pregnancy support group	13.5	11.1	15.9
b. A 1800 Toll Free Help Line	6.9	5.1	8.6
c. Assistance with finding a daycare or child care provider	14.8	12.3	17.3
d. Better health insurance	14.4	11.9	16.8
e. A more supportive husband or partner	20.1	17.3	22.9
f. Home visits from a social worker or other health care worker to give me advice	6.1	4.5	7.8
g. Other	5.7	4.1	7.3
h. None of these things would have helped me	44.3	40.8	47.8

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

Women's care of teeth during pregnancy

	Percent	95% CI	
		Lower	Upper
a. I went to a dentist or dental clinic for a checkup	28.9	25.7	32.1
b. I went to a dentist or dental clinic to have my teeth cleaned	27.8	24.7	31.0
c. I had painful, red, or swollen gums	17.1	14.4	19.8
d. I had to have a tooth pulled	6.1	4.5	7.8
e. I had cavities that needed to be filled	23.4	20.4	26.5
f. I needed to see a dentist for an abscess (infection surrounded by inflamed tissue)	7.4	5.6	9.3
g. A dental or other health care provider talked with me about how to care for my teeth and gums	27.3	24.1	30.4

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

Discussion before discharged from hospital after delivery

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Having a car seat ready for my new baby	96.1	94.7	97.5
b. Having a crib ready for my new baby	65.1	61.7	68.6
c. How or where to lay my baby down to sleep	88.5	86.2	90.8
d. How to prepare my baby's bed for sleeping	67.4	64.0	70.7
e. How to dress my baby in cold or hot weather	62.3	58.8	65.8
f. How to position my baby for feeding	83.6	80.9	86.3
g. How often and how much to feed my baby	90.9	88.8	93.0
h. How to get help if I need it when breastfeeding the baby	77.2	74.1	80.2
i. How smoking near my baby could affect him or her	78.8	75.9	81.8
j. How often to take my baby to the doctor for shots or checkups	86.1	83.6	88.6
k. How to watch my baby for signs of possible illness	78.5	75.6	81.5
l. How to take care of my baby while at home	81.0	78.1	83.8

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

Problems by close family members (blood relatives)

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Diabetes	49.1	45.4	52.8
b. Heart problems	40.8	37.0	44.5
c. High blood pressure (Hypertension)	70.6	67.3	74.0
d. Depression	38.9	35.1	42.7
e. Postpartum depression	16.3	13.4	19.2
f. Anxiety	34.9	31.2	38.6

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had a miscarriage or baby that died*	25.2	22.2	28.3

*Go to question 66

66. Please check the primary reason for death.

Reasons for baby's death

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. SIDS or Sudden Infant Death Syndrome (Crib Death)	0.8	0.0	1.8
b. Birth defect	2.6	0.7	4.4
c. Premature birth (born too early)	7.1	3.8	10.4
d. Miscarriage	76.4	70.7	82.1
e. Birth weight was too low	0.8	0.0	1.9
f. Pregnancy complications	5.0	1.9	8.2
g. Accident	4.0	1.1	6.8
h. Other	7.6	4.2	11.0
i. I don't know the cause of death	4.9	2.1	7.8

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

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

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
Women who had asthma	14.0	11.6	16.5

The following questions are about the *12 months before your new baby was born.*

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

Annual total household income before taxes

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
a. Less than \$10,000	33.7	30.2	37.2
b. \$10,000 to \$14,999	13.7	11.2	16.2
c. \$15,000 to \$19,999	7.7	5.8	9.6
d. \$20,000 to \$24,999	10.0	7.8	12.3
e. \$25,000 to \$34,999	9.9	7.7	12.0
f. \$35,000 to \$49,999	7.4	5.5	9.4
g. \$50,000 or more	17.5	14.7	20.3

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

Number of people who depended on the household income

	Percent	95% CI	
		<i>Lower</i>	<i>Upper</i>
1 person	12.1	9.8	14.4
2 people	30.8	27.5	34.0
3 people	29.2	26.0	32.4
4 people	15.8	13.2	18.4
5 people	7.6	5.7	9.5
6 or more people	7.2	5.3	9.0

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 are used to enhance understanding of maternal behaviors and their relationship with adverse pregnancy outcomes. Data can be used at the state level to plan, implement, monitor and evaluate programs and to inform policymakers and the general public. PRAMS helps identify at risk populations and monitors progress over time. At the national level, PRAMS represents 78% of all U.S. births. For year 2010 births, the Phase V 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 2010, Mississippi PRAMS sampled 1,244 mothers (generalizing to a PRAMS-eligible population of 37,381). The sample was stratified by birth weight: women with very low birth weight (less than 1,500 g) or low birth weight (1,500 g to 2,499 g) infants were sampled at a higher rate. Records were excluded from the sample if the mother was a non-resident, if the mother gave birth out of state, if there was missing data from birth certificates, or if there was delayed processing of the birth certificates.

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 9.3 software was used for survey analysis.

Variable Definitions

Birth Certificate Variables

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

Survey Variables

Q4, Q5

Question 4 asks about women's weight before pregnancy. Question 5 asks about women's height before pregnancy. Both were used to measure Body Mass Index (BMI). According to CDC, BMI is calculated as weight in kilograms divided by the square of height in meters (kg/m^2). For all adults 20 years and older, it was categorized as underweight if less than 18.5; normal if 18.5 to 24.9; overweight if 25.0 to 29.9; and obese if 30.0 or more (Body Mass Index: Considerations for Practitioners, Department of Health and Human Services Centers for Disease Controls and Prevention. Available at <http://www.cdc.gov/obesity/downloads/BMIforPactitioners.pdf>, accessed July 26th, 2013).

Q6

Question 6 asks about the women's birth date. The response was used to categorize women's ages into groups.

Q9

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

Q11

Question 11 asks about women's previous baby's age. The result is categorized into baby's age group and this question may be used to interpret birth spacing.

Q26, Q27, Q28, Q29

These questions ask about smoking habits among women. Responses were dichotomized as 'yes' or 'no'. For women who smoke, follow-up questions are asked about smoking habit questions before, during and after pregnancy.

Q38, Q40

Question 38 asks about women's admission to hospital. Question number 40 asks about women's discharged from the hospital after hospitalization. From these questions, the length of maternal hospitalization for delivery was calculated.

Statistical Methods

This brief surveillance report was produced using the SAS version 9.3 with complex sample for weighted data. Descriptive statistics were used to create summary percentages from each question and the 95% confidence interval (CI). Percentages of maternal characteristics with non-overlapping 95% confidence intervals were considered statistically significant. This conservative test of significance was used for all PRAMS questionnaire items presented in this report. Trend tests were not computed. The approach for presenting point estimates and their variability is adapted from National Center for Health Statistics (NCHS). Details of NCHS guidelines are available at <http://www.cdc.gov/nchs/products/pubs/pubd/hestats/children2005/children2005.htm>. Accessed July 26th, 2013.

Strengths and Limitations

Strengths:

PRAMS is a population-based survey allowing generalization to all women with a live birth with relatively few exclusions. PRAMS data provides overall estimates of prevalence of maternal behaviors or health problems which are useful for monitoring trends and assessing a state's need for services (MS PRAMS Surveillance Protocol, February 19, 2011). This 2010 birth dataset represents a 64.4% response rate, slightly below the 65% response rate required by the CDC.

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/or mode bias. Survey responses are also influenced by how respondents interpret the questions. If respondents interpret questions differently than expected, inaccurate data may result.

Survey Guide

The survey guide was designed to provide direction 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) 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 2010 births

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

Maternal characteristics	Unweighted counts	Number	Weighted estimates				
			95% CI Lower	95% CI Upper	Weighted percent	95% CI Lower	95% CI Upper
Age (years)							
All women	1,244	37,381	37,075	37,687	100.0	.	.
19 and younger	199	6,014	4,992	7,035	16.1	13.4	18.8
20-24	395	11,941	10,717	13,164	31.9	28.7	35.2
25-34	551	16,964	15,687	18,242	45.4	41.9	48.9
35+	99	2,462	1,830	3,095	6.6	4.9	8.3
Race-ethnicity							
All women	1,244	37,381	37,075	37,687	100.0	.	.
White	524	18,634	17,323	19,945	49.8	46.3	53.4
Black	670	16,754	15,453	18,055	44.8	41.4	48.3
Other	50	1,993	1,369	2,618	5.3	3.7	7.0
Education (years completed)							
All women	1,238	37,237	36,934	37,541	100.0	.	.
Less than high school	249	8,304	7,064	9,544	22.3	19.2	25.4
High school	397	11,458	10,307	12,609	30.8	27.6	33.9
Some college	357	10,154	9,040	11,269	27.3	24.2	30.3
College graduate	235	7,321	6,314	8,328	19.7	16.9	22.4
Marital status							
All women	1,244	37,381	37,075	37,687	100.0	.	.
Married	496	15,754	14,497	17,011	42.1	38.7	45.6
Not married	748	15,754	14,497	17,011	57.9	54.4	61.3
Medicaid for PNC &/or delivery							
All women	1,244	37,381	37,075	37,687	100.0	.	.
No	337	10,588	9,428	11,749	28.3	25.2	31.5
Yes	907	26,793	25,551	28,034	71.7	68.5	74.8

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

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



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