

# LOUISIANA PRAMS SURVEILLANCE REPORT 2015

Louisiana Pregnancy Risk Assessment Monitoring System  
Key Findings



## *Preface*

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Since 1997, the Louisiana Pregnancy Risk Assessment Monitoring System (PRAMS) has provided vital information on women's behaviors and experiences before, during and after pregnancy. Louisiana PRAMS is a population-based survey of Louisiana resident women who deliver a live-born infant in the state within a given calendar year. Louisiana PRAMS data can be used by program planners, healthcare providers, policy makers and public health leaders to design, implement and evaluate programs and services relevant to women and infants in Louisiana. The 2015 Louisiana PRAMS Surveillance Report, a compilation of Louisiana PRAMS results for selected indicators, highlights data for births occurring in 2015.

In 2015, there were 63,951 live births that satisfied the Louisiana PRAMS inclusion criteria, of which 2,883 were sampled. Of this sample, there were 1,902 respondents, resulting in a 66% overall weighted response rate. The Louisiana PRAMS 2015 questionnaire is available as a separate file at the Partners for Family Health website listed below.

Louisiana PRAMS is funded by the U.S. Centers for Disease Control and Prevention (CDC) under Cooperative Endeavor Agreement #U01 DP6227-03 and administered by the Louisiana Department of Health (LDH), Office of Public Health (OPH), Bureau of Family Health (BFH).

More information about PRAMS can be found at [cdc.gov/prams/index.htm](http://cdc.gov/prams/index.htm) or under Louisiana PRAMS on the Partners for Family Health website: [partnersforfamilyhealth.org/prams/](http://partnersforfamilyhealth.org/prams/).

# Acknowledgements

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Special thanks to the following contributors for their collaborative effort on this report:

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Louisiana Vital Records and Statistics

Thank you to the women who shared their experiences so we could better understand the circumstances impacting the health status of mothers and infants in Louisiana.

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# Executive Summary

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## Louisiana PRAMS Background

The goal of the Louisiana Pregnancy Risk Assessment Monitoring System (PRAMS) is to reduce infant and pregnancy-related maternal morbidity and mortality by informing maternal and child health programs and policies, and supporting healthy maternal behaviors. Louisiana PRAMS works toward this goal by: collecting high quality population-based data, conducting analyses of maternal behaviors and experiences and their relationship to health outcomes, and translating those data and analyses into information that can be used to guide and evaluate health-related programs and policies.

The Louisiana Department of Health (LDH), Office of Public Health (OPH), Bureau of Family Health (BFH), administers Louisiana PRAMS in conjunction with the U.S. Centers for Disease Control and Prevention (CDC). Louisiana PRAMS is funded by the CDC under Cooperative Endeavor Agreement #U01 DP6227 – 03. PRAMS collects state-specific, population-based data on maternal attitudes, behaviors and experiences around the time of pregnancy and childbirth and is linked to Louisiana Vital Records birth data files.

## Key Findings

Each year Louisiana PRAMS samples about 4% of an average of 64,000 births in Louisiana. Each month, a stratified random sample of approximately 200 live births is selected. In 2015, 2,883 mothers were sampled and 1,902 responded. Key findings for frequently requested data are highlighted below.

### Family Planning:

- **49%** of mothers in Louisiana **did not intend to become pregnant or were unsure** if they wanted to become pregnant. **63%** of the women who were not trying to get pregnant **reported not doing anything to prevent a pregnancy**.
- Among women who reported not using any contraceptive methods to prevent an unintended pregnancy, the most common reasons were: I didn't mind if I got pregnant (39%), I thought I couldn't get pregnant (20%) and my husband/partner didn't want to use anything (17%).

### Prenatal Care:

- **78%** of mothers reported they **received prenatal care during their first trimester**. 22% of mothers began prenatal care after their first trimester and about 1% of mothers reported not receiving any prenatal care during their pregnancy.
- The most commonly reported **barriers to receiving prenatal care** during pregnancy as early as desired were: not being able to get an appointment (42%), not having a Medicaid or LaMoms card (36%) and not having money or insurance to pay (33%).

### Prenatal Risk Factors:

- **12%** of women reported that they **smoked cigarettes during the last three months of pregnancy**. **17%** of women reported that they were **currently smoking cigarettes at the time of the survey**.
- **7%** of women reported they **consumed at least one alcoholic drink during the last three months of pregnancy**.

### Breastfeeding and Infant Care:

- **66%** of women **breastfed or fed pumped milk** to their new baby **at least once**. **69%** of women who **initiated breastfeeding were still breastfeeding** at the time of the survey.
- **66%** of women reported that their **new baby is put to sleep most often on his/her back**.

More information on maternal and child health topics can be found within this report. This information is vital to inform policy and decision-making, and central to the health education of providers and the public.

## Sampling and Data Collection

Women are selected to participate in PRAMS from Louisiana's Vital Records birth certificate files. To participate in Louisiana PRAMS, mothers must be Louisiana residents who gave birth to a live born infant in Louisiana. Each month, a stratified random sample of approximately 200 live births is selected. In 2015, the strata used in sampling were birth weight, race and geographic region in the following arrangement:

- Orleans Parish, African American
- Other, African American, Low Birth Weight (<2500 grams)
- Other, African American, Normal Birth Weight (>2500 grams)
- Other, Non-African American, Low Birth Weight (<2500 grams)
- Other, Non-African American, Normal Birth Weight (>2500 grams)

Beginning in 2012, stratification of African American mothers in Orleans Parish was implemented as part of Louisiana's participation in the W.K. Kellogg Foundation's partnership with CDC PRAMS.

Each monthly sample follows a 90-day cycle of scheduled contact attempts, including a mailed questionnaire with multiple follow-ups and an attempted phone interview for all non-respondents after the failed mail contact attempts. The day after the sample is selected, an introductory letter is mailed followed by the initial questionnaire packet within seven days of the introductory letter. The packet contains the questionnaire, an informed consent, a calendar, a Louisiana PRAMS informational page, and a small incentive gift provided for by federal funds.

If the questionnaire is not returned, a reminder letter is sent 7 to 10 days after the initial questionnaire is mailed, and a second questionnaire is mailed approximately 12 days after the reminder letter. If the second questionnaire is not returned, a third and final questionnaire is mailed approximately two weeks after the second questionnaire. Telephone follow-up is utilized for women who have not responded by mail by day 63 and continues until day 90. Several methods are used to identify phone numbers for women entering the telephone phase, and a maximum 15 attempts are made on each identified phone number before the participant is considered unreachable.

More detailed information on PRAMS methodology, including weighting procedures, may be found on the CDC website at [cdc.gov/prams/methodology.htm](http://cdc.gov/prams/methodology.htm).

## Data Analysis and Dissemination

Each year, a state analysis plan is developed by Louisiana PRAMS. This plan is based on the Healthy People 2020 goals and objectives relating to maternal and child health; the expressed analytic needs of the Bureau of Family Health (BFH); and the guidance of the Louisiana PRAMS Steering Committee, which is comprised of internal BFH staff and external stakeholders who have an interest in using PRAMS data for maternal and child health purposes. This plan is ultimately approved jointly by the BFH Management Team and the Louisiana PRAMS Coordinator.

Additional analyses occur in response to data requests made by BFH program staff and other researchers. Data dissemination occurs on a statewide and national basis. Current dissemination activities include presentations at national meetings and data factsheets. This Louisiana PRAMS Surveillance Report is the project's annual publication and presents the results of data collection and analyses of the most currently available data.

## Louisiana PRAMS Response Rates

Louisiana PRAMS data are weighted to be reflective of all Louisiana mothers delivering a live-born singleton, twin or triplet in Louisiana. The CDC recommends a response rate of at least 55% for data to be considered representative of the population. Louisiana's 2015 weighted response rate was 66% and successfully met this threshold.

## Maternal Demographics

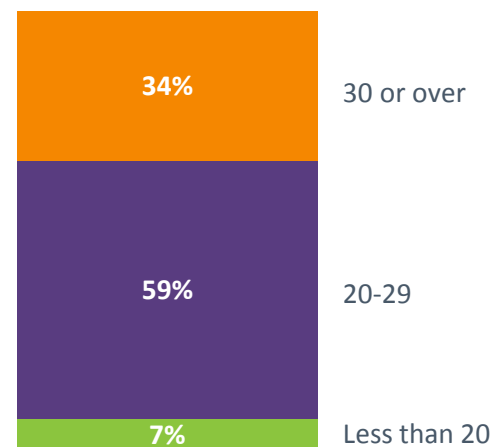
Louisiana differs from many U.S. states in its demographic and socioeconomic profile. In 2015, 37% of all Louisiana resident births were to non-Hispanic black mothers, compared with 15% nationally. 48% of births were to mothers with a high school degree or lower compared with 39% nationally. 49% of PRAMS respondents were married women and 98% of respondents delivered singleton births. Louisiana's consistently low health ranking and persistent racial health disparities indicate the need for continued, reliable assessment of women's health, behaviors and experiences before, during and after their pregnancies.

### Nearly half (47%) of women are **WIC participants**

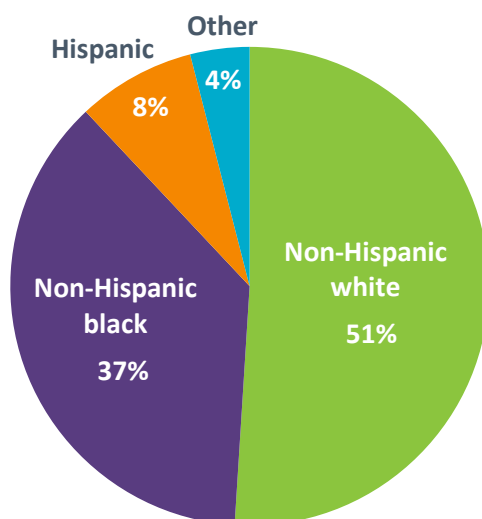
The Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) provides Federal grants to States for supplemental foods and health care referrals, for low-income pregnant and postpartum women, and to infants and children up to age five found to be at nutritional risk.



### Most Louisiana mothers are in their **20s**



### The majority of Louisiana mothers are **non-Hispanic white** and **non-Hispanic black**



**52%**  of mothers in Louisiana have more than a high school education

**30%** are high school graduates/GED

**18%** have less than a high school education

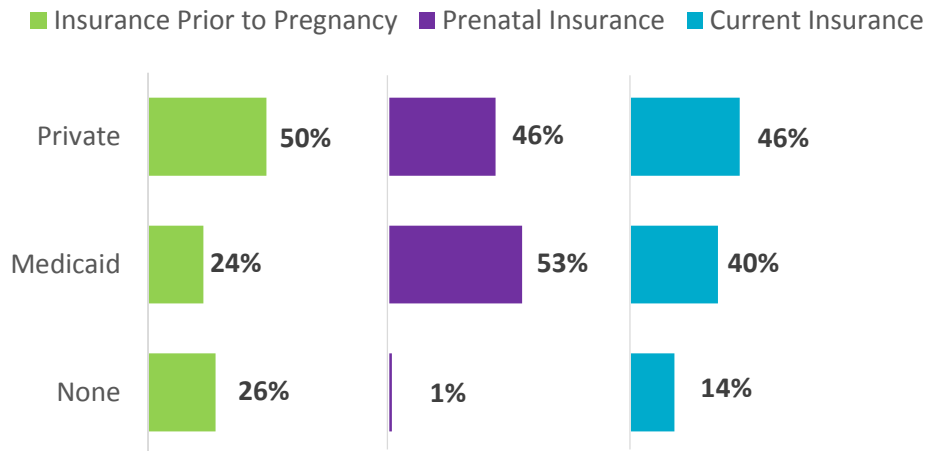


## Insurance

Adequate insurance coverage is essential to the receipt of high quality prenatal and delivery care to support a mother's and baby's health. As of 2014, the Affordable Care Act made health insurance for pregnancy, labor, delivery and newborn care mandatory. In 2015, Medicaid provided prenatal coverage for 52% of Louisiana women, compared with 43% nationally.

### Health insurance coverage: prior to, during and after pregnancy

Health insurance coverage gaps exist, especially among those without private insurance prior to pregnancy.

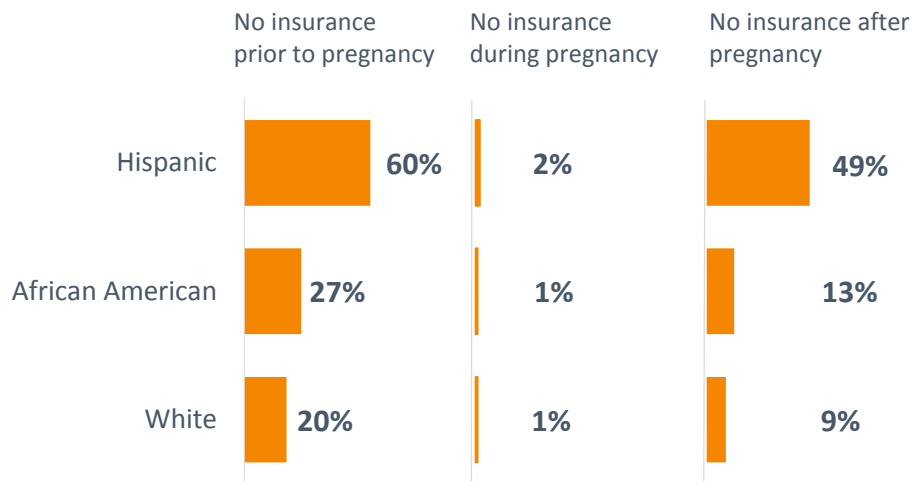


*"The only reason I had to wait until 19 weeks for prenatal care was Medicaid took 9 weeks to approve my application. I would have started prenatal care sooner."*

- PRAMS Mom

### Racial disparities\* among women without health insurance

\*Denominator is the racial group



Hispanic women in Louisiana were the **most likely** to be uninsured prior to pregnancy.

During pregnancy, close to 68% of Hispanic women were covered through Medicaid, but **49% of Hispanic women no longer qualified for any coverage after giving birth**, making them the **highest uninsured group after pregnancy**.

## Public Health Implications

While Medicaid covered over half of Louisiana births prenatally, substantially fewer mothers had postpartum insurance coverage. Additionally, there is a large racial disparity in insurance coverage. More white women have insurance coverage both prior to and after pregnancy compared to women of other races and ethnicities. Continuous access to health insurance and healthcare for women could improve maternal and infant health by providing opportunities to manage or treat conditions before, during and between pregnancies (The Henry J. Kaiser Family Foundation, 2010).



# Preconception Risk Factors & Outcomes

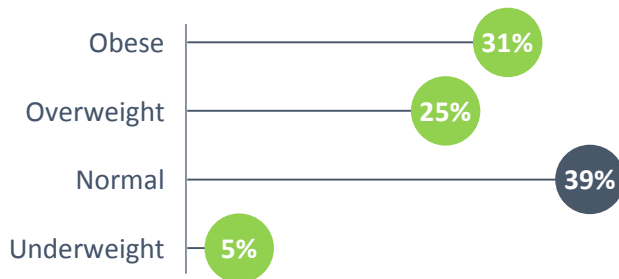
Adverse birth outcomes in Louisiana are linked to poor maternal health status at conception. Poor preconception health, pre-pregnancy weight, pre-pregnancy conditions (including diabetes and hypertension), and lack of interconception care are key drivers of low birth weight, preterm births and infant mortality. This is particularly true for women who have had prior adverse birth outcomes. According to [AmericasHealthRankings.org](http://AmericasHealthRankings.org), Louisiana ranks 39<sup>th</sup> in the nation for diabetes and 50<sup>th</sup> for obesity.



**Healthy People 2020 Goal:** Increase the proportion of women delivering a live birth who took multivitamins/folic acid every day in the month prior to pregnancy.

- Healthy People 2020 target: **33.3%**
- 2015 Louisiana status: **26.4%**

Prior to pregnancy, the majority of women had BMIs **outside** of the normal weight range



*\*Weight criteria based on national Body Mass Index (BMI) categories and calculated from self-reported height and weight on PRAMS Survey*

Pre-pregnancy Conditions



**11%** had depression



**7%** had high blood pressure



**3%** had diabetes

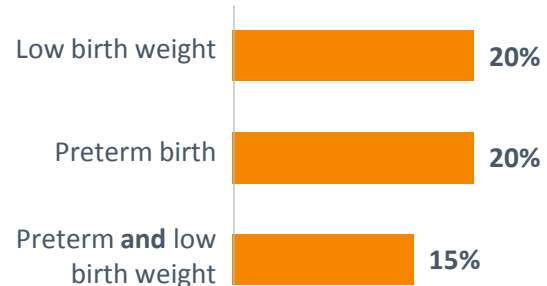
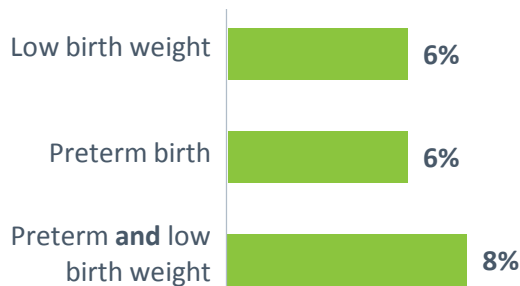
Previous adverse birth outcomes, such as preterm and low birth weight, can be risk factors for future adverse birth outcomes.

Of those mothers who had previously given birth, **64% had normal weight, full-term births**

**20% of mothers** who had previously given birth experienced some kind of **adverse birth outcome for that prior pregnancy.**

**Of those 20% of mothers** who previously had an adverse birth outcome, **55%** experienced some kind of **adverse birth outcome for this latest pregnancy.\*\***

*\*\*Calculated from birth certificate records*



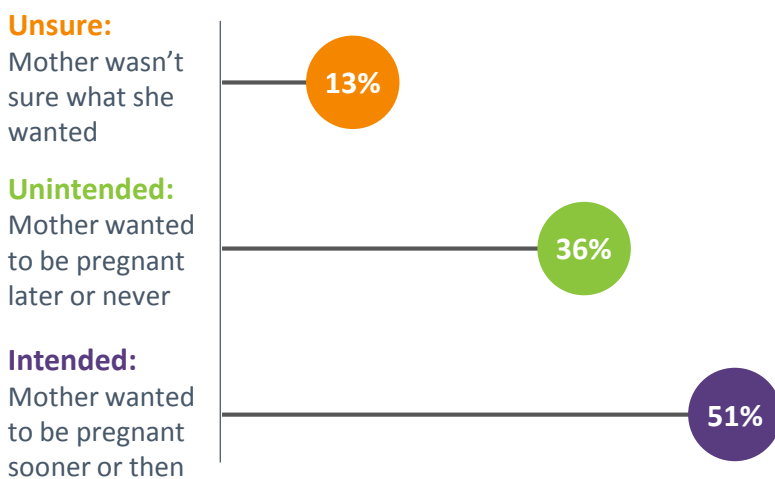
## Public Health Implications

Maternal and Child Health programs seeking to improve preconception health and birth outcomes may benefit from focusing on improving women's overall health and preventing chronic disease. Furthermore, because nearly half of pregnancies in Louisiana are unplanned (Louisiana PRAMS, 2015), health and wellness programming should not necessarily be guided by pregnancy intention.

## Family Planning: Prior to Pregnancy

49% of new mothers in Louisiana were unsure if they wanted to become pregnant or did not intend to become pregnant (Louisiana PRAMS, 2015). When compared to intended pregnancies, unintended pregnancies have been associated with behavioral and health outcomes such as late initiation of prenatal care, lower rates of breastfeeding, unsafe infant sleep practices, maternal postpartum depression, and low birth weight (Guttmacher Institute, 2016). 63% of women with unintended pregnancies were not using any contraception when they became pregnant (PRAMS, 2015). Providing contraception and counseling around family planning improves maternal and infant health outcomes by helping people space their births and achieve their desired family size.

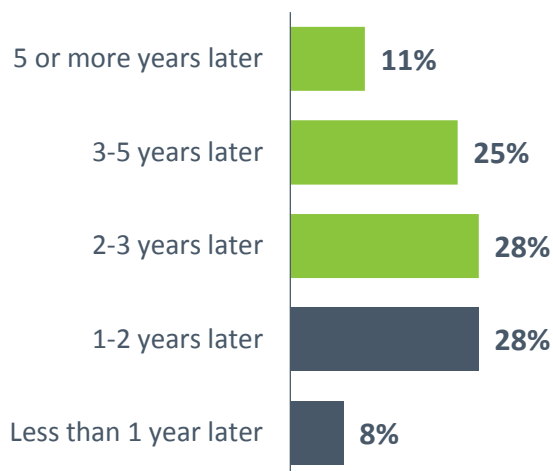
### About half of mothers intended to become pregnant



*"My pregnancy was totally unexpected. My fiancé and I had been trying to get pregnant for 3 years with no success. We decided to take a break; 3 months later I was pregnant. I did have problems in the past, that made me think that I couldn't get pregnant."*

- PRAMS Mom

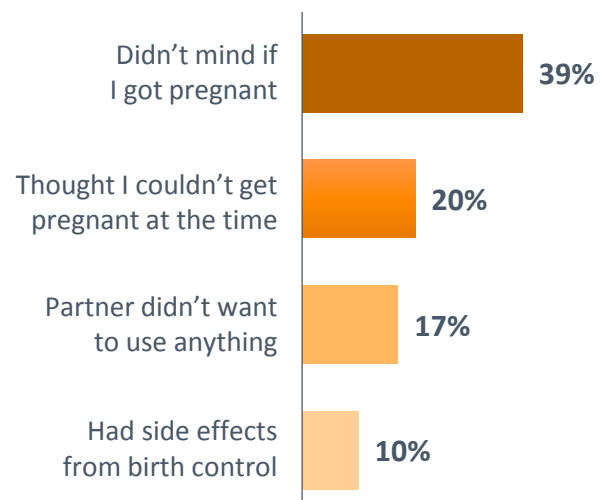
### Nearly two thirds of mothers reported wanting a pregnancy 2 or more years later\*



\*Among women who reported wanting to be pregnant later

### Mothers' top reasons\* for not using contraception

\*Participants checked all that apply



## Family Planning: Postpartum



**NATIONAL  
HEALTH  
GOALS**

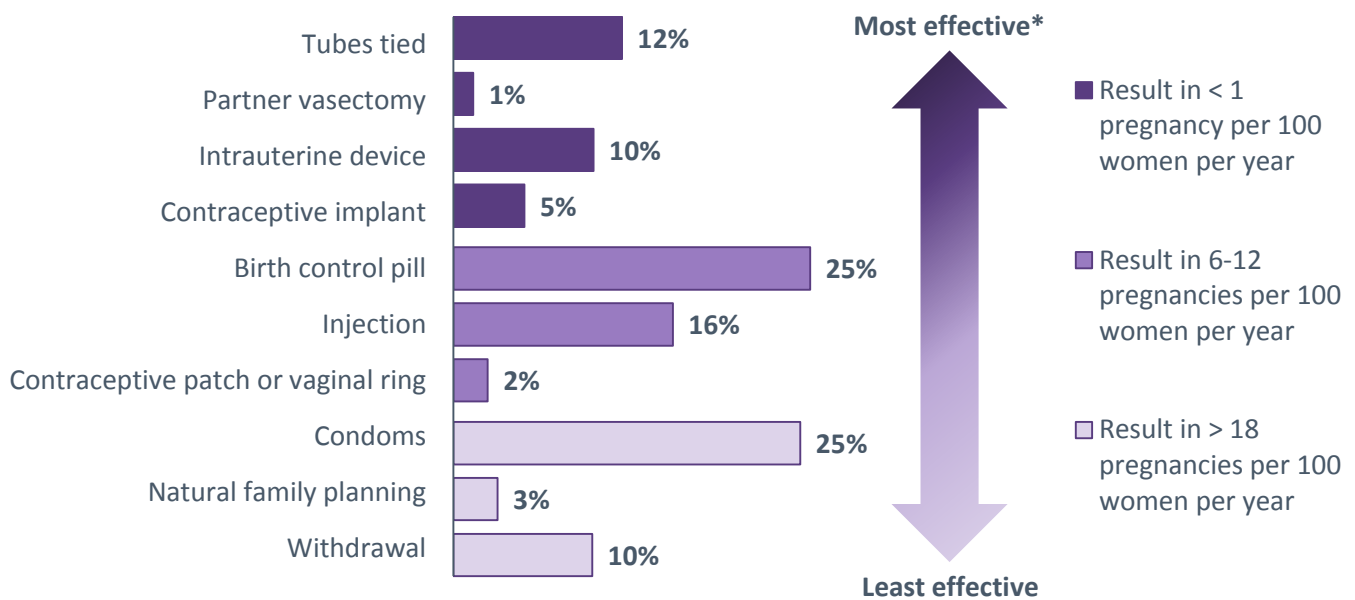
**Healthy People 2020 Goal:** Increase the proportion of women delivering a live birth who used contraception postpartum to plan their next pregnancy.

- Healthy People 2020 target: **97.5%**
- 2015 Louisiana status: **75.4%**



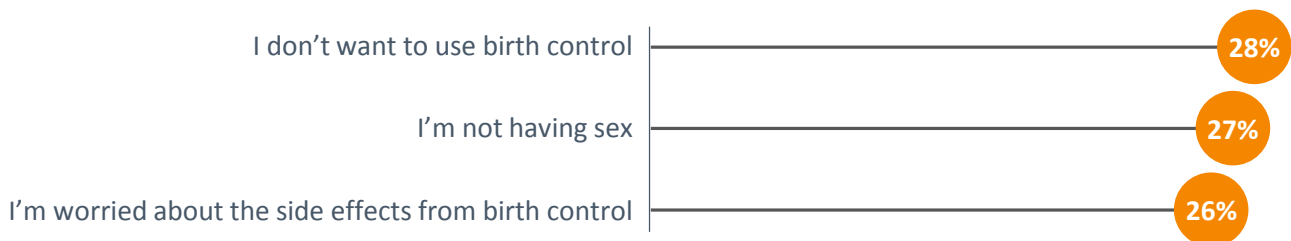
*3 out of 4 mothers used contraception*

Many mothers reported using the **least effective** contraception methods\* after they had their baby *(Participants checked all that apply)*



\*Data source: *Effectiveness of Family Planning Methods, CDC, 2011.*

Top three reasons reported for **not using contraception** after having the baby *(Participants checked all that apply)*



### Public Health Implications

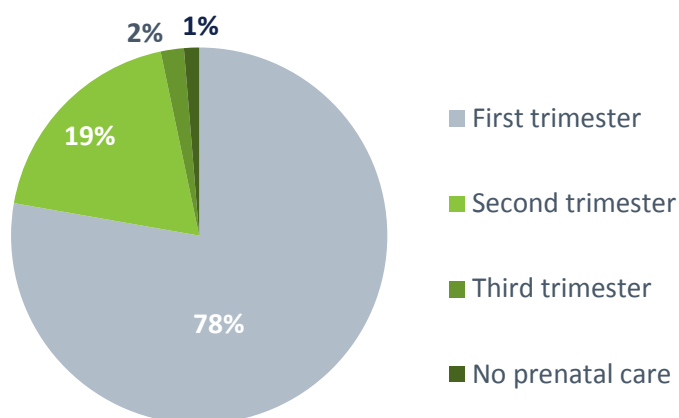
Louisiana PRAMS data highlight opportunities to address unintended pregnancies. When developing programs, educational materials and clinical guidelines, family planning and reproductive health programs may benefit from examining the most commonly cited barriers to contraception use. As mentioned on the previous page, two top barriers prior to pregnancy include women's belief that they could not get pregnant, as well as their partners' unwillingness to use contraception. This could potentially be addressed through health education, regular reproductive health care, and efforts to build better communication and contraception negotiation skills between women and their male partners.



## Prenatal Care

One of the Healthy People 2020 goals is to increase the proportion of pregnant women who receive early and adequate prenatal care beginning in the first trimester. Early, regular, and adequate prenatal care can lead to improved health outcomes for mothers and infants through the timely assessment of maternal risk behaviors, genetic risk factors, health education, and management of chronic and pregnancy-associated conditions.

About **1 in 5** Louisiana mothers **did not receive prenatal care** in the first trimester

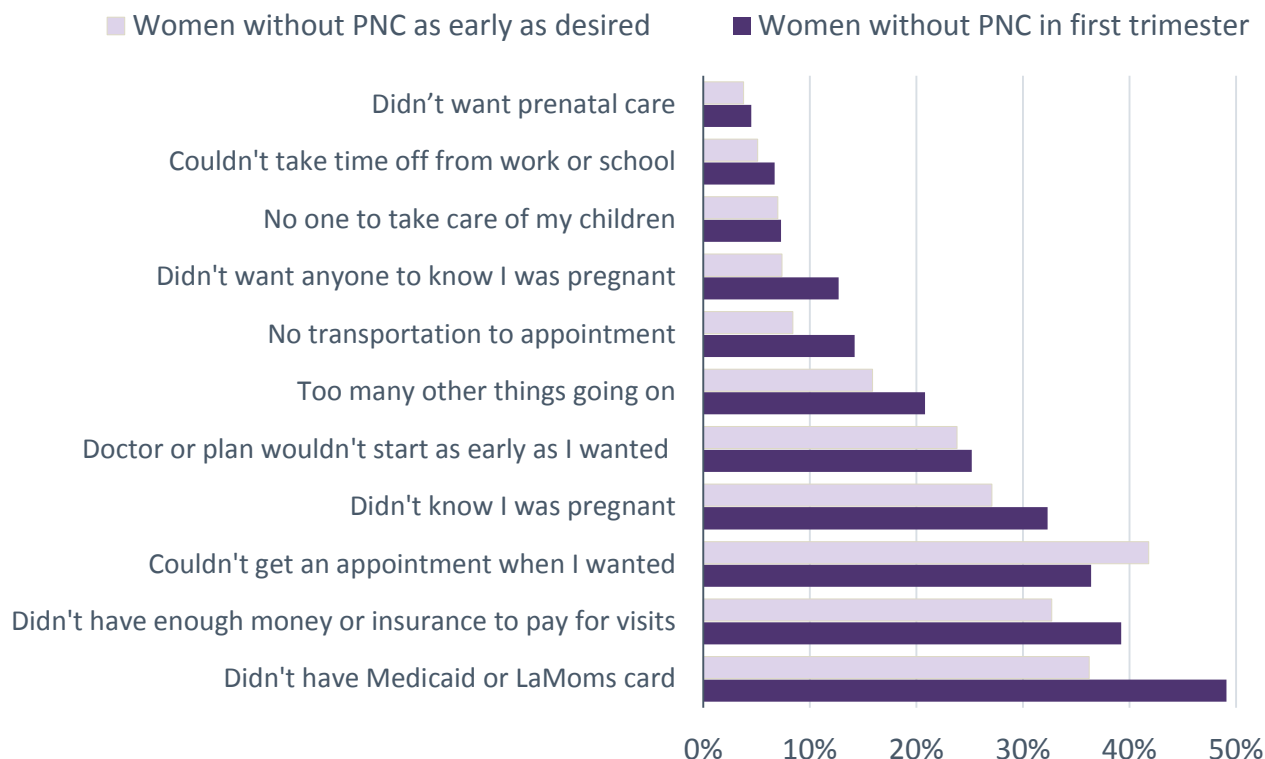


*"I had to wait 1 month and a week to get my 1st prenatal appointment."*

- PRAMS Mom

### All reported barriers to early prenatal care:

*Lack of insurance frequently prevented women from obtaining prenatal care (PNC) as early as desired*



## Prenatal Care – Part 2

About 1 in 4 women received **less than adequate\*** prenatal care

**Adequacy of Prenatal Care Utilization Index (Kotelchuck Index)** scores two elements:

- the timing of initial prenatal care visit
- the number of prenatal visits from initiation until delivery

The index defines adequate prenatal care as having received 80% or more of the recommended prenatal visits for gestational age based on standards set by the American Congress of Obstetricians and Gynecologists. It is important to note that this index does not measure quality of care.



\*Less than adequate prenatal care includes “inadequate” and “intermediate” responses.

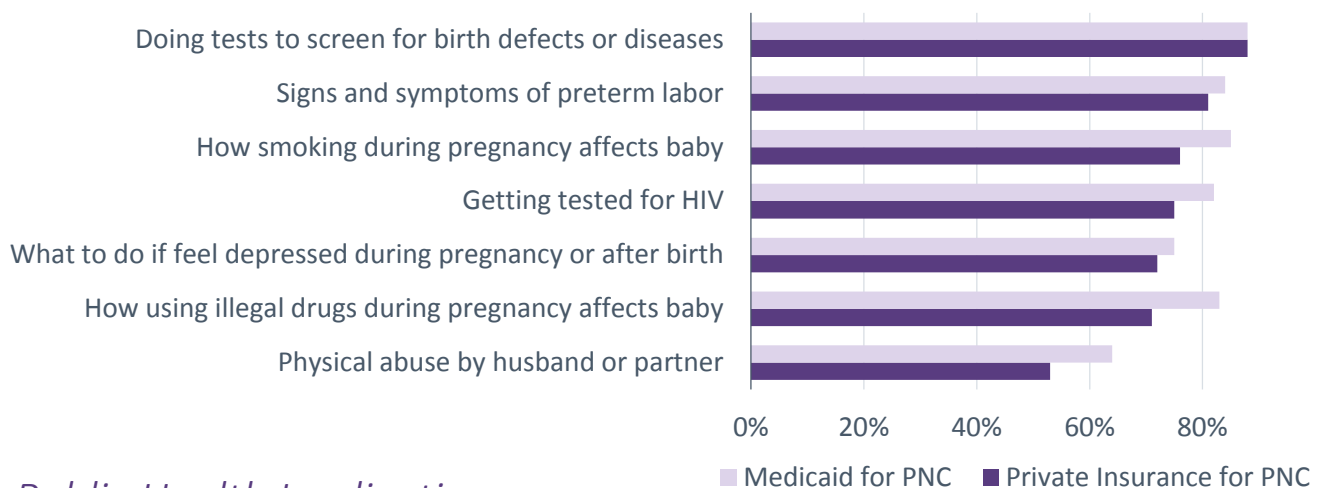
**5 out of 6 Mothers received an HIV Test during pregnancy**



*“I love information and I love being informed on anything I can do to make my pregnancy as safe and healthy as possible. But my doctor's office just wasn't understanding me. I actually had a nurse tell me to ‘google it yourself.’”*

- PRAMS Mom

Louisiana mothers with **Medicaid** reported discussing various topics with a doctor during prenatal care more frequently than mothers with other types of insurance



### Public Health Implications

Ensuring that all Louisiana women have access to early and regular prenatal care can help women have healthier pregnancies and better birth outcomes. Qualitative PRAMS responses indicate that pregnant women would like to receive more health advice directly from their physicians. Increased dialogue between patients and providers during prenatal care visits provides an opportunity to help ensure the health and safety of women and their babies during and after pregnancy.

## Prenatal Risk Factors: Risk Behaviors

A variety of factors can put a woman and her baby at risk for health complications during pregnancy. Prenatal risk factors vary from existing maternal health conditions to environmental exposures and risk behaviors such as using alcohol and/or tobacco during pregnancy.



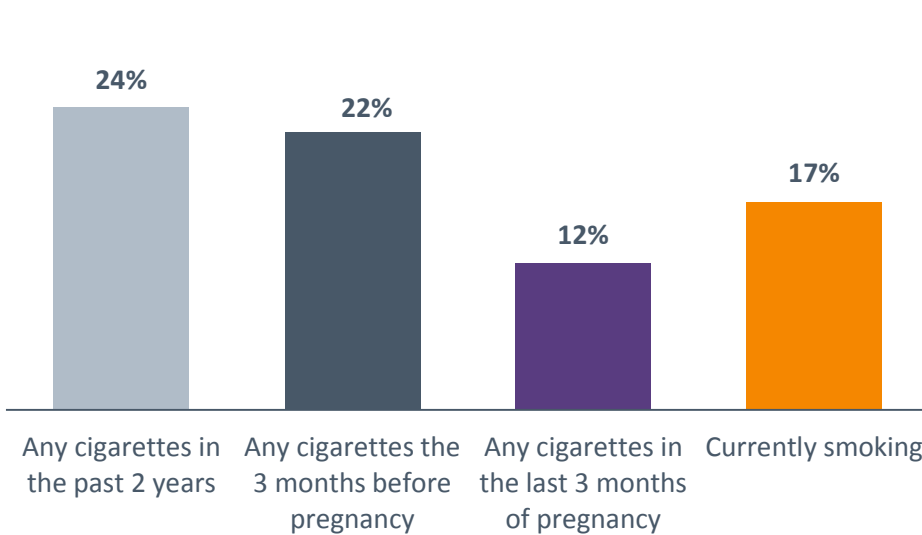
### NATIONAL HEALTH GOALS

**Healthy People 2020 Goal:** Increase abstinence from cigarette smoking among pregnant women:

- Healthy People 2020 target: 98.6%
- Current Louisiana status: 88.2%

About 1 in 10 women reported smoking during their last trimester

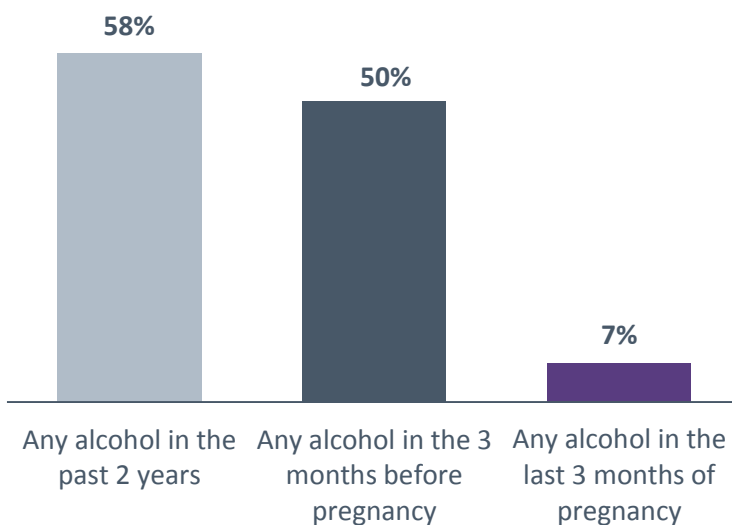
Nearly 1 in 5 women reported **smoking at the time of the survey**



*"It would have been nice to get help with not smoking cigarettes while I was pregnant."*

- PRAMS Mom

Fewer than 1 in 10 women reported drinking during their last trimester



**78%**

of mothers who report drinking during pregnancy said they consumed less than 1 drink per week



# Prenatal Risk Factors: Oral Health



## NATIONAL RECOMMENDATIONS

- The American Dental Association recommends that **all** pregnant women see a dentist or dental hygienist for a cleaning while pregnant.
- In Louisiana, **only 40%** of women visited a dentist or dental hygienist to have their teeth cleaned while pregnant.



**43% of women reported that a dental or health care worker talked with them** about how to care for their teeth and gums during their pregnancies.



According to the American Dental Association, **maternal oral hygiene during the perinatal period** helps to decrease oral bacteria transmitted to the infant which may have a **increase the risk cardiovascular disease, diabetes and other chronic conditions.** Discussions with providers can be a useful method of assessing a woman and infant's risk for these conditions.

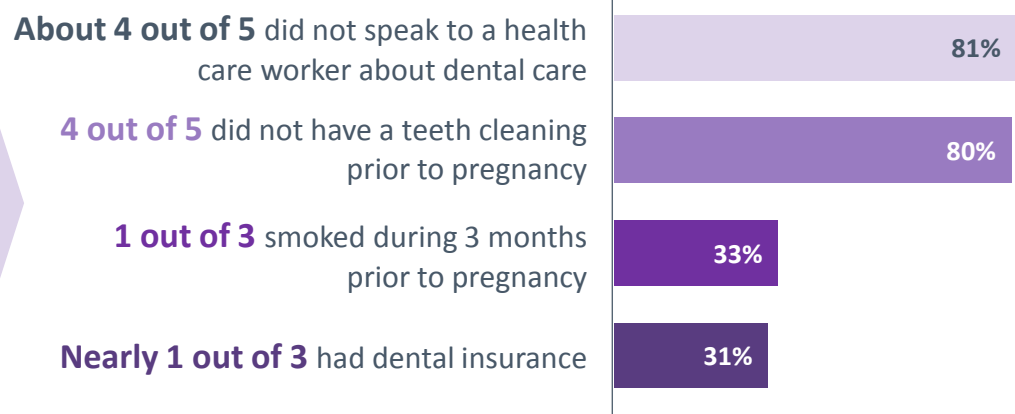
*"I wish Louisiana had a free dental program for mothers (as they had WIC). Although I had dental insurance with my private insurance, I had a high risk pregnancy and the co-pays were so expensive, I could not afford to see a dentist."*

- PRAMS Mom



Almost half (48%) of pregnant women who had a dental problem did not see a dentist

*Among those women who did not see a dentist:*



## Public Health Implications

Louisiana PRAMS data illustrate the severity and frequency of prenatal risk factors experienced by women in the state. Poor oral health can lead to various dental diseases and infections which can result in adverse birth outcomes (American Dental Association, 2016). Smoking while pregnant can cause gum disease to worsen more quickly than non-smokers and can increase the chance of miscarriage, premature birth or low birth weight (March of Dimes Foundation, 2016). The Bureau of Family Health will continue to investigate the intersection and compounding effects of prenatal risk factors on health in order to develop and support initiatives to improve the health of all women and families across the life course.





# Breastfeeding

Evidence consistently shows that breastfeeding has numerous health benefits for infants. Breastfeeding carries antibodies from the mother that help combat disease, lowering babies' risk of asthma or allergies, ear infections, respiratory illnesses, and bouts of diarrhea (American Academy of Pediatrics, 2014). Breastfeeding has also been found to have a protective effect against Sudden Infant Death Syndrome (SIDS) (American Academy of Pediatrics, 2016). The American Academy of Pediatrics recommends exclusive breastfeeding for the first six months of a baby's life.



## 66%

of mothers in Louisiana initiate breastfeeding

\*Below national average of 76%

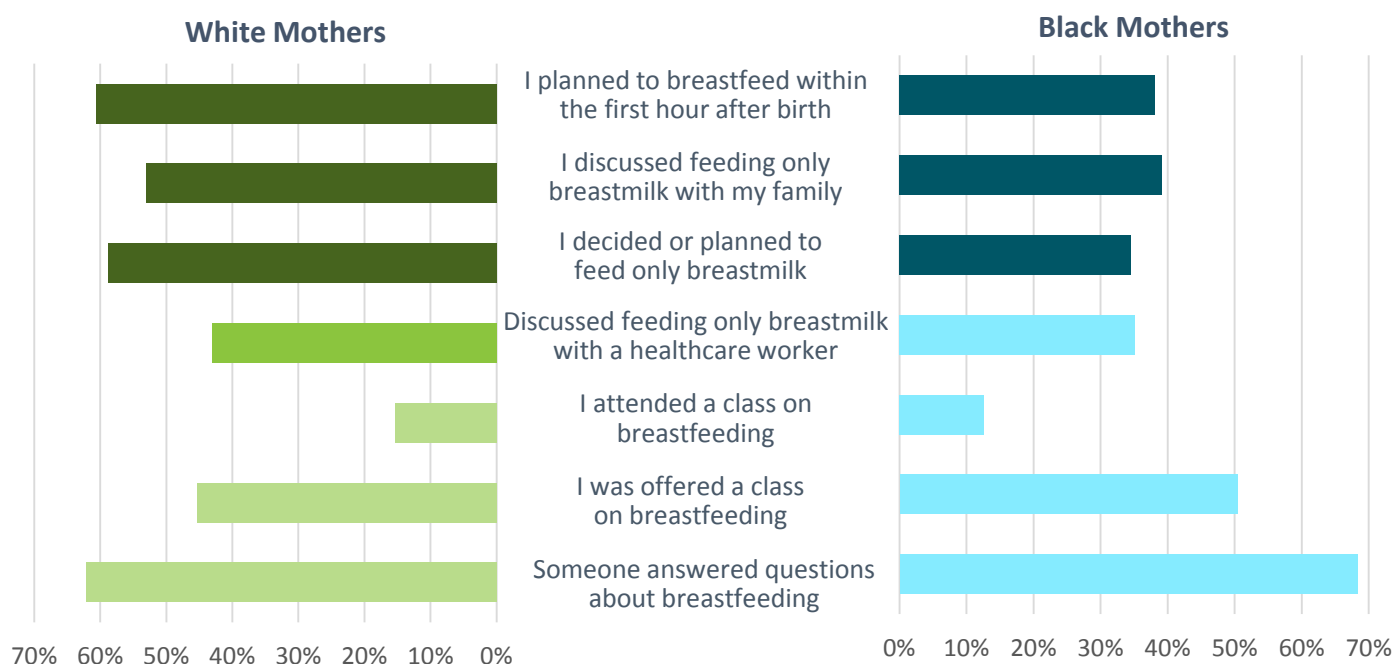
## Most commonly cited reasons for not breastfeeding

|   |     |
|---|-----|
| 1. I didn't want to                     | 48% |
| 2. I didn't like breastfeeding          | 14% |
| 3. I had other children to take care of | 13% |
| 4. I was sick or on medicine            | 13% |

## Most women who started breastfeeding continued for 8 weeks or more



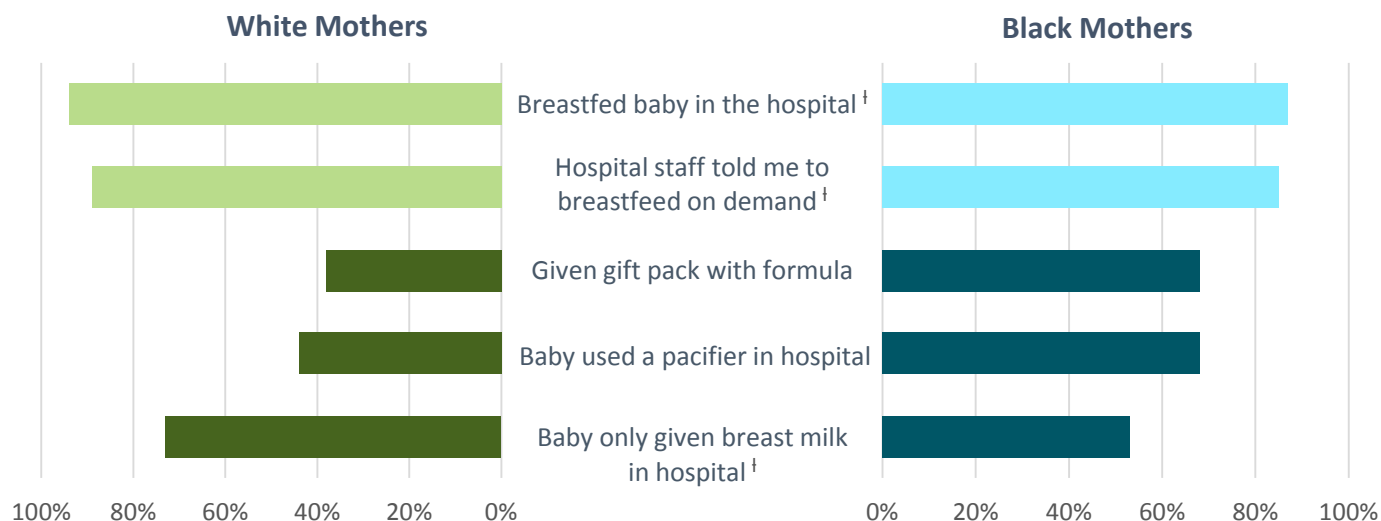
## Racial disparities\* in breastfeeding readiness & preparation activities prior to birth



\*Darker colors indicate a **difference of 10% or more** between groups. Data represent non-Hispanic populations.

## Breastfeeding - Part 2

### Black mothers have different\* hospital breastfeeding experiences than white mothers



\*Darker colors indicate a **difference of 10% or more** between groups † Denotes breastfeeding-friendly practice

### Racial disparities in breastfeeding: a closer look



**68% of black babies** used a pacifier in the hospital in comparison to **44% of white babies**.



**68% of black mothers** were given a gift pack with formula at the hospital in comparison to **38% of white mothers**.

*“Breastfeeding Communities/Groups would have made breastfeeding easier. I stopped breastfeeding after 5 weeks because the stress of returning to work so soon affected my milk supply ... if more time off was given to new moms, there may be more mothers who would breastfeed their babies for a longer period of time.”*

- PRAMS Mom

*“I consider breastfeeding to be the most important factor in infant health. In Louisiana it seems breastfeeding is generally unsupported. This issue is more social than anything.”*

- PRAMS Mom

### Public Health Implications

Louisiana’s breastfeeding initiation rate falls short of the Healthy People 2020 goal of 75%. Evidence shows that maternity care practices in the hospital can be a predictor of breastfeeding initiation (babyfriendlyusa.org). It is important to teach hospital staff that giving infants formula and pacifiers are practices that negatively impact a mother’s level of preparation for breastfeeding (see previous page), overall breastfeeding rates, and infants’ health (Baby Friendly Hospital Initiative, 2016). Increased lactation support throughout the postpartum period, promotion of breastfeeding-friendly work environments and expanded maternity leave policies are other important ways to support women in their efforts to start and continue breastfeeding.

# Infant Sleep Environment

In 2015, about 100 infants in Louisiana died suddenly and unexpectedly. At least 52% of these deaths were attributable to accidental suffocation or strangulation in the sleep environment (Louisiana Child Death Review, 2015). Deaths caused by Accidental Suffocation and Strangulation in Bed, SIDS (Sudden Infant Death Syndrome) or other unexplained causes are included in a category called SUID (Sudden Unexpected Infant Death).



**UNITED STATES  
vs. LOUISIANA**

- In 2015, the national SUID rate was **92.7** per 100,000 live births (National Child Death Review, 2015)
- In 2015, the SUID rate in Louisiana was **163.4** per 100,000 live births (Louisiana Child Death Review, 2015)



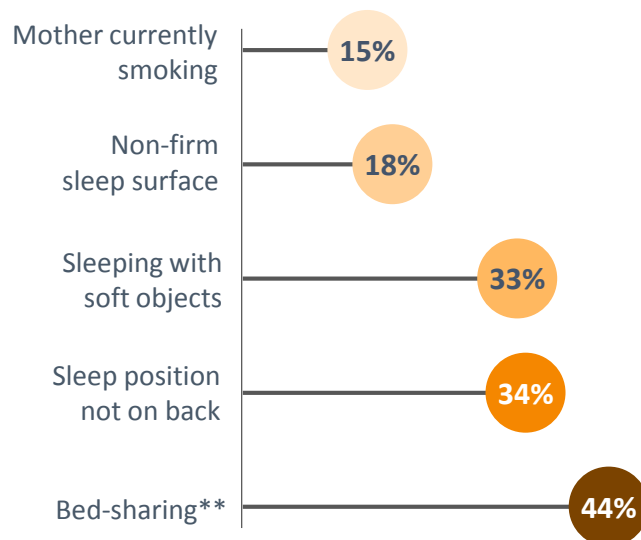
The American Academy of Pediatrics cites **bed-sharing** as the greatest risk factor for sleep-related infant deaths.

**44%**

About half of Louisiana mothers say they **sometimes, often or always bed-share**

## Safe Sleep Risk Factors\*

A **third of mothers** reported that their **babies did not sleep on their backs**

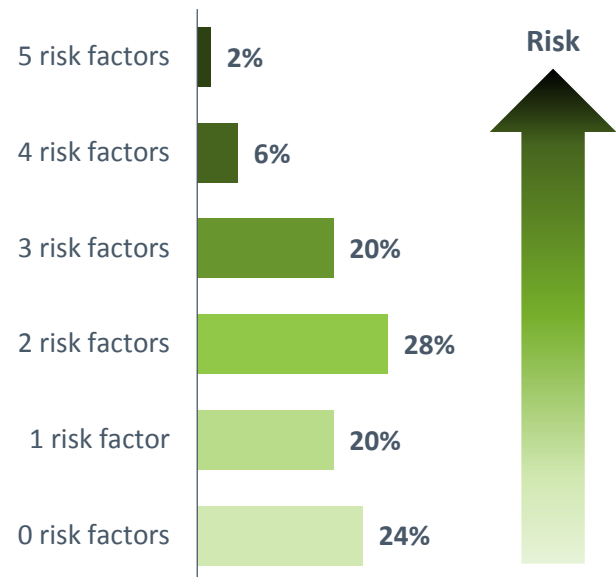


\*Mothers reported how infants most often sleep in the past two weeks.

\*\*Calculated by mothers' reports of infants sometimes, often or always bed-sharing.

## Infant Risk Exposure\*\*\*

**More than 1 in 4 babies** in Louisiana were **exposed to 3 or more risk factors for sleep-related death.**



\*\*\*Risk factors include: bed-sharing, stomach or side sleeping position, mother currently smoking, non-firm sleep surface and sleeping with soft objects.

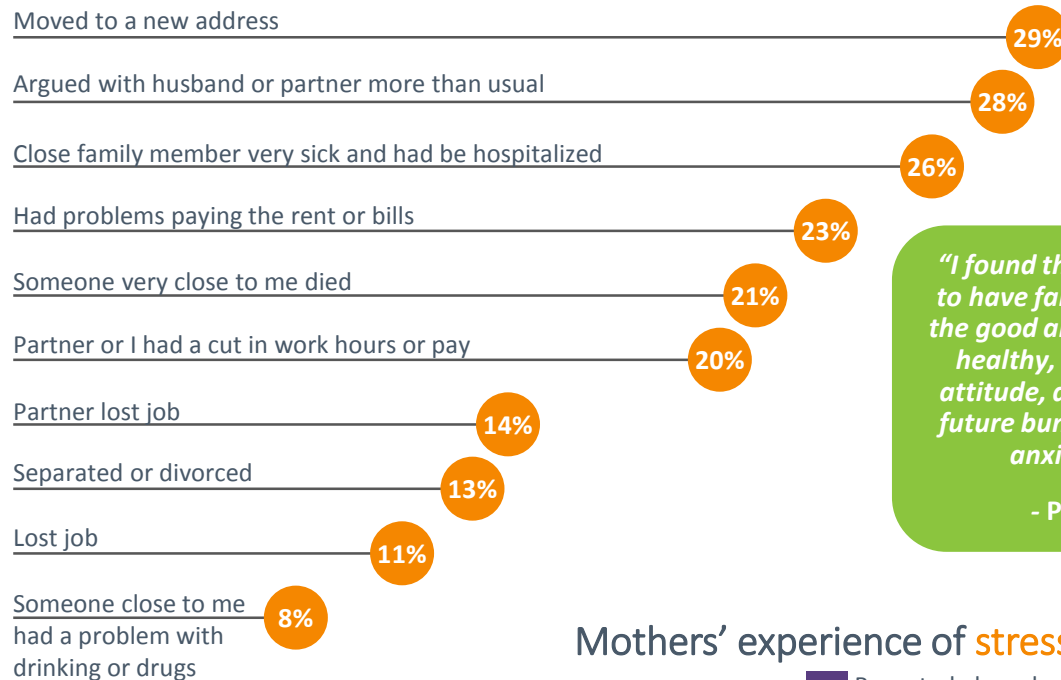
## Public Health Implications

PRAMS data brings to light which SUID risk and protective factors occur most frequently in Louisiana homes. These data can be used to inform and narrow the focus of infant safe sleep interventions. Further investigation into the barriers that prevent Louisiana families from consistently practicing safe sleep will help health care providers and public health professionals more effectively support Louisiana families in their efforts to increase protective factors and decrease risk factors for SUID.

## Maternal Stressors

Prenatal maternal stress can be caused by both chronic and acute events in a woman's life. These stressors are associated with negative outcomes in fetal and infant development. According to March of Dimes Foundation, high cortisol levels caused by stress during pregnancy can affect an infant's growth in the womb, as well as increase the infant's risk for cardiovascular disease and metabolic syndrome. 74% of Louisiana mothers report experiencing at least one stressor during the time of their pregnancy.

### Top 10 stressors reported by Louisiana mothers

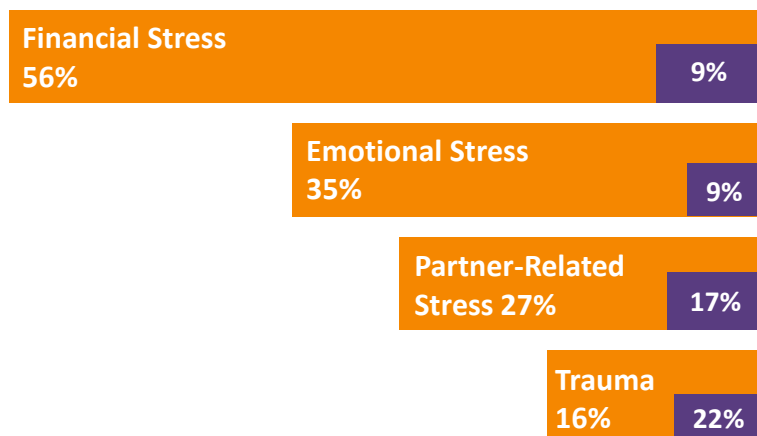


*"I found that it was a blessing to have family and friends for the good and bad times. Eating healthy, keeping a positive attitude, and thinking of your future bundle of joy help with anxiety or stress."*

- PRAMS Mom

### Mothers' experience of stressors and abuse\*

Reported abuse before or during pregnancy



\*Abuse is defined as mothers who report experiencing physical abuse from a husband/partner.

Many mothers experience **stress**. Some also experience **abuse**. The compounding effects of stress and abuse during pregnancy are recognized as putting both mother and infant at risk of poor health outcomes (March of Dimes, 2014).

The American Congress of Obstetrics and Gynecologists (ACOG) recommends that physicians: (1) screen all patients for intimate partner violence (2) encourage patients to manage stress in a healthy manner.

### Public Health Implications

Prenatal maternal stress is an important consideration when looking at overall health of both mothers and babies. According to ACOG, the experience of stress and/or abuse during pregnancy has a negative influence on birth outcomes. By understanding that emotional health can affect fetal development, physicians can expand the treatment and care they provide to address the stress and anxiety that can contribute to negative birth outcomes, and improve quality of life for women.

# Postpartum Depressive Symptoms

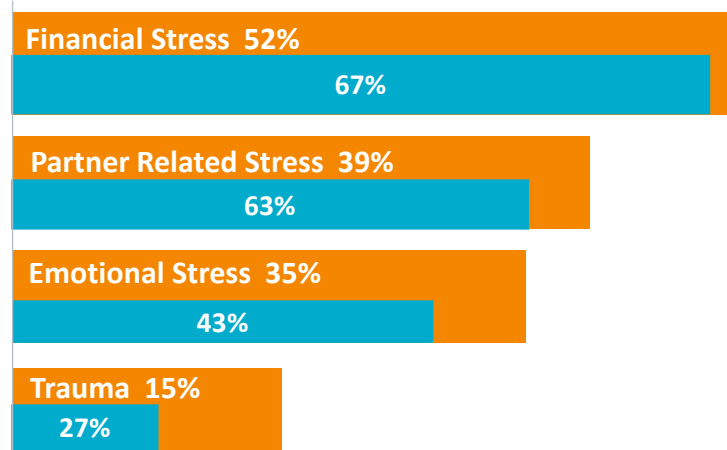
The Centers for Disease Control reports that approximately 1 in 9 women experience postpartum depressive symptoms (PPDS) in the United States. PPDS can lead to clinically diagnosed postpartum depression (PPD), which is associated with altered mother-infant interaction, reduced cognitive development in infants, and overall reduced duration of breastfeeding (Maternal Child Health Journal, 2015). Decreasing the proportion of women who experience postpartum depression is a Healthy People 2020 goal.

About 1 in 7 Louisiana mothers experience PPDS



## Mothers' experience of stressors and postpartum depressive symptoms

Reported PPDS

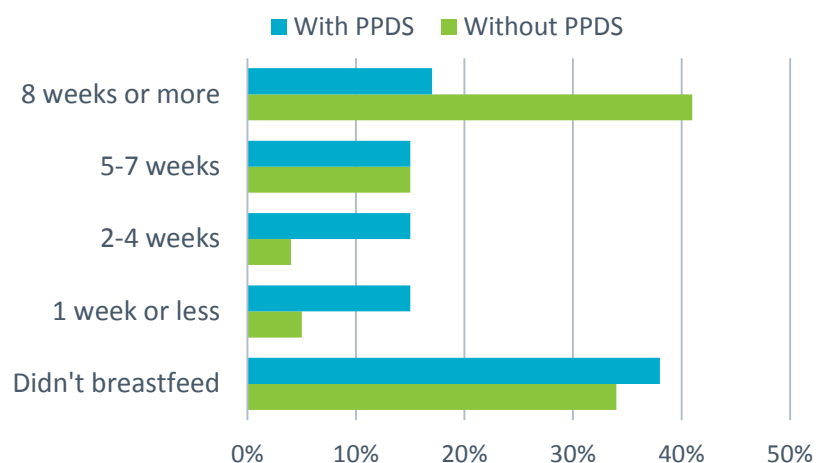


- 61% of women who experienced postpartum depression symptoms spoke with a healthcare worker about postpartum depression during a prenatal care appointment.
- 63% of all women spoke with a health care worker during or after their pregnancy about depression postpartum or "baby blues."

*"I'm a mother who is still coping with postpartum depression. I think women should be more educated about postpartum. It is a serious matter and a lot of women have it and don't realize it and often don't get treated."*

- PRAMS Mom

## Average breastfeeding duration was shorter for women with postpartum depressive symptoms



## Public Health Implications

PPDS and anxiety may affect rates of breastfeeding and may also reduce breastfeeding duration. Approximately 16% of Louisiana mothers report experiencing postpartum depressive symptoms. Of these women, 38% never breastfed. Increasing public health education and patient-provider dialogue about PPD/PPDS resources and decreasing stigma around PPD/PPDS are important steps needed to improve mothers' health in Louisiana.

# Maternity Leave

The United States is currently the only industrialized country without mandatory paid family leave, although some states have laws granting it. The Louisiana Fair Employment Practices (FEP) Act requires that employers with more than 25 employees provide unpaid leave for up to six weeks for “normal” pregnancies, and up to 4 months for more “seriously disabling” pregnancies. In accordance with the Family and Medical Leave Act (FMLA), a federal law, all FMLA-eligible employees in the United States are entitled to 12 work weeks of unpaid leave per year. During this time, employees are entitled to the same health benefits provided by their employer at the same cost they pay while working. When an employee’s FMLA leave ends, the employee has the right to return to the same or equivalent position.

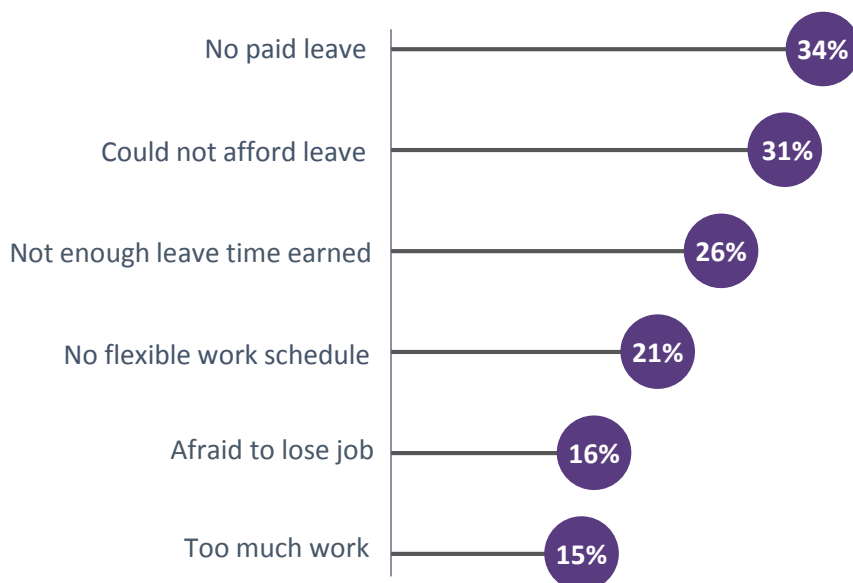
## About half of Louisiana mothers only took **unpaid** maternity leave



- **61% of Louisiana mothers worked** during their pregnancy.
- **70% of women who worked during their pregnancies had returned to work or planned to return to work** at the time they completed the survey.

## Lack of paid leave was the #1 factor affecting leave decisions

All factors affecting mothers' leave decision:

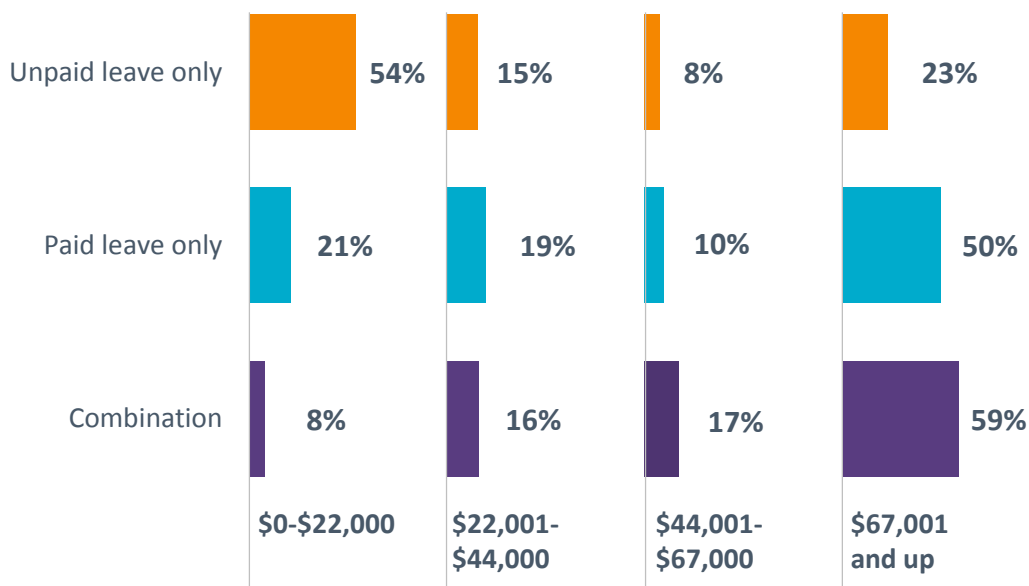


*“A push for longer paid leave would be amazing. I was allowed 6 weeks paid leave (which most women don't even get); however I chose to take an additional 2 weeks without pay. Those two weeks made [a] difference in my ability to return to work without feeling like a bad mom. I needed that bonding time as much as he needed me.”*

- PRAMS Mom

# Maternity Leave – Part 2

## Maternity leave and household income among women who worked prior to pregnancy



Among mothers who reported taking **only unpaid leave**, most reported an annual household income of **\$22,000 or less**.

Among mothers who reported taking a **combination of paid and unpaid leave**, most reported an annual household income of **\$67,001 and up**.

*“After having my first experience as a new mother - and working full time before and after pregnancy - it would be a great addition to my life experience to have had paid leave from my job! Also, I was only allowed 6 weeks of unpaid leave from my job - that is not enough time to have bonded with my baby before I had to leave him for 10 hours everyday - and I'm still expected to breastfeed & pump breastmilk. There were too many necessities that are part of the mother-baby bond within the first 6 months of a child's life. I feel this needs to be better acknowledged by our community, society as a whole and our government.”*

- PRAMS Mom

## Public Health Implications

PRAMS responses show that access to maternity leave is an important issue for mothers in Louisiana. Maternity leave is associated with a variety of individual and public health benefits which include prolonged gestation, fewer cesarean deliveries, and decreased infant mortality (March of Dimes Foundation, 2016). Maternity leave gives mothers and babies more time to bond, and longer maternity leave is associated with increased breastfeeding duration, improved child development, and better mental health outcomes for both mothers and babies (March of Dimes Foundation, 2016). Lack of paid maternity leave could perpetuate health inequities among lower income women who cannot afford unpaid time off, perpetuating health disparities among Louisiana mothers.



## *Appendices: Overview*

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The following appendices include a series of subgroup analyses for select indicators, a guide to key variables used and a summary of 2015 Louisiana PRAMS survey response rates. The key variables used for the subgroup analyses were maternal race, maternal age, maternal education, marital status, Medicaid insurance coverage and infant birth weight. The categories for these variables can be found in Appendix A.

The various subgroup analyses can be found in Appendix B and include the survey question from which the indicator is derived. Please refer to the footnotes for any additional information about interpretation of the findings. Included analyses are:

- Multivitamin use
- Previous pregnancy outcomes
- Pregnancy intention
- Preconception use of contraception by couples not trying to get pregnant
- Preconception diabetes diagnosis
- Timing of prenatal care
- Respondent awareness of the importance of oral health during pregnancy
- HIV testing during pregnancy or delivery
- Cigarette and alcohol use three months prior to pregnancy
- Physical abuse before and during pregnancy

Finally, the summary of annual response rates can be found in Appendix C. This page includes weighted and unweighted response rates for the strata used during 2015 as well as the total number of respondents and participants sampled by select maternal characteristics.

# Appendix A: Key Variables for Subgroup Analyses



| Variable                           | Categories   |
|------------------------------------|--|
| <b>Maternal Race</b>               | Non-Hispanic White   |
|                                    | Non-Hispanic Black   |
|                                    | Hispanic   |
|                                    | Non- Hispanic Other (including: American Indian, Japanese, Filipino, Hawaiian, other non-White, and other Asian) |
| <b>Maternal Age (in years)</b>     | Less than 20 years (<20)   |
|                                    | 20 years - 29 years  |
|                                    | 30 years and older (30+)   |
| <b>Maternal Education</b>          | Less than High School (<HS)  |
|                                    | High School Graduate (HS)  |
|                                    | More than High School (>HS)  |
| <b>Marital Status</b>              | Married  |
|                                    | Other (including: never married, living together, separated, widowed and divorced)                               |
| <b>Medicaid Insurance Coverage</b> | At Preconception   |
|                                    | For Prenatal Care  |
| <b>Infant Birth Weight</b>         | Low Birth Weight (LBW, < 2,500 grams)  |
|                                    | Normal Birth Weight (NBW)  |

## Appendix B: Subgroup Analyses

### Multivitamin use at least four times a week during the month prior to pregnancy\*, survey question 9

|                            | % Multivitamin | 95% CI     |
|----------------------------|----------------|------------|
| <b>Total</b>               | 33.2           | 30.1, 36.2 |
| <b>Race/Ethnicity</b>      |                |            |
| Non-Hispanic White         | 42.2           | 37.3, 47.2 |
| Non-Hispanic Black         | 22.2           | 18.7, 25.8 |
| Other                      | 35.9           | 18.5, 53.3 |
| Hispanic                   | 23.8           | 13.2, 34.5 |
| <b>Age</b>                 |                |            |
| <20                        | 20.6           | 11.0, 30.3 |
| 20-29                      | 28.3           | 24.5, 32.1 |
| 30+                        | 44.0           | 38.3, 49.7 |
| <b>Education</b>           |                |            |
| <HS                        | 18.5           | 12.6, 24.4 |
| HS                         | 22.9           | 18.1, 27.8 |
| >HS                        | 44.0           | 39.4, 48.6 |
| <b>Marital Status</b>      |                |            |
| Married                    | 47.2           | 42.3, 52.2 |
| Other                      | 19.5           | 16.1, 22.8 |
| <b>Insurance Status</b>    |                |            |
| Medicaid before pregnancy  | 22.3           | 17.2, 27.3 |
| Medicaid for prenatal care | 19.0           | 15.7, 22.4 |
| <b>Birth Weight</b>        |                |            |
| LBW                        | 26.2           | 22.8, 29.5 |
| NBW                        | 33.9           | 30.5, 37.3 |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 47.2% reported multivitamin use at least four times a week during the month prior to pregnancy.

### Outcomes of previous pregnancies (LBW/PTB)\*, survey questions 5-6

|                            | % Prior LBW | 95% CI      | % Prior PTB | 95% CI      |
|----------------------------|-------------|-------------|-------------|-------------|
| <b>Total</b>               | 6.18        | 4.4, 8.0    | 6.0         | 4.0, 8.0    |
| <b>Race/Ethnicity</b>      |             |             |             |             |
| Non-Hispanic White         | 2.9         | 0.8, 4.9    | 6.6         | 3.4, 9.8    |
| Non-Hispanic Black         | 10.2        | 7.0, 13.4   | 4.9         | 2.7, 7.1    |
| Other                      | 11.1        | 0.0, 26.1** | 0.5         | 0.0, 1.6**  |
| Hispanic                   | 5.1         | 0.0, 11.8** | 9.6         | 0.0, 19.4** |
| <b>Age</b>                 |             |             |             |             |
| <20                        | 6.5         | 0.0, 17.6** | 1.4         | 0.0, 4.3**  |
| 20-29                      | 7.9         | 5.3, 10.5   | 5.6         | 3.1, 8.2    |
| 30+                        | 3.7         | 1.5, 6.0    | 6.8         | 3.5, 10.0   |
| <b>Education</b>           |             |             |             |             |
| <HS                        | 9.4         | 4.3, 14.4   | 4.3         | 1.0, 7.6    |
| HS                         | 10.0        | 6.0, 14.1   | 5.6         | 2.3, 8.9    |
| >HS                        | 2.6         | 1.0, 4.2    | 6.9         | 3.8, 10.1   |
| <b>Marital Status</b>      |             |             |             |             |
| Married                    | 3.1         | 1.2, 5.0    | 7.2         | 4.0, 10.4   |
| Other                      | 9.5         | 6.4, 12.6   | 4.6         | 2.4, 6.8    |
| <b>Insurance Status</b>    |             |             |             |             |
| Medicaid before pregnancy  | 10.1        | 6.1, 14.2   | 4.8         | 2.1, 7.4    |
| Medicaid for prenatal care | 8.5         | 5.7, 11.3   | 4.8         | 2.6, 7.0    |
| <b>Birth Weight</b>        |             |             |             |             |
| LBW                        | 12.0        | 8.6, 15.5   | 9.0         | 6.0, 12.0   |
| NBW                        | 5.6         | 3.7, 7.5    | 5.7         | 3.6, 7.8    |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 3.1% reported a prior LBW and 7.2% reported a prior PTB.

\*\* Confidence interval indicates weak association; interpret with caution.

### Pregnancy intention\*, survey questions 14-15

|                            | % Unintended | 95% CI     | % Trying | 95% CI     |
|----------------------------|--------------|------------|----------|------------|
| <b>Total</b>               | 48.9         | 45.8, 52.0 | 51.1     | 48.0, 54.2 |
| <b>Race/Ethnicity</b>      |              |            |          |            |
| Non-Hispanic White         | 43.3         | 36.9, 49.7 | 56.7     | 50.3, 63.1 |
| Non-Hispanic Black         | 68.3         | 63.2, 73.4 | 31.7     | 26.6, 36.8 |
| Other                      | 42.1         | 18.9, 65.3 | 57.9     | 34.7, 81.1 |
| Hispanic                   | 39.8         | 24.8, 54.9 | 60.2     | 45.1, 75.2 |
| <b>Age</b>                 |              |            |          |            |
| <20                        | 53.9         | 24.3, 83.6 | 46.1     | 16.4, 75.7 |
| 20-29                      | 58.2         | 53.0, 63.4 | 41.8     | 36.6, 47.0 |
| 30+                        | 43.9         | 37.4, 50.4 | 56.1     | 49.6, 62.6 |
| <b>Education</b>           |              |            |          |            |
| <HS                        | 61.1         | 51.8, 70.3 | 38.9     | 29.7, 48.2 |
| HS                         | 59.3         | 52.3, 66.2 | 40.7     | 33.8, 47.7 |
| >HS                        | 44.7         | 38.9, 50.5 | 55.3     | 49.5, 61.1 |
| <b>Marital Status</b>      |              |            |          |            |
| Married                    | 37.4         | 31.6, 43.2 | 62.6     | 56.8, 68.4 |
| Other                      | 68.2         | 63.0, 73.5 | 31.8     | 26.5, 37.0 |
| <b>Insurance Status</b>    |              |            |          |            |
| Medicaid before pregnancy  | 65.8         | 58.8, 72.8 | 34.2     | 27.2, 41.2 |
| Medicaid for prenatal care | 63.2         | 58.0, 68.4 | 36.8     | 31.6, 42.0 |
| <b>Birth Weight</b>        |              |            |          |            |
| LBW                        | 62.2         | 57.2, 67.2 | 37.8     | 32.8, 42.8 |
| NBW                        | 51.4         | 47.0, 55.8 | 48.6     | 44.2, 53.0 |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 37.4% reported an unintended pregnancy while 62.6% reported trying to get pregnant.

Preconception contraception use by couples not trying to get pregnant\*, survey question 16

|                            | % Using Contraception at<br>Time of Conception | 95% CI     |
|----------------------------|--|------------|
| <b>Total</b>               | 37.0   | 31.5, 42.4 |
| <b>Race/Ethnicity</b>      |  |            |
| Non-Hispanic White         | 30.1   | 20.8, 39.3 |
| Non-Hispanic Black         | 40.1   | 33.3, 46.9 |
| Other                      | 51.2   | 9.3, 92.8  |
| Hispanic                   | 49.1   | 23.9, 74.2 |
| <b>Age</b>                 |  |            |
| <20                        | 18.1   | 8.9, 27.4  |
| 20-29                      | 38.4   | 31.6, 45.1 |
| 30+                        | 35.5   | 25.5, 45.6 |
| <b>Education</b>           |  |            |
| <HS                        | 41.3   | 29.6, 53.1 |
| HS                         | 34.5   | 25.7, 43.3 |
| >HS                        | 37.1   | 28.3, 46.0 |
| <b>Marital Status</b>      |  |            |
| Married                    | 34.8   | 25.1, 44.5 |
| Other                      | 38.3   | 31.6, 44.9 |
| <b>Insurance Status</b>    |  |            |
| Medicaid before pregnancy  | 37.8   | 29.4, 46.2 |
| Medicaid for prenatal care | 38.9   | 32.3, 45.5 |
| <b>Birth Weight</b>        |  |            |
| LBW                        | 44.7   | 37.8, 51.6 |
| NBW                        | 36.0   | 29.9, 42.1 |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 34.8% reported using contraception at the time of conception.

### Preconception diabetes diagnosis\*, survey question 12

|                            | % Diagnosed with diabetes | 95% CI      |
|----------------------------|---------------------------|-------------|
| <b>Total</b>               | 3.2                       | 2.2, 4.3    |
| <b>Race/Ethnicity</b>      |                           |             |
| Non-Hispanic White         | 2.0                       | 0.7, 3.3    |
| Non-Hispanic Black         | 5.2                       | 3.2, 7.1    |
| Other                      | 6.9                       | 0.0, 16.3** |
| Hispanic                   | 0.3                       | 0.0, 0.7**  |
| <b>Age</b>                 |                           |             |
| <20                        | 0.7                       | 0.0, 1.5**  |
| 20-29                      | 3.1                       | 1.7, 4.5    |
| 30+                        | 4.0                       | 2.1, 5.9    |
| <b>Education</b>           |                           |             |
| <HS                        | 3.2                       | 1.0, 5.4    |
| HS                         | 4.7                       | 2.2, 7.2    |
| >HS                        | 2.4                       | 1.1, 3.7    |
| <b>Marital Status</b>      |                           |             |
| Married                    | 2.3                       | 1.0, 3.6    |
| Other                      | 4.2                       | 2.5, 5.8    |
| <b>Insurance Status</b>    |                           |             |
| Medicaid before pregnancy  | 3.6                       | 1.6, 5.6    |
| Medicaid for prenatal care | 3.1                       | 1.6, 4.5    |
| <b>Birth Weight</b>        |                           |             |
| LBW                        | 4.8                       | 3.1, 6.5    |
| NBW                        | 3.1                       | 1.9, 4.2    |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 2.3% reported being diagnosed with diabetes before pregnancy.

\*\* Confidence interval indicates weak association; interpret with caution.



**Prenatal care began during first trimester\*, survey question 19**

|                            | <b>% Prenatal Care in First Trimester</b> | <b>95% CI</b> |
|----------------------------|---|---------------|
| <b>Total</b>               | 77.4                                      | 74.8, 80.0    |
| <b>Race/Ethnicity</b>      |   |               |
| Non-Hispanic White         | 83.7                                      | 80.0, 87.4    |
| Non-Hispanic Black         | 68.8                                      | 64.8, 72.8    |
| Other                      | 85.0                                      | 72.2, 97.7    |
| Hispanic                   | 72.4                                      | 61.1, 83.7    |
| <b>Age</b>                 |   |               |
| <20                        | 47.2                                      | 35.5, 58.8    |
| 20-29                      | 76.4                                      | 72.9, 79.8    |
| 30+                        | 85.5                                      | 81.6, 89.4    |
| <b>Education</b>           |   |               |
| <HS                        | 61.9                                      | 54.5, 69.3    |
| HS                         | 72.8                                      | 67.8, 77.8    |
| >HS                        | 85.4                                      | 82.3, 88.4    |
| <b>Marital Status</b>      |   |               |
| Married                    | 89.5                                      | 86.4, 92.5    |
| Other                      | 65.6                                      | 61.5, 69.6    |
| <b>Insurance Status</b>    |   |               |
| Medicaid before pregnancy  | 68.5                                      | 62.7, 74.2    |
| Medicaid for prenatal care | 68.1                                      | 64.1, 72.1    |
| <b>Birth Weight</b>        |   |               |
| LBW                        | 76.8                                      | 73.5, 80.2    |
| NBW                        | 77.5                                      | 74.6, 80.4    |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 89.5% reported receiving prenatal care in the first trimester.

**Received prenatal care as early as wanted in pregnancy\*, survey question 20**

|                            | <b>% Yes</b> | <b>95% CI</b> |
|----------------------------|--------------|---------------|
| <b>Total</b>               | 82.9         | 80.5, 85.3    |
| <b>Race/Ethnicity</b>      |              |               |
| Non-Hispanic White         | 85.1         | 81.6, 88.7    |
| Non-Hispanic Black         | 81.2         | 77.8, 84.5    |
| Other                      | 74.3         | 58.6, 89.9    |
| Hispanic                   | 80.8         | 70.6, 91.1    |
| <b>Age</b>                 |              |               |
| <20                        | 73.1         | 62.8, 83.5    |
| 20-29                      | 82.9         | 79.8, 86.0    |
| 30+                        | 84.9         | 80.8, 89.0    |
| <b>Education</b>           |              |               |
| <HS                        | 79.2         | 73.0, 85.4    |
| HS                         | 81.8         | 77.4, 86.2    |
| >HS                        | 84.9         | 81.6, 88.2    |
| <b>Marital Status</b>      |              |               |
| Married                    | 85.2         | 81.6, 88.7    |
| Other                      | 80.7         | 77.3, 84.0    |
| <b>Insurance Status</b>    |              |               |
| Medicaid before pregnancy  | 80.6         | 75.9, 85.4    |
| Medicaid for prenatal care | 79.0         | 75.5, 82.5    |
| <b>Birth Weight</b>        |              |               |
| LBW                        | 83.9         | 81.0, 86.8    |
| NBW                        | 82.8         | 80.1, 85.5    |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 85.2% reported receiving prenatal care as early as she wanted.

**Knew it was important to care for teeth and gums during pregnancy\*, survey question 30a**

|                            | <b>% Yes</b> | <b>95% CI</b> |
|----------------------------|--------------|---------------|
| <b>Total</b>               | 88.6         | 86.6, 90.6    |
| <b>Race/Ethnicity</b>      |              |               |
| Non-Hispanic White         | 91.8         | 89.1, 94.5    |
| Non-Hispanic Black         | 85.4         | 82.3, 88.5    |
| Other                      | 80.7         | 66.5, 94.8    |
| Hispanic                   | 86.9         | 78.3, 95.6    |
| <b>Age</b>                 |              |               |
| <20                        | 87.7         | 80.3, 95.1    |
| 20-29                      | 87.2         | 84.5, 89.9    |
| 30+                        | 91.1         | 88.0, 94.3    |
| <b>Education</b>           |              |               |
| <HS                        | 83.3         | 77.8, 88.9    |
| HS                         | 87.3         | 83.6, 91.0    |
| >HS                        | 91.0         | 88.4, 93.6    |
| <b>Marital Status</b>      |              |               |
| Married                    | 92.8         | 90.2, 95.3    |
| Other                      | 84.5         | 81.4, 87.5    |
| <b>Insurance Status</b>    |              |               |
| Medicaid before pregnancy  | 83.3         | 78.9, 87.8    |
| Medicaid for prenatal care | 85.0         | 82.0, 88.0    |
| <b>Birth Weight</b>        |              |               |
| LBW                        | 86.9         | 84.3, 89.5    |
| NBW                        | 88.8         | 86.6, 91.0    |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 92.8% reported knowing it was important to care for teeth and gums during their pregnancy.

Received a HIV test during pregnancy or delivery\*, survey question 26

|                            | % HIV Test | 95% CI     |
|----------------------------|------------|------------|
| <b>Total</b>               | 82.1       | 79.4, 84.9 |
| <b>Race/Ethnicity</b>      |            |            |
| Non-Hispanic White         | 76.1       | 71.3, 80.9 |
| Non-Hispanic Black         | 91.3       | 88.8, 93.8 |
| Other                      | 65.5       | 47.7, 83.3 |
| Hispanic                   | 81.5       | 70.3, 92.7 |
| <b>Age</b>                 |            |            |
| <20                        | 85.1       | 75.4, 94.8 |
| 20-29                      | 83.4       | 78.9, 86.0 |
| 30+                        | 79.7       | 74.7, 84.7 |
| <b>Education</b>           |            |            |
| <HS                        | 87.5       | 82.2, 92.8 |
| HS                         | 85.8       | 81.3, 90.3 |
| >HS                        | 78.3       | 74.1, 82.5 |
| <b>Marital Status</b>      |            |            |
| Married                    | 76.3       | 71.6, 81.0 |
| Other                      | 87.4       | 84.3, 90.5 |
| <b>Insurance Status</b>    |            |            |
| Medicaid before pregnancy  | 85.7       | 80.9, 90.4 |
| Medicaid for prenatal care | 87.9       | 84.8, 90.9 |
| <b>Birth Weight</b>        |            |            |
| LBW                        | 85.4       | 82.6, 88.3 |
| NBW                        | 81.7       | 78.7, 84.8 |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 76.3% reported receiving a HIV test during pregnancy or delivery.

**Cigarette and alcohol use three months prior to pregnancy\*, survey questions 38 & 43**

|                            | <b>% Smoked<br/>Cigarettes</b> | <b>95% CI</b> | <b>% Drank<br/>Alcohol</b> | <b>95% CI</b> |
|----------------------------|--------------------------------|---------------|----------------------------|---------------|
| <b>Total</b>               | 22.1                           | 19.4, 24.9    | 50.4                       | 47.2, 53.6    |
| <b>Race/Ethnicity</b>      |                                |               |                            |               |
| Non-Hispanic White         | 28.9                           | 24.4, 33.3    | 61.9                       | 57.1, 66.8    |
| Non-Hispanic Black         | 15.7                           | 12.5, 19.0    | 36.6                       | 32.5, 40.7    |
| Other                      | 16.4                           | 3.4, 29.5     | 48.4                       | 30.1, 66.8    |
| Hispanic                   | 12.2                           | 3.8, 20.6     | 41.6                       | 29.1, 54.1    |
| <b>Age</b>                 |                                |               |                            |               |
| <20                        | 13.0                           | 4.9, 21.1     | 17.0                       | 8.4, 25.5     |
| 20-29                      | 22.8                           | 19.3, 26.3    | 51.4                       | 47.4, 55.4    |
| 30+                        | 22.8                           | 18.0, 27.6    | 55.4                       | 49.8, 61.0    |
| <b>Education</b>           |                                |               |                            |               |
| <HS                        | 30.9                           | 24.1, 37.8    | 25.8                       | 19.3, 32.3    |
| HS                         | 26.1                           | 21.1, 31.2    | 43.1                       | 37.4, 48.8    |
| >HS                        | 17.0                           | 13.5, 20.5    | 63.2                       | 58.9, 67.5    |
| <b>Marital Status</b>      |                                |               |                            |               |
| Married                    | 16.9                           | 13.2, 20.6    | 60.8                       | 56.0, 65.6    |
| Other                      | 27.3                           | 23.5, 31.1    | 40.2                       | 36.1, 44.3    |
| <b>Insurance Status</b>    |                                |               |                            |               |
| Medicaid before pregnancy  | 28.2                           | 22.8, 33.7    | 33.6                       | 27.9, 39.4    |
| Medicaid for prenatal care | 27.8                           | 23.9, 31.6    | 36.5                       | 32.4, 40.6    |
| <b>Birth Weight</b>        |                                |               |                            |               |
| LBW                        | 25.7                           | 22.4, 28.9    | 43.3                       | 39.4, 47.1    |
| NBW                        | 21.8                           | 18.8, 24.8    | 51.1                       | 47.7, 54.6    |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 16.9% reported smoking cigarettes and 60.8% reported drinking three months prior to pregnancy.

**Abused in 12 months before pregnancy, during most recent pregnancy\*, survey questions 47-48**

|                            | <b>% Abused<br/>Before</b> | <b>95% CI</b> | <b>% Abused<br/>During</b> | <b>95% CI</b> |
|----------------------------|----------------------------|---------------|----------------------------|---------------|
| <b>Total</b>               | 3.3                        | 2.2, 4.5      | 2.6                        | 1.6, 3.6      |
| <b>Race/Ethnicity</b>      |                            |               |                            |               |
| Non-Hispanic White         | 3.6                        | 1.6, 5.1      | 2.3                        | 0.8, 3.8      |
| Non-Hispanic Black         | 3.2                        | 1.7, 4.8      | 2.6                        | 1.3, 3.8      |
| Other                      | 3.3                        | 0.0, 9.9**    | 3.6                        | 0.0, 10.2**   |
| Hispanic                   | 3.5                        | 0.0, 8.1**    | 3.5                        | 0.0, 8.1**    |
| <b>Age</b>                 |                            |               |                            |               |
| <20                        | 1.1                        | 0.1, 2.1      | 2.9                        | 0.0, 7.0**    |
| 20-29                      | 3.4                        | 1.9, 4.9      | 2.2                        | 1.0, 3.4      |
| 30+                        | 3.6                        | 1.4, 5.7      | 3.1                        | 1.1, 5.1      |
| <b>Education</b>           |                            |               |                            |               |
| <HS                        | 5.0                        | 1.8, 8.3      | 2.5                        | 0.5, 4.6      |
| HS                         | 4.2                        | 1.9, 6.6      | 3.2                        | 1.1, 5.2      |
| >HS                        | 2.4                        | 0.9, 3.6      | 2.2                        | 0.9, 3.6      |
| <b>Marital Status</b>      |                            |               |                            |               |
| Married                    | 2.4                        | 1.0, 3.8      | 1.4                        | 0.3, 2.5      |
| Other                      | 4.2                        | 2.4, 6.0      | 3.7                        | 2.0, 5.3      |
| <b>Insurance Status</b>    |                            |               |                            |               |
| Medicaid before pregnancy  | 7.1                        | 3.7, 10.4     | 4.8                        | 2.2, 7.5      |
| Medicaid for prenatal care | 4.4                        | 2.6, 6.3      | 3.6                        | 2.0, 5.2      |
| <b>Birth Weight</b>        |                            |               |                            |               |
| LBW                        | 4.2                        | 2.6, 5.8      | 3.6                        | 2.1, 5.0      |
| NBW                        | 3.2                        | 2.0, 4.5      | 2.4                        | 1.4, 3.5      |

\* Denominator is the total sub-analysis group. For example: Among married respondents, 2.4% reported abuse 12 months before pregnancy and 1.4% reported abuse during their pregnancy.

\*\* Confidence interval indicates weak association; interpret with caution.

## Appendix C: Response Rates

| Stratum                               | % Responding<br>(Unweighted) | % Responding<br>(Weighted) |
|---------------------------------------|------------------------------|----------------------------|
| Orleans Parish, Black                 | 69.9                         | 69.9                       |
| Other, Black, Low Birth Weight        | 60.5                         | 60.5                       |
| Other, Black, Normal Birth Weight     | 64.1                         | 64.1                       |
| Other, Non Black, Low Birth Weight    | 65.6                         | 65.6                       |
| Other, Non Black, Normal Birth Weight | 66.6                         | 66.6                       |
| Overall                               | 66.0                         | 65.8                       |

| Characteristic            | # Sampled | Respondents | % Response<br>(Unweighted) | % Response<br>(Weighted) |
|---------------------------|-----------|-------------|----------------------------|--------------------------|
| <b>Overall</b>            | 2883      | 1902        | 66.0                       | 65.8                     |
| <b>Race/Ethnicity</b>     |           |             |                            |                          |
| Non-Hispanic White        | 924       | 612         | 66.2                       | 65.8                     |
| Non-Hispanic Black        | 1729      | 1140        | 65.9                       | 64.3                     |
| Other                     | 77        | 49          | 63.6                       | 74.0                     |
| Hispanic                  | 152       | 101         | 66.4                       | 68.5                     |
| <b>Hispanic Ethnicity</b> |           |             |                            |                          |
| Hispanic                  | 152       | 101         | 66.4                       | 68.5                     |
| Non-Hispanic              | 2726      | 1799        | 66.0                       | 65.5                     |
| <b>Age</b>                |           |             |                            |                          |
| <20                       | 247       | 163         | 66.0                       | 65.1                     |
| 20-29                     | 1725      | 1135        | 65.8                       | 65.7                     |
| 30+                       | 911       | 604         | 66.3                       | 66.1                     |
| <b>Education</b>          |           |             |                            |                          |
| <HS                       | 596       | 371         | 62.2                       | 65.6                     |
| HS                        | 938       | 623         | 66.4                       | 64.4                     |
| >HS                       | 1337      | 904         | 67.6                       | 66.6                     |
| <b>Marital Status</b>     |           |             |                            |                          |
| Married                   | 1020      | 688         | 67.5                       | 67.6                     |
| Other                     | 1863      | 1214        | 65.2                       | 64.1                     |
| <b>Previous Births</b>    |           |             |                            |                          |
| No Prev. Live Births      | 1013      | 695         | 68.6                       | 66.8                     |
| 1+ Prev. Live Births      | 1844      | 1189        | 64.5                       | 65.0                     |

## PRAMS Moms Say Thank You!

*"I think it's great that you are having programs and support to help mothers have healthy pregnancies and babies. Thank you and I appreciate the help!"*

*"There are a lot of things that I wish could have went different, even though I thank God for my amazing son. But motherhood is very difficult and very harder than I thought it would be. Thanks for taking out time to ask me these questions."*

*"I'm glad y'all are trying to get the most info to have research to find answers for something that matters."*

*"Thank you for working to keep babies healthy in Louisiana."*

*"To the mothers or up coming others, my advice to you would just be [...] take good care of yourself, and stay on your doctor's visits, and you would be okay!  
Thank you for this survey!"*

*"Well for the most of everything it's not an easy thing, but its the best thing that a mother can experience is having a baby. Watching them grow every day is wonderful. But take it one day at a time and don't be afraid to ask for help or anything cause everyone cares for you and the baby you have or giving life to. Congrats to anyone and everyone and never forget love your baby. Thank you for all the support, help and love."*

**LOUISIANA  
PRAMS**

Your  
voice.



Your baby's  
voice.