

Pregnancy
Risk
Assessment
Monitoring
System

2010 Summary Report

Healthy Babies Start With Healthy Mothers

Acknowledgments

Tennessee PRAMS project staff would like to express their gratitude to all of the mothers who took time to participate in the survey. Their information will provide a better understanding of the health of mothers and babies in Tennessee.

Project staff would like to acknowledge the PRAMS Steering Committee, as well as Kathy Henson for her administrative support. We would also like to thank the CDC/PRAMS project manager, Seema Gupta, for her support and assistance and Margaret Major, Director of Women's Health and Genetics in the Department of Health, who has provided ongoing support and assistance for Tennessee PRAMS from its early development and implementation through its current operation.

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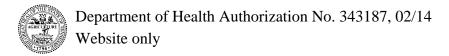


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Executive Summary

The Tennessee Pregnancy Risk Assessment Monitoring System (TN PRAMS) is a state-wide population-based survey based on a stratified random sample of women who gave birth to a live-born infant in 2010. The topics included in the survey were selected based on their relevance to maternal and infant health. The following summary highlights important findings within the report:

- Over one-fifth of mothers had no health insurance in the month prior to pregnancy.
- Approximately 49% of women were overweight or obese at the time they became pregnant.
- Two-thirds of mothers did not receive preconception counseling.
- Three-quarters of women did not take a daily multivitamin in the month prior to pregnancy.
- Almost one-half of pregnancies were unintended.
- Among women *not* trying to get pregnant, approximately one-half were also not using birth control.
- Nearly one-fifth of women received late or no prenatal care.
- Almost one-quarter of women did not receive an HIV test during pregnancy or delivery.
- Nearly two-thirds of women did not see a dentist during pregnancy.
- Almost three-quarters of women either did not meet or exceeded pregnancy weight gain recommendations.
- Approximately 10% of women developed gestational diabetes.
- Approximately 19% of women smoked cigarettes and 5% drank alcohol during the last 3 months of pregnancy.
- Over one-half of women were enrolled in the Supplemental Nutrition Program for Women, Infants and Children (WIC) during pregnancy.
- Approximately 5% of mothers reported physical abuse before and/or during pregnancy.
- Three-quarters of women reported at least one stressor in the 12 months prior to delivery.
- Approximately 13% of women reported symptoms of postpartum depression.
- The majority of mothers (88%) were using postpartum birth control at the time of the survey.
- The majority of mothers (89%) had received a postpartum checkup for themselves, and 98% reported that their infant had had a well-baby checkup.
- Over one-quarter of mothers did not initiate breastfeeding.
- About 38% of women who initiated breastfeeding breastfed for less than 8 weeks.
- Almost one-third of mothers did not use the back sleeping position for their infant and just over two-fifths reported bed sharing with their infant.
- Approximately 10% of mothers reported that their infants were exposed to secondhand smoke.
- Almost all mothers (over 99%) reported using a car seat to bring their infant home from the hospital and always or almost always using an infant car seat.
- Approximately 3% of women reported there was not a working smoke alarm in their home, and 10% reported that there was a loaded firearm in their home.

Overview

Background

Infant mortality rates in Tennessee are consistently higher than the national rate and have shown little change in recent years. Racial disparities in infant mortality have also persisted, with black babies in Tennessee 2.5 times as likely as white babies to die in their first year of life. Racial disparities in infant mortality are related in part to differences in recognized risk factors for infant mortality. Based on Tennessee birth certificate data, the prevalence of each of the following risk factors are higher among infants born to black mothers than among infants born to white mothers: low birthweight, prematurity, no prenatal care, a mother with a previous child death, an unmarried mother, a mother with high school or lower education, a teenage mother and multiple births. In order to reduce infant mortality in Tennessee, these risk factors need to be addressed. However, the above information is limited to data collected on birth and death certificates, and infant mortality risk factors such as low birthweight and prematurity are in actuality pregnancy outcomes that are affected by conditions of a pregnancy. While birth certificate information is vital to understanding and reducing the burden of infant mortality in the state, it does not address the behavioral, economic and social risk factors that occur prior to, during and after pregnancy that affect the health and well being of the mother, the developing fetus and the infant.

The Tennessee Department of Health (TDH) recognizes the need for maternal and child health data beyond that available from our current systems of vital and programmatic records. The Tennessee Pregnancy Risk Assessment Monitoring System (TN PRAMS), which collects information on maternal behaviors and experiences prior to, during and after pregnancy, provides data vital to our efforts to appropriately target programs and activities, and to ultimately improve birth outcomes and the health of both mothers and children in the state.

Survey Methodology

Tennessee PRAMS is conducted by the Research Division of the Office of Policy, Planning and Assessment in the TDH. The project was established in 2006 through a collaborative agreement between the Centers for Disease Control and Prevention (CDC) and TDH. Tennessee PRAMS was designed to collect, analyze, and disseminate information on a variety of maternal behaviors and experiences that may be associated with various birth outcomes.

Tennessee PRAMS is a statewide population-based survey of new mothers. Over the course of 2010, approximately two thousand women were selected to participate in the survey from the Tennessee Vital Statistics birth file. They were selected using stratified random sampling. Mothers were first separated into four different groups (or strata) based on infant birthweight [low birthweight (LBW) or normal birthweight (NBW)] and urban/rural residence and then randomly selected to participate. Sampling of the 2010 mothers was done monthly from April 2010 through April 2011. In order to be eligible for selection, mothers had to be Tennessee residents and have delivered a live-born infant within the timeframe of two to six months prior to the sampling date. Each mother was eligible to participate in the sampling process only once.

Selected mothers were then notified in a pre-letter that they had been selected to participate in the PRAMS survey. Shortly thereafter they were sent the PRAMS questionnaire via mail. If the mother did not respond after three mail survey attempts, she was contacted by telephone and given the opportunity to complete the questionnaire via phone interview. The questionnaire consisted of 84 standardized questions (see Appendix). There were four versions of the questionnaire available:

English adult, Spanish adult, English teen and Spanish teen. Mothers whose ethnicity was marked as 'Hispanic' on the birth certificate were sent both an English and Spanish version. Mothers under 18 years of age were sent the teen version(s). A bilingual telephone interviewer was available for mothers more comfortable communicating in Spanish.

After data collection was concluded, women's responses were linked to their corresponding birth certificate data. This linked PRAMS response/birth certificate dataset was then sent to the CDC for weighting. Weighting allows for the estimation of statistics for the entire population of women who delivered a live-born infant in Tennessee in 2010. Tennessee PRAMS data is weighted based on sample design, non-response and non-coverage. In 2010, 1,265 out of 2,124 sampled mothers completed the questionnaire and the overall, weighted response rate was 61%. The weighted response rates among mothers in the four sampling strata were as follows: LBW/urban 54%, LBW/rural 61%, NBW/urban 58% and NBW/rural 65%. Unfortunately, because the overall response rate was less than the 65% that the CDC regards as the epidemiologically valid threshold, the 2010 TN PRAMS data were not published by the CDC and it was recommended that TN PRAMS maintain these data for the internal use of the TDH only. Thus, this report was created with the intent to limit its distribution to programs within TDH concerned with maternal and child health, the PRAMS Steering Committee and other advisory committees concerned with maternal and child health. We ask that the report not be redistributed and that the estimates provided within be interpreted with caution. Efforts are currently being made to increase TN PRAMS visibility and to improve response rates.

Data Analysis

All data in this report were analyzed using the proc crosstab procedure in SAS-Callable SUDAAN release 10.0. Each topic area is organized to include one or more tables which present the prevalence of the various indicators by select demographic and socioeconomic characteristics (race/ethnicity, age, marital status, education, income, insurance, urban/rural residence). All prevalence tables include 95% confidence intervals (95% CI), which were used to determine if prevalence rates between demographic/socioeconomic groups, e.g. black non-Hispanics (black NH) vs. white non-Hispanics (white NH), were statistically significant. If the 95% confidence intervals did not overlap, the difference was determined to be statistically significant at the 0.05 level. The comparison of confidence intervals method is a conservative test of statistical significance. Thus, findings of non-significant differences should be interpreted with caution, especially when the two confidence intervals overlap only slightly.

Because estimates based on small samples are imprecise and may be biased, estimates for which the number of respondents was fewer than 30 (unweighted sample size) are not reported. Estimates based on sample sizes between 30 and 60 are reported, but they include a note stating that the results should be interpreted with caution. Only 79 Hispanic women (unweighted sample size) completed the survey, and the number of Hispanic respondents for several questions was less than 60.

Insurance status in all prevalence tables was defined based on women's insurance status just prior to becoming pregnant. Women who reported being on Medicaid, TennCare, CoverTN and/or CoverKids (with or without other health insurance) were classified in the TennCare group. Women who reported having insurance but not being on Medicaid, TennCare, CoverTN or CoverKids were classified in the insurance group.

The following table summarizes the demographic and socioeconomic characteristics of survey respondents:

Respondent Characteristics (Weighted %), 2010 Tennessee PRAMS						
Race	White NH	68.1%	Household Income	<\$10,000	29.9%	
	Black NH	20.2%		\$10-19,999	17.0%	
	Hispanic	7.9%		\$20-49,999	27.1%	
	Other	3.7%		\$50,000+	26.0%	
Age (years)	<20	11.8%	Education	< High School	19.1%	
	20-29	54.5%		High School	29.2%	
	30+	33.7%		> High School	51.7%	
Married	Yes	54.3%	Insurance	TennCare	29.7%	
	No	45.7%		Insurance	47.6%	
Residence	Urban	44.8%		None	22.8%	
	Rural	55.2%				

Body mass index (BMI), which was used in analyses of prepregnancy weight and pregnancy weight gain, was calculated using self-reported weight and height and the following formulas: BMI = [weight (kg) / height² (m²)] or [weight (lb) / height² (in²)]*703. A BMI of less than 18.5 is considered underweight, 18.5-24.9 is normal weight, 25 to 29.9 is overweight, and 30 and above is obese.

Adequacy of weight gain during pregnancy was determined using each respondent's self-reported, prepregnancy weight and height, as well as information on birth plurality and pregnancy weight gain from birth certificate data. Women were grouped into three categories of weight gain – inadequate, adequate and excessive – based on the following weight gain recommendations:¹

	Recommended Weight Gain (lbs)					
Prepregnancy BMI:	Underweight	Normal Weight	Overweight	Obese		
Singleton Pregnancy:	28-40	25-35	15-25	11-20		
Twin Pregnancy:		37-54	31-50	25-42		

Women who were underweight prior to pregnancy and who gave birth to twins were excluded from the analysis of weight gain because there was no recommended gain for this group. Women who gave birth to triplets or higher order multiples were excluded from all analyses because they were not included in sampling. These births are almost always low birthweight, although not as a result of the risk factors of interest to epidemiologic studies, and the mothers generally receive more than the usual level of prenatal care. Thus, these pregnancies are not likely to be representative of the general population.

TN PRAMS 2010 Summary Report

¹ Institute of Medicine and National Research Council. 2009. Weight Gain during Pregnancy: Reexamining the Guidelines. Washington, DC: The National Academic Press.

PRAMS Staff and Steering Committee

The TN PRAMS Project staff for 2010 consisted of:

- David J. Law, PhD (PRAMS Project Director)
- Anthony H. Rico, MS (PRAMS Project Coordinator)
- Audrey M. Bauer, DVM, MPH (Epidemiologist/Analyst)
- Yinmei Li, MD, PhD (Epidemiologist)
- David Howard (PRAMS Data Manager)

The TN PRAMS Steering Committee for 2010 advised staff on the development and selection of statespecific questions and on the use, dissemination, and application of findings. Committee members included:

- David J. Law, PhD, Director of Research, Office of Policy, Planning and Assessment, TDH
- Teresa Hendricks, State Registrar, TDH
- Lori Ferranti, RN, MBA, MSN, PhD, Director, Office of Policy, Planning and Assessment, TDH
- Margaret Major, RD, MPA, Director, Women's Health and Genetics Section, TDH
- Peggy Lewis, Director, WIC, TDH
- Cheryl W. Major, RNC, BSN, Tennessee Perinatal Association
- Mark Gaylord, MD, University of Tennessee-Knoxville and Tennessee Pediatric Society
- Melanie Lutenbacher, PhD, APRN, Director, Nursing Science Programs, Vanderbilt University
- Cathy R. Taylor, MSN, RN, DrPH, Assistant Commissioner, Bureau of Health Services Administration, TDH
- Kimberlee Wyche-Etheridge, MD, MPH, Maternal Child Health Director, Nashville-Davidson County Metropolitan Health Department

2010 Tennessee **PRAMS**

Results

Prepregnancy Health Insurance Prepregnancy Weight Preconception Counseling Folic Acid Awareness and Use Pregnancy Intent Preconception Birth Control Use

Prepregnancy Health Insurance

TN PRAMS asks: During the month before you got pregnant with your new baby, were you covered by any of these health insurance plans? (Q2). Responses were classified into three groups: insurance, TennCare and none. [A detailed description of how insurance status was determined may be found in the data analysis overview on pages iii-iv.]

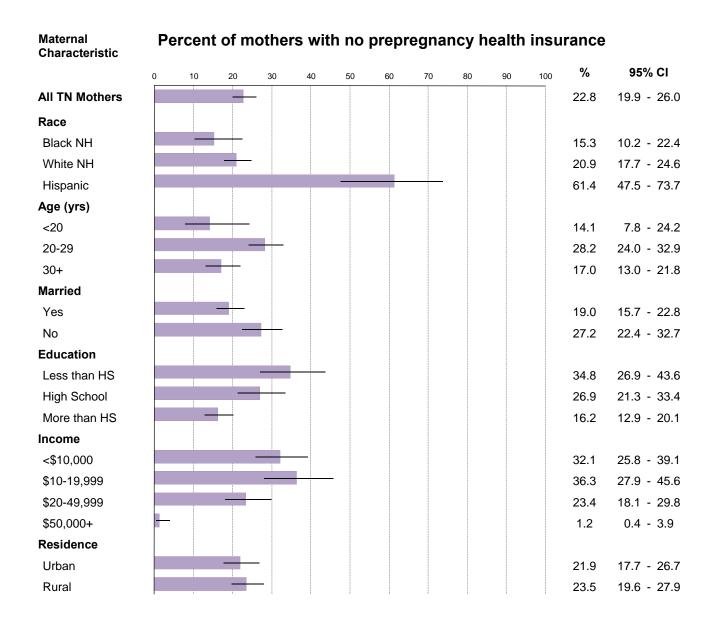
Background

In 2010, 16% of Tennessee women of childbearing age did not have any kind of health care coverage. Among women without coverage, over two-thirds were unable to see a doctor when needed because of cost and over one-half did not have a routine checkup within the past year. Lack of health insurance may prevent women from accessing routine preventive care and family planning services, effectively managing chronic conditions, and entering prenatal care early; all of which could adversely affect maternal and child health outcomes.

- Over one-fifth (22.8%) of mothers reported having no health insurance in the month prior to pregnancy.
- Hispanic women were more likely than black or white non-Hispanics to by uninsured.
- Unmarried women were more likely than those who were married to be uninsured.
- Compared to women with more than a high school education, those with lower levels of education were more likely to be uninsured.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were more likely to be uninsured.

¹ 2010 Tennessee Behavioral Risk Factor Surveillance System (BRFSS); women aged 18-44 years

Prepregnancy Health Insurance cont.



Prepregnancy Weight

TN PRAMS asks: 1) Just before you got pregnant with your new baby, how much did you weigh? (Q4); and 2) How tall are you without shoes? (Q5). Responses were used to determine body mass index (BMI), a measure of body fat based on weight and height. A BMI less than 18.5 is considered underweight, 18.5-24.9 is normal weight, 25 to 29.9 is overweight, and 30 and above is obese. [A detailed description of BMI calculation may be found in the data analysis overview on pages iii-iv.]

Background

In 2010, approximately 58% of Tennessee women of childbearing age were overweight or obese. This has important implications for maternal and child health, especially given the fact that approximately half of all pregnancies are unplanned. Maternal obesity is associated with many pregnancy complications, including cesarean delivery, macrosomia, large for gestational age infants, pregnancy-induced high blood pressure, preeclampsia, gestational diabetes mellitus, a higher incidence of certain birth defects, and difficulty initiating and sustaining breastfeeding. ^{2,3}

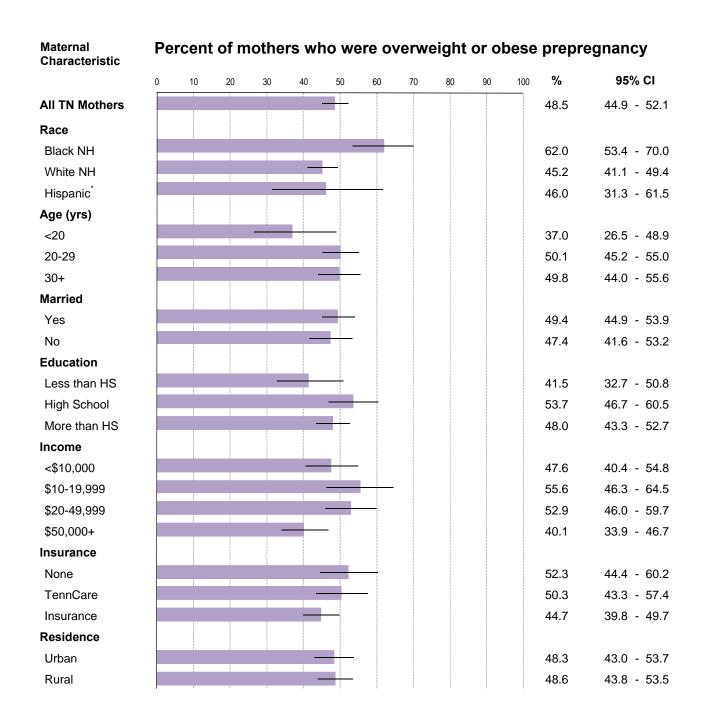
- Almost one-half (48.5%) of mothers were overweight or obese at the time they became pregnant.
- Black non-Hispanics were more likely than white non-Hispanics to be overweight or obese prior to pregnancy.

¹ 2010 Tennessee Behavioral Risk Factor Surveillance System (BRFSS); women aged 18-44 years

² Centers for Disease Control and Prevention. Maternal and Infant Health Research: Pregnancy Complications. Accessed April 2011 at http://www.cdc.gov/reproductivehealth/MaternalInfantHealth/PregComplications.htm#obesity.

³ Poston L, et al. Obesity in Pregnancy: Implications for the Mother and Lifelong Health of the Child. A Consensus Statement. Pediatric Research 2011; 69(2): 175-180.

Prepregnancy Weight cont.



^{*} Results for Hispanics based on unweighted sample size of less than 60 - results should be interpreted with caution.

Preconception Counseling

TN PRAMS asks: Before you got pregnant with your new baby, did a doctor, nurse or other health care worker talk with you about how to prepare for a healthy pregnancy and baby? (Q8).

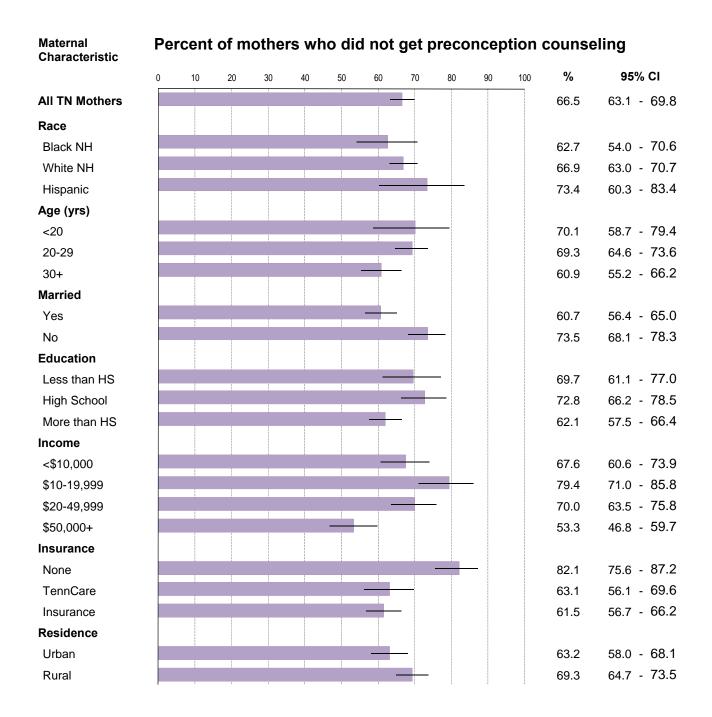
Background

Preconception care is the health care a woman receives before or between pregnancies. The purpose is to provide health education, screening and interventions to women of childbearing age in order to reduce risk factors that might adversely affect future pregnancies. Certain behaviors and medical conditions can adversely affect a developing fetus, especially during the first few weeks after conception when a woman may not yet know she's pregnant. Preconception counseling and care offer an opportunity for all women of childbearing age to address these behaviors and conditions, improve their overall health and prepare for a healthy baby if and when they're ready.

- Two-thirds (66.5%) of mothers did not receive preconception counseling.
- Unmarried women were less likely than those who were married to receive counseling.
- Women who were uninsured just prior to getting pregnant were less likely to receive preconception counseling than those with health insurance or those enrolled in TennCare.

¹ Trust for America's Health. Healthy Women. Healthy Babies. Accessed May 2011 at http://www.healthyamericans.org.

Preconception Counseling cont.



Folic Acid Awareness and Use

TN PRAMS asks: 1) Have you ever heard or read that taking a vitamin with folic acid can help prevent some birth defects (Q28); 2) Have you ever heard about folic acid from any of the following [sources]? (Q29); and 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? (Q3).

Background

Between 2005 and 2009, 293 infants in Tennessee were born with neural tube defects, a type of birth defect affecting the brain and spinal cord.¹ Folic acid is a form of B vitamin that can help prevent neural tube defects.² However, folic acid only works if taken before getting pregnant and during the first few weeks of pregnancy, often before a woman knows she is pregnant.² Since approximately one-half of all pregnancies are unplanned, it is recommended that all women of childbearing age (even if they're not trying to get pregnant) get at least 400 micrograms of folic acid every day.²

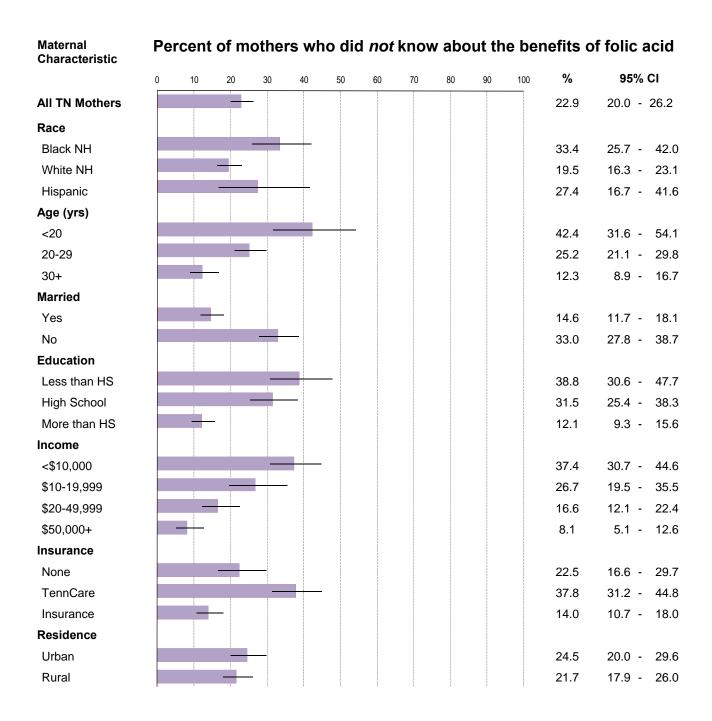
- Although 77% of mothers said they were aware of the benefits of folic acid, just 25% reported taking a daily multivitamin, prenatal vitamin or folic acid vitamin in the month prior to pregnancy.*
- Over one-fifth of women did not know about the benefits of folic acid.
- Almost three-quarters (75.4%) of women did not take daily folic acid prior to pregnancy.
- Black non-Hispanics were more likely than white non-Hispanics to be unaware of the benefits of folic acid and to not take daily folic acid prior to pregnancy.
- Folic acid awareness and use decreased with decreasing age.
- Unmarried women were less likely than those who were married to be aware of the benefits of folic and to not take daily folic acid prior to pregnancy.

¹ Tennessee Birth Defects Registry; includes anencephaly, spina bifida, and encephalocele

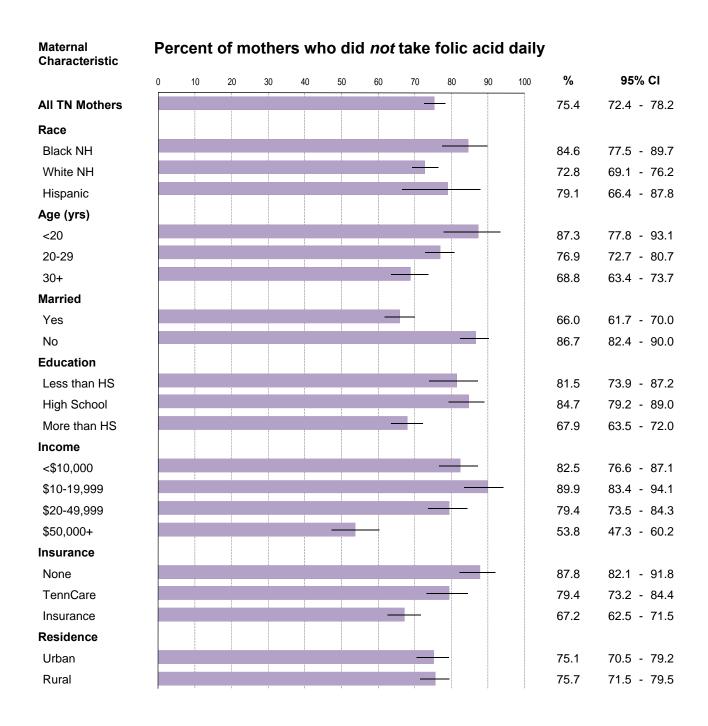
² March of Dimes. Accessed May 2011 at http://www.marchofdimes.com/pregnancy/folicacid.html.

^{*} It was not possible to determine when women became aware of the benefits of folic acid (i.e. before, during or after pregnancy.

Folic Acid Awareness and Use cont.



Folic Acid Awareness and Use cont.



Pregnancy Intent

TN PRAMS asks: Thinking back to just before you got pregnant with your new baby, how did you feel about becoming pregnant? (Q14). An intended (i.e. planned) pregnancy was one in which the mother answered that she wanted to be pregnant then or sooner. Women who wanted to be pregnant later (mistimed pregnancy) or not at all (unwanted pregnancy) were classified as having an unintended pregnancy.

Background

Unintended pregnancies are associated with a range of behaviors that can adversely affect maternal and child health. It is therefore recommended that everyone, men and women, have a reproductive life plan (RLP) based on their own personal values and resources. An RLP is a set of goals about having or not having children and how to achieve them. It details when and under what conditions someone wants to get pregnant, the number and spacing of children, and what to do to prevent pregnancy until ready. RLPs can increase the number of planned pregnancies and encourage individuals to address behaviors before conception, thus reducing the risk for adverse outcomes for both mothers and infants. I

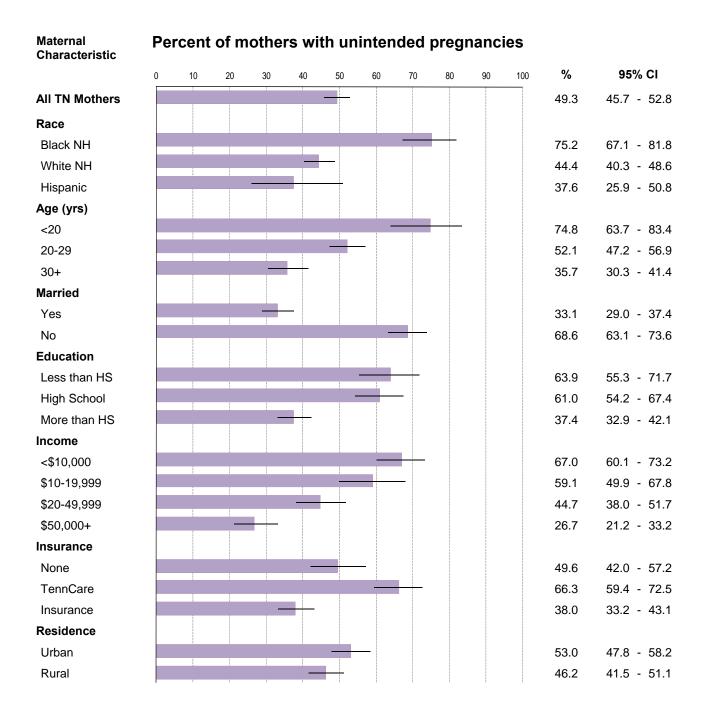
- Approximately one-half (49.3%) of mothers said their pregnancies were unintended.
- Unintended pregnancies were more common among black-non-Hispanics than among Hispanics and white non-Hispanics.
- Unintended pregnancies increased with decreasing age.
- Unmarried women were more likely than those who were married to have an unintended pregnancy.
- Compared to women with more than a high school education, those with lower levels of education were more likely to have an unintended pregnancy.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were more likely to have an unintended pregnancy.

¹ Williams L, Morrow B, Shulman H, Stephens R, D'Angelo D, Fowler CI. PRAMS 2002 Surveillance Report. Atlanta, GA: Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, 2006.

² Centers for Disease Control and Prevention. Recommendations to Improve Preconception Health and Health Care. MMWR 2006; 55(RR-6).

³ Centers for Disease Control and Prevention. Preconception Care Questions and Answers. Accessed May 2011 at http://www.cdc.gov/ncbddd/preconception/QandA.htm.

Pregnancy Intent cont.



Preconception Birth Control Use

TN PRAMS asks: When you got pregnant with your new baby, were you or your husband or partner doing anything to keep from getting pregnant? (Q17). Additional questions ask about reasons for not using birth control (Q18) and birth control methods (Q19).

Background

Unintended pregnancy can result from the failure to use birth control, inconsistent or improper use of effective birth control, use of less effective birth control, or in rare cases, failure of highly effective birth control. Failure to use contraception is the major cause of unintended pregnancy in the United States – approximately one-half of all unintended pregnancies are among women who did not use birth control. It is estimated that the overall rate of unintended pregnancy could be cut in half if these women were to use highly effective contraceptive methods.

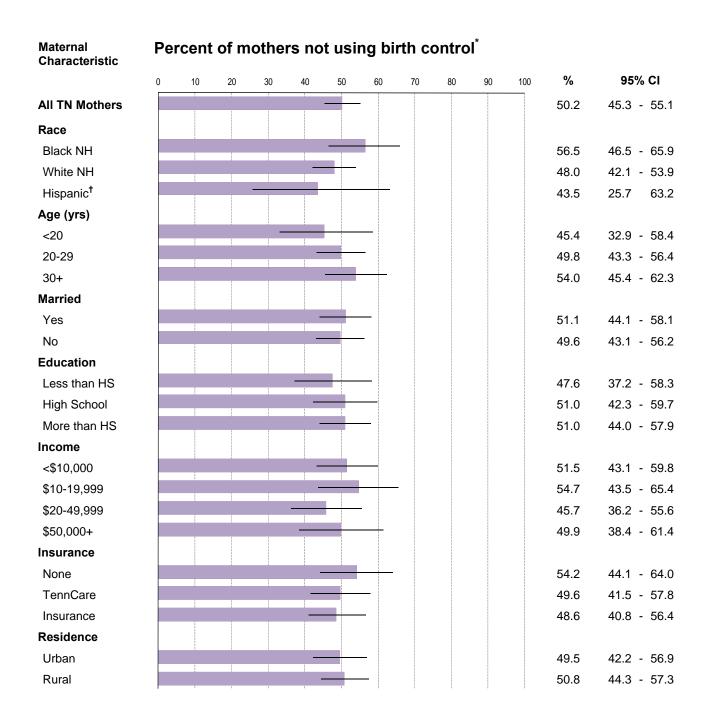
- Approximately one-half (50.2%) of women who said they were *not* trying to get pregnant were also not using birth control at the time they became pregnant.*
- The percentage of women not using birth control was similar across demographic and socioeconomic subgroups.

¹ Williams L, Morrow B, Shulman H, Stephens R, D'Angelo D, Fowler CI. PRAMS 2002 Surveillance Report. Atlanta, GA: Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, 2006.

² Centers for Disease Control and Prevention. PRAMS and... Unintended Pregnancy. Accessed May 2011 at http://www.cdc.gov/PRAMS/PDFs/PRAMSUnintendPreg.pdf.

^{*}Analysis limited to women not trying to get pregnant, regardless of pregnancy intent.

Preconception Birth Control Use cont.



^{*} Analysis limited to women not trying to get pregnant, regardless of pregnancy intent.

 $^{^{\}dagger}$ Results for Hispanics based on unweighted sample size of less than 60 – results should be interpreted with caution.

Prenatal Care
HIV Testing
Oral Health
Pregnancy Weight Gain
Gestational Diabetes

Prenatal Care

TN PRAMS asks: How many weeks or months pregnant were you when you had your first visit for prenatal care? (Q21). Women who initiated care after the first trimester of pregnancy (after 12 weeks/3 months or later) were classified as receiving late prenatal care. Those who initiated care within the first trimester were classified as receiving early prenatal care. Additional questions ask about desired timing of (Q22), barriers to (Q23) and content of (Q25) prenatal care.

Background

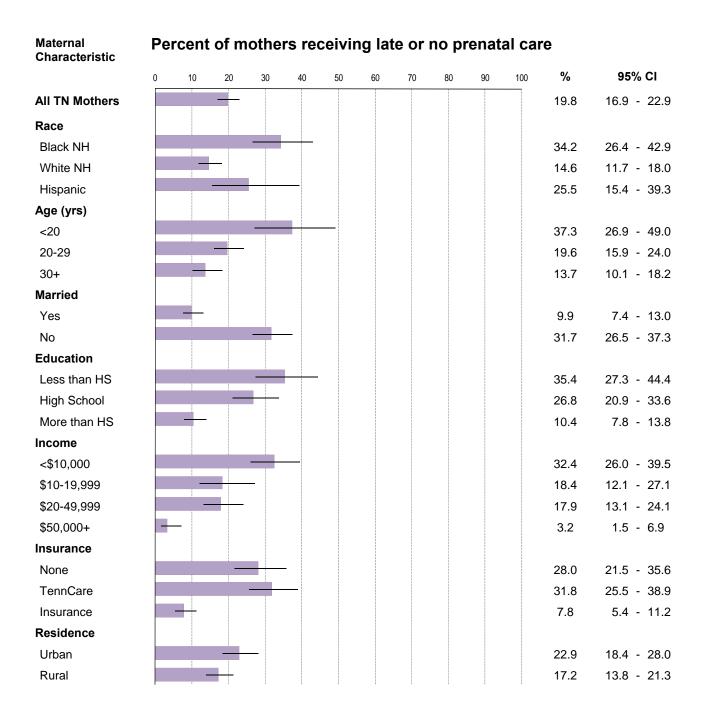
Prenatal care is the health care a woman receives while she is pregnant. Early and regular prenatal care visits allow health care providers to follow the progress of a baby's development; identify potential problems and either prevent them or treat them early; and provide education and counseling on pregnancy and childbirth. Inadequate prenatal care is associated with increased risk of low birthweight and premature birth, and of neonatal, infant and maternal mortality. It is therefore important that women schedule their first prenatal appointment as soon as they think they may be pregnant.

- Almost one-fifth of women (19.8%) received late or no prenatal care.
- Black non-Hispanics were more likely than white non-Hispanics to receive late or no care.
- Teens were less likely to receive prenatal care than adult women
- Unmarried women were less likely than those who were married to receive prenatal care.
- Compared to women with more than a high school education, those with lower levels of education were less likely to receive prenatal care.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were less likely to receive prenatal care.
- Women with health insurance were more likely to receive prenatal care than those who were uninsured or on TennCare.

¹ WebMD. Women's Health: Your First Prenatal Doctor's Visit. Accessed May 2011 at http://women.webmd.com/first-doctor-visit.

² Wilcox LS, Marks JS. (1994). From Data to Action: CDC's Public Health Surveillance for Women, Infants, and Children. CDC maternal and child health monograph. Atlanta, GA: Centers for Disease Control and Prevention.

Prenatal Care cont.



HIV Testing

TN PRAMS asks: At any time during your most recent pregnancy or delivery, did you have a test for HIV (the virus that causes AIDS)? (Q26). Women who had not received a test were asked whether or not they had been offered one (Q27).

Background

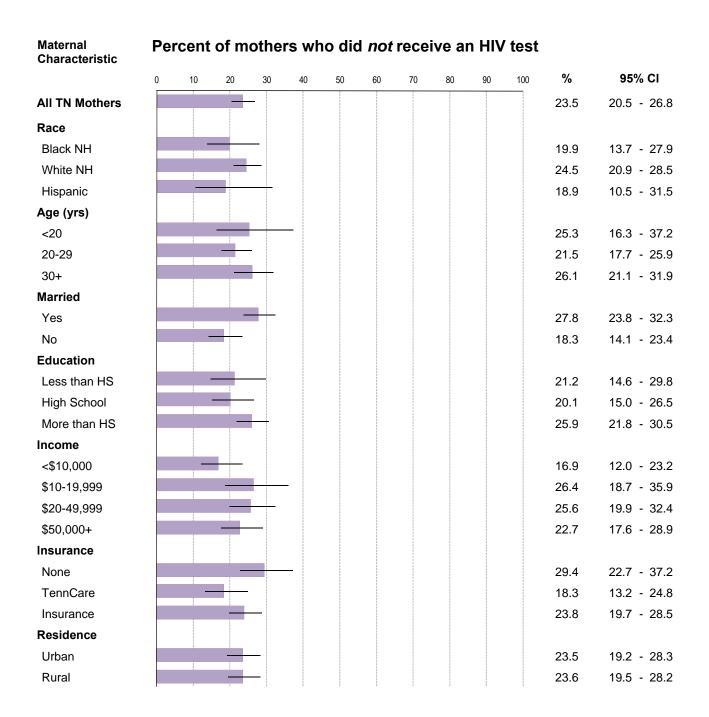
It is recommended that all women be tested for HIV as early as possible in their pregnancies. Women who test positive for HIV and begin treatment early reduce the risk of mother-to-child HIV transmission from 25% (transmission rate for women who don't receive treatment) to 2% or less. However, it's never too late to be tested. Even if a woman has not had prenatal care or has declined testing until labor and delivery, a rapid HIV test can be done at that time and treatment started during labor can still reduce transmission to approximately 10%.

- Approximately one-quarter (23.5%) of women did not receive an HIV test during pregnancy or delivery.
- Married women were less likely to receive an HIV test than those who were not married.

¹ Centers for Disease Control and Prevention. Revised Recommendations for HIV Testing of Adults, Adolescents, and Pregnant Women in Health-Care Settings. MMWR 2006; 55(RR-14):1-16.

² Centers for Disease Control and Prevention. One Test. Two Lives. Accessed May 2011 at http://www.cdc.gov/hiv/topics/perinatal/1test2lives/default.htm.

HIV Testing cont.



Oral Health

TN PRAMS asks: During your most recent pregnancy 1) Did you need to see a dentist for a problem? (Q77a); 2) Did you go to a dentist or dental clinic? (Q77b); and 3) Did a dental or other health care worker talk with you about how to care for your teeth and gums? (Q77c).

Background

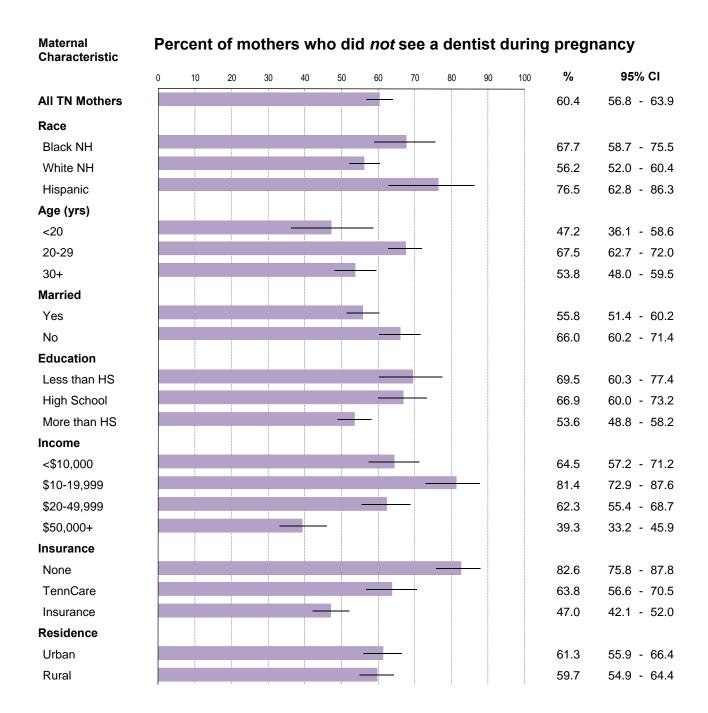
Oral health problems are common in pregnant women.¹ Vomiting caused by morning sickness can weaken tooth enamel causing cavities, and hormonal changes can lead to inflammation of the gums.^{1,2} Left untreated, severe gum disease can lead to periodontal disease which has been associated with adverse pregnancy outcomes such as preterm birth and low birth weight.^{1,2} Routine dental care and necessary treatment for oral health problems is safe and effective during pregnancy, and it is recommended that pregnant women have an oral exam as soon as possible during their pregnancy.¹

- Almost two-thirds (60.4%) of mothers did not see a dentist during pregnancy.
- Black non-Hispanics were less likely to see a dentist than white non-Hispanics.
- Compared to women with more than a high school education, those with lower levels of education were less likely to see a dentist.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were less likely to see a dentist.
- Women with health insurance were more likely to see a dentist than those who were uninsured or on TennCare.

¹ New York State Department of Health (2006). Oral Health Care During Pregnancy and Early Childhood: Practice Guidelines. Accessed June 2011 at http://www.health.state.ny.us/publications/0824.pdf.

² Mayo Clinic. Dental Health During Pregnancy. Accessed June 2011 at http://www.mayoclinic.com/health/dental-health-during-pregnancy/MY00719.

Oral Health cont.



Pregnancy Weight Gain

Adequacy of weight gain during pregnancy was determined using each respondent's self-reported, prepregnancy body mass index (BMI), as well as information on birth plurality and pregnancy weight gain from birth certificate data. Women were grouped into three categories of weight gain – inadequate, adequate and excessive – based on 2009 Institute of Medicine guidelines. [A detailed description of BMI and pregnancy weight gain categories may be found in the data analysis overview on pages iii-iv.]

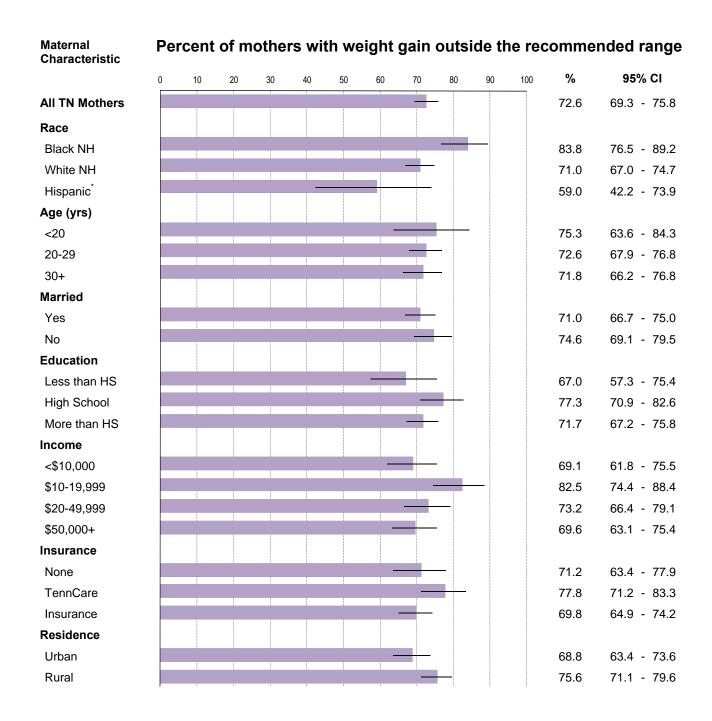
Background

Women whose weight gain during pregnancy is outside the recommended ranges may experience various adverse maternal outcomes, which may include increased risk for pregnancy-induced high blood pressure, gestational diabetes, complications during labor and delivery, postpartum weight retention and subsequent maternal obesity, and an increased risk for unsuccessful breastfeeding. Ideally, women should be within a normal BMI range when they conceive. However, it is important that women gain weight within the recommended guidelines, regardless of their prepregnancy BMI.

- Almost three-quarters (72.6%) of women either did not meet or exceeded pregnancy weight gain recommendations.
- Black non-Hispanics were less likely to be within weight gain recommendations than Hispanics or white-non-Hispanics.

¹ Institute of Medicine and National Research Council. 2009. Weight Gain during Pregnancy: Reexamining the Guidelines. Washington, DC: The National Academic Press.

Pregnancy Weight Gain cont.



^{*} Results for Hispanics based on unweighted sample size of less than 60 - results should be interpreted with caution.

Gestational Diabetes

TN PRAMS asks: 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)? (Q32).

Background

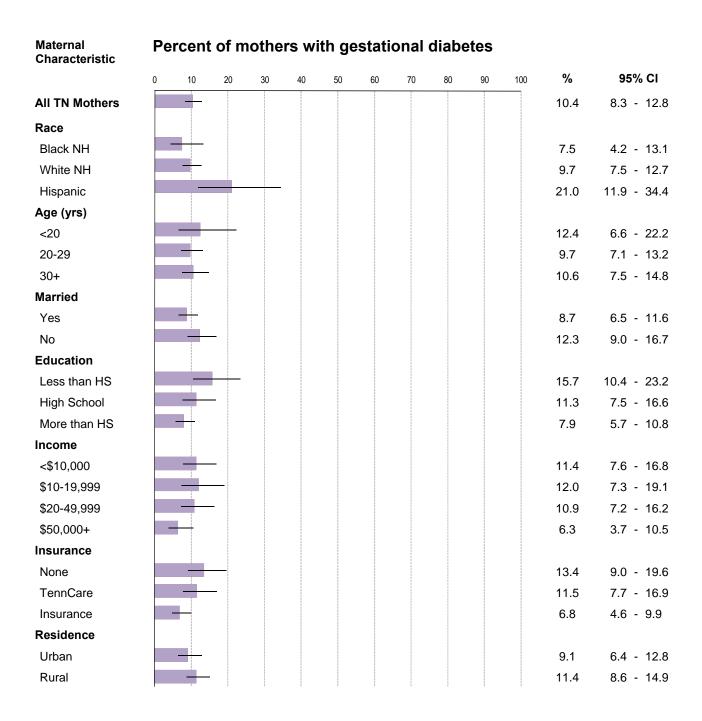
Gestational diabetes is a type of diabetes that first develops during pregnancy, and is characterized by blood sugar levels that are too high.¹ High blood sugar can lead to problems for both a pregnant woman and her baby, including high blood pressure, delivering a too large baby, serious birth trauma for both the mother and infant, and the necessity of a C-section delivery.² Although gestational diabetes typically goes away after delivery, these women are at increased risk of developing type 2 diabetes later in life.² For this reason it is important for women who have had gestational diabetes to be rescreened for diabetes after their baby is born.²

- The prevalence of gestational diabetes among new mothers was 10.4%.
- There were no statistically significant differences in the prevalence of gestational diabetes across demographic and socioeconomic subgroups.

¹ Centers for Disease Control and Prevention. Gestational Diabetes fact sheet. Accessed June 2011 at http://www.cdc.gov/diabetes/pubs/pdf/gestationalDiabetes.pdf.

² Centers for Disease Control and Prevention, National Center for Birth Defects and Developmental Disabilities. *Gestational Diabetes and Pregnancy*. Accessed June 2011 at http://www.cdc.gov/NCBDDD/pregnancy_gateway/diabetes-gestational.html.

Gestational Diabetes cont.



Tobacco and Alcohol Use

Cigarette Smoking Alcohol Use

Tobacco and Alcohol Use

Cigarette Smoking

TN PRAMS asks: 1) Have you smoked any cigarettes in the past 2 years? (Q34); and 2) In the 3 months before you got pregnant, how many cigarettes did you smoke on an average day? (Q35). Additional questions ask about cigarette use during the last 3 months of pregnancy (Q36) and at the time of the survey (Q37). Women who reported that they had not smoked in the past 2 years were classified as nonsmokers for all three time periods. Among the remaining women, those with any reported cigarette use (even less than one cigarette) for a given time period were classified as smokers for that time period.

Background

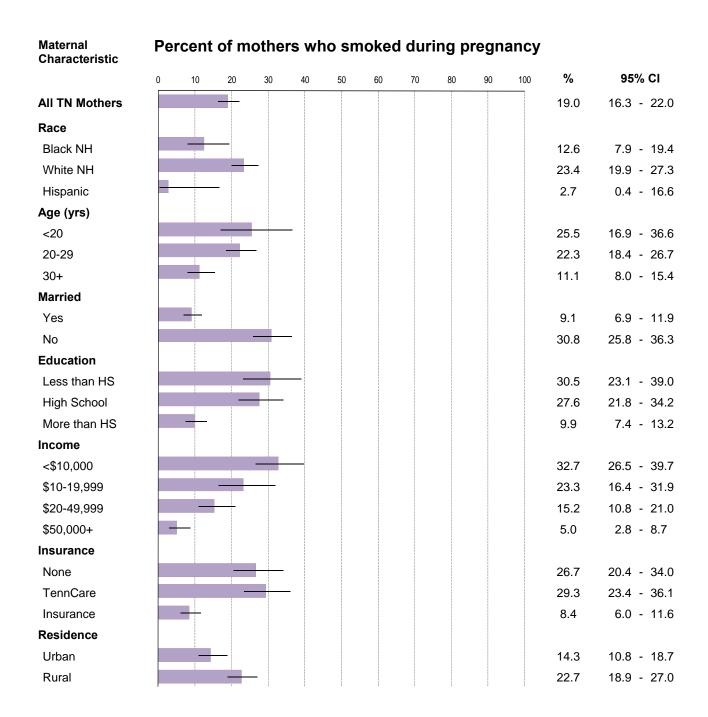
Smoking before and during pregnancy is the single most preventable cause of illness and death among mothers and infants.¹ Women who smoke during pregnancy are at increased risk for many adverse outcomes, including delayed conception, miscarriage, preterm birth, low birthweight, and certain birth defects.¹ In addition, babies that are exposed to secondhand smoke are at increased risk for bronchitis, pneumonia, severe asthma, ear infections and sudden infant death syndrome (SIDS).¹

- Approximately one-fifth (19.0%) of women smoked during the last 3 months of pregnancy.
- White non-Hispanics were more likely than Hispanics or black non-Hispanics to smoke during pregnancy.
- Older women (30+ years) were less likely to smoke than younger women and teens.
- Unmarried women were more likely than those who were married to smoke during pregnancy.
- Compared to women with more than a high school education, those with lower levels of education were more likely to smoke during pregnancy.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were more likely to smoke during pregnancy.
- Uninsured women and those receiving TennCare were more likely to smoke than those with insurance.
- Women living in rural areas were more likely to smoke than those living in urban areas.

¹ CDC, National Center for Chronic Disease Prevention and Health Promotion. Preventing Smoking During Pregnancy Fact Sheet. Accessed June 2011 at http://www.cdc.gov/nccdphp/publications/factsheets/Prevention/pdf/smoking.pdf.

Tobacco and Alcohol Use

Cigarette Smoking cont.



Tobacco and Alcohol Use

Alcohol Use

TN PRAMS asks: 1) Have you had any alcoholic drinks in the past 2 years? (Q39); 2) During the 3 months before you got pregnant, how many alcoholic drinks did you have in an average week? (Q40a); and 3) During the 3 months before you got pregnant how many times did you drink 4 alcoholic drinks or more in one sitting (Q40b). Additional questions ask about alcohol use during the last 3 months of pregnancy (Q41a-b). Women who reported not drinking in the past 2 years were classified as nondrinkers for both time periods. Women with any alcohol use (even less than one drink) for a given time period were classified as drinkers for that time period.

Background

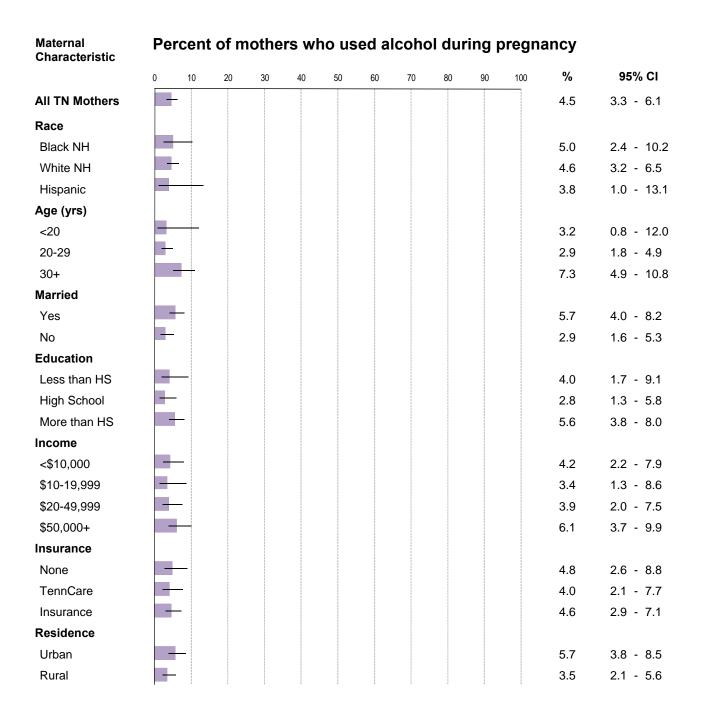
When a pregnant woman drinks alcohol, so does her unborn baby – alcohol in the mother's blood passes through the placenta to the baby through the umbilical cord. Drinking alcohol during pregnancy can cause miscarriages, stillbirths, and a range of lifelong disorders known as fetal alcohol spectrum disorders (FASDs). FASDs include a range of physical and mental disabilities and problems with behavior and learning. They are 100% preventable if a woman does not drink alcohol while pregnant. There is no known safe amount of alcohol and no safe time to drink during pregnancy. A woman should not drink any alcohol while pregnant or planning to get pregnant.

- Overall, 4.5% of women drank alcohol during the last 3 months of pregnancy.
- There were no statistically significant differences in alcohol use during pregnancy across demographic and socioeconomic subgroups.

¹ CDC, National Center on Birth Defects and Developmental Disabilities. Fetal Alcohol Spectrum Disorders Homepage. Accessed June 2011 at http://www.cdc.gov/ncbddd/fasd/index.html.

Tobacco and Alcohol Use

Alcohol Use cont.



WIC Participation
Physical Abuse
Maternal Stressors

WIC Participation

TN PRAMS asks: During your most recent pregnancy, were you on WIC (the Special Supplemental Nutrition Program for Women, Infants and Children)? (Q31).

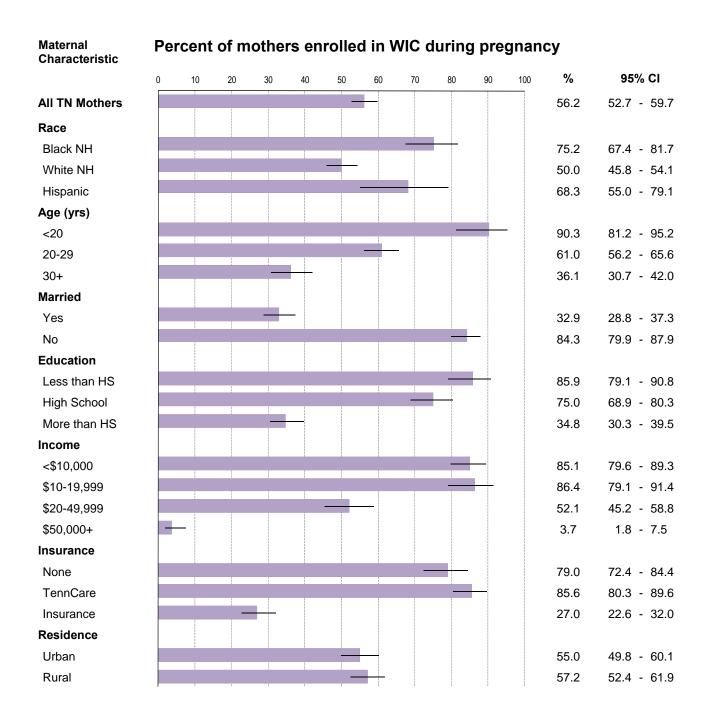
Background

The Special Supplemental Nutrition Program for Women, Infants and Children (WIC) is a national program to enhance maternal and infant health through better nutrition and education. WIC enhances the health of women, infants and children by promoting improved preconception nutrition status, breastfeeding, infant feeding practices, childhood immunizations, proper nutrition, and the use of appropriate medical services by women and children. Eligibility for the program is based on income and nutritional risk. WIC has been shown to be effective in reducing the incidence of low birthweight, preterm delivery, and small-for-gestational age births, especially among women at high risk because of sociodemographic characteristics or nutritional or medical conditions.

- Over one-half (56.2%) of new mothers were enrolled in WIC during pregnancy.
- WIC participation increased with decreasing age, with 90% of teen mothers enrolled in the program.
- Unmarried women were more likely to participate in WIC than married women.
- Compared to women with more than a high school education, those with lower levels of education were more likely to participate in WIC.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were more likely to participate in WIC.
- Uninsured women and those receiving TennCare were more likely to participate in WIC than those with insurance.

Centers for Disease Control and Prevention. 2002 PRAMS Surveillance Report: Multistate Exhibits, WIC Participation during Pregnancy. Accessed July 2011at http://www.cdc.gov/PRAMS/2002PRAMSSurvReport/MultiStateExhibits/Multistates10.htm.

WIC Participation cont.



Physical Abuse

TN PRAMS asks: 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? (Q46). An additional and similarly worded question asks about abuse during pregnancy (Q47). Women were considered physically abused if they responded positively to one or both of the above questions. Due to reporting requirements in Tennessee, mothers who were under 18 years of age were not asked physical abuse questions and were therefore not included in the analyses.

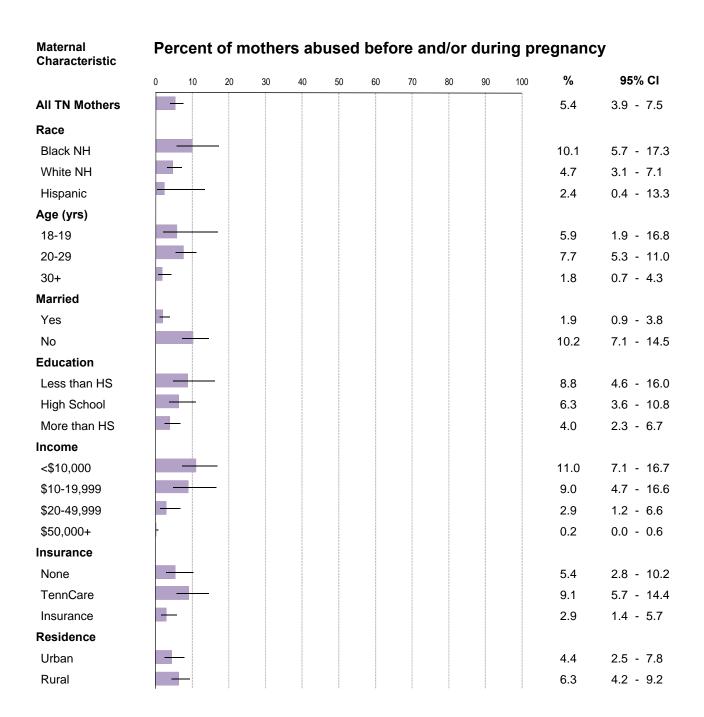
Background

Physical violence against women around the time of pregnancy can adversely affect the health and well-being of women, their fetuses and infants, and other children in the household. It is associated with use of alcohol, tobacco and drugs; a high level of stressful life events; unintended pregnancies; delayed entry into prenatal care; maternal infection, anemia, second- and third-trimester bleeding, and inadequate weight gain; preterm labor; and low birthweight. Prenatal care visits offer a unique window of opportunity for health care providers to identify and assist women who are at risk for or are experiencing violence. It is recommend that providers screen for violence at the first prenatal care visit, at least once per trimester and at the postpartum checkup.

- Overall, 5.4% of women reported physical abuse before and/or during pregnancy.
- Unmarried women were more likely to be abused than those who were married.

¹ Centers for Disease Control and Prevention. 2002 PRAMS Surveillance Report: Multistate Exhibits, Physical Abuse. Accessed July 2011 at http://www.cdc.gov/PRAMS/2002PRAMSSurvReport/MultiStateExhibits/Multistates11.htm.

Physical Abuse cont.



Maternal Stressors

TN PRAMS asks mothers whether or not certain stressful events happened during the 12 months before their new baby was born (Q42a-m). Additional questions ask about food security (Q43), neighborhood safety (Q44) and experiences of racism (Q45) during this same time period.

Background

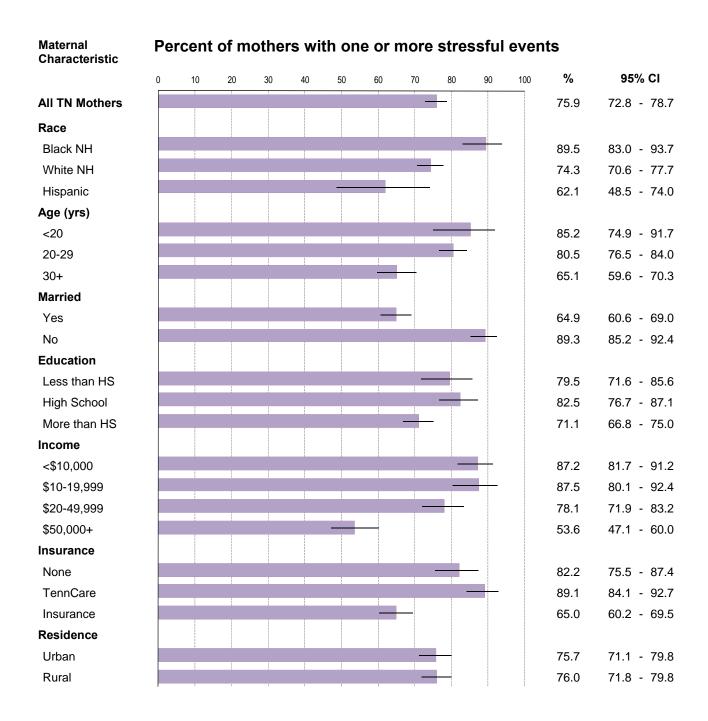
Most women cope well with the emotional and physical changes of pregnancy and other changes in their lives. However, certain types of negative life events (e.g. divorce, death in the family) and long-term stressors (e.g. difficulty obtaining food, caring for a chronically ill child) may contribute to premature birth and low birthweight. This may occur as the result of hormonal changes, interference with the immune system, or alterations in behavior (e.g. smoking to relieve stress). Because a woman's perception of stress influences how her body responds to it and how her pregnancy is affected, it is important for each pregnant woman to identify sources of stress in her life and develop effective ways to deal with them, or to consult a health care provider if she feels overwhelmed. 1,2

- Approximately three-quarters of women (75.9%) reported at least one stressful event in the 12 months prior to delivery.
- Black non-Hispanics were more likely than Hispanics or white-non-Hispanics to report one or more stressor.
- Teens and young adults (20-29 years) were more likely to report one or more stressor than older women.
- Unmarried women were more likely to report one or more stressor than those who were married.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were more likely to report one or more stressors.
- Uninsured women and those receiving TennCare were more likely to report one or more stressors than those with insurance.

¹ March of Dimes. Stress and Pregnancy - In Depth. Accessed July 2011 at http://www.marchofdimes.com/pregnancy/lifechanges_indepth.html.

² Hobel CJ, Goldstein A, Barrett ES. Psychological Stress and Pregnancy Outcomes. Clinical Obstetrics and Gynecology 2008; 51(2):333-348.

Maternal Stressors cont.



Postpartum Checkup
Postpartum Depression
Postpartum Birth Control Use

Postpartum Checkup

TN PRAMS asks: Since your new baby was born, have you had a postpartum checkup for yourself? (Q72).

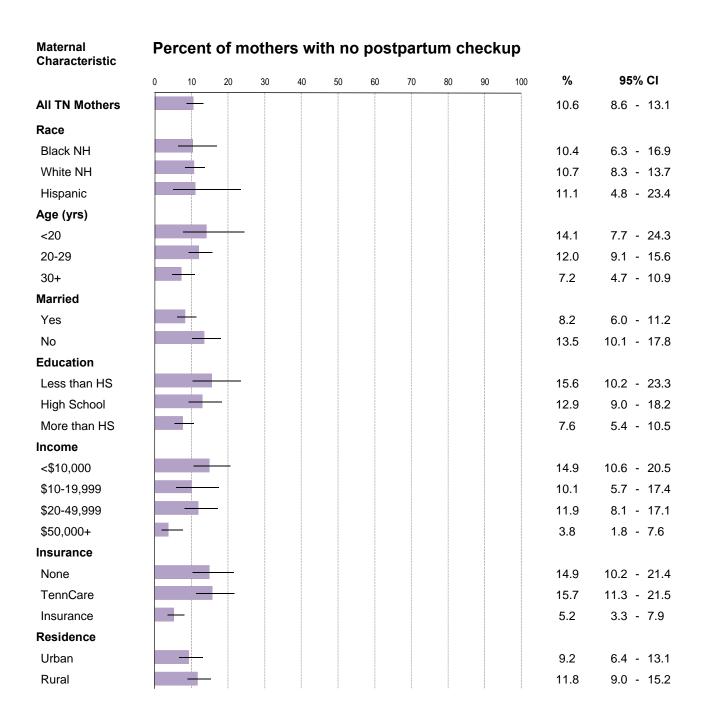
Background

It is recommended that women who give birth have a postpartum health checkup four to six weeks after delivery. Postpartum checkups provide important opportunities to assess the physical and psychological well-being of the mother, counsel her on infant care and family planning, and detect and give appropriate referrals for preexisting or developing chronic conditions such as diabetes, high blood pressure and obesity. 1

- Overall, 10.6% of mothers did not receive a postpartum checkup.
- Uninsured women and those on TennCare were less likely to have a postpartum checkup than women with health insurance.

¹ Centers for Disease Control and Prevention. Postpartum Care Visits – 11 States and New York City, 2004. MMWR 2007; 56(50):1312-1316.

Postpartum Checkup cont.



Postpartum Depression

TN PRAMS asks women to use a scale of 1 (never) to 5 (always) to describe their feelings and experiences since their new baby was born. Specifically, women are asked whether they have felt down, depressed or sad; hopeless; or slowed down (Q73a-c). The responses to these three questions were averaged together to create a postpartum depression score for each respondent. Women with scores of greater than 3 were classified as having symptoms of postpartum depression.*

Background

Normal changes during and after pregnancy can cause symptoms similar to those of depression. Many women experience the 'baby blues' in the days following childbirth. They may feel sad; lose interest; have changes in eating, sleeping or energy; have problems thinking or concentrating; or have feelings of worthlessness, shame or guilt. These symptoms typically go away in a few days without treatment, but if they last longer, or get worse, a woman may have postpartum depression (PPD). In addition to the symptoms listed above, women with PPD may feel numb or disconnected from their baby, or have thoughts of hurting themselves or their baby. Untreated PPD can affect a mother's ability to parent and can also affect her baby by causing delays in language development, problems with mother-child bonding, or increased crying. If a woman is worried about the way she is feeling or if the 'baby blues' last more than two weeks, it is important for her to speak with her doctor. In the baby blues' last more than two weeks, it is important for her to speak with her doctor.

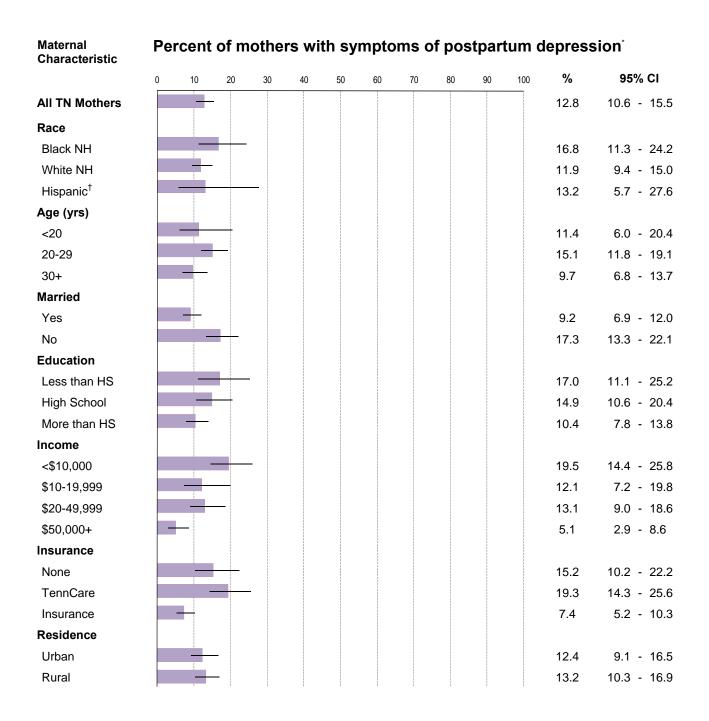
- Overall, 12.8% of women reported symptoms of postpartum depression.
- Unmarried women were more likely to report symptoms of postpartum depression than those who were married.

¹ US Department of Health and Human Services, Office of Women's Health. Fact Sheet - Depression During and After Pregnancy. Accessed July 2011 at http://www.womenshealth.gov/publications/our-publications/fact-sheet/depression-pregnancy.pdf.

² Centers for Disease Control and Prevention, Reproductive Health. *Depression Among Women of Reproductive Age and Postpartum Depression*. Accessed July 2011 at http://www.cdc.gov/reproductivehealth/Depression/index.htm.

^{*}This method for assigning postpartum depression status is based on recently released guidelines from CDC PRAMS, and differs from the method used in earlier PRAMS reports. Therefore, postpartum depression prevalence rates reported here should not be directly compared to prevalence rates in earlier reports.

Postpartum Depression cont.



^{*} The method for assigning postpartum depression status is based on recently released guidelines from CDC PRAMS, and differs from the method used in earlier PRAMS reports. Therefore, postpartum depression prevalence rates reported here should not be directly compared to prevalence rates in earlier reports. † Results for Hispanics based on unweighted sample size of less than 60 – results should be interpreted with caution.

Postpartum Birth Control Use

TN PRAMS asks: Are you or your husband or partner doing anything now to keep from getting pregnant? (Q69). Additional questions ask about reasons for not using birth control (Q70) and birth control methods (Q71).

Background

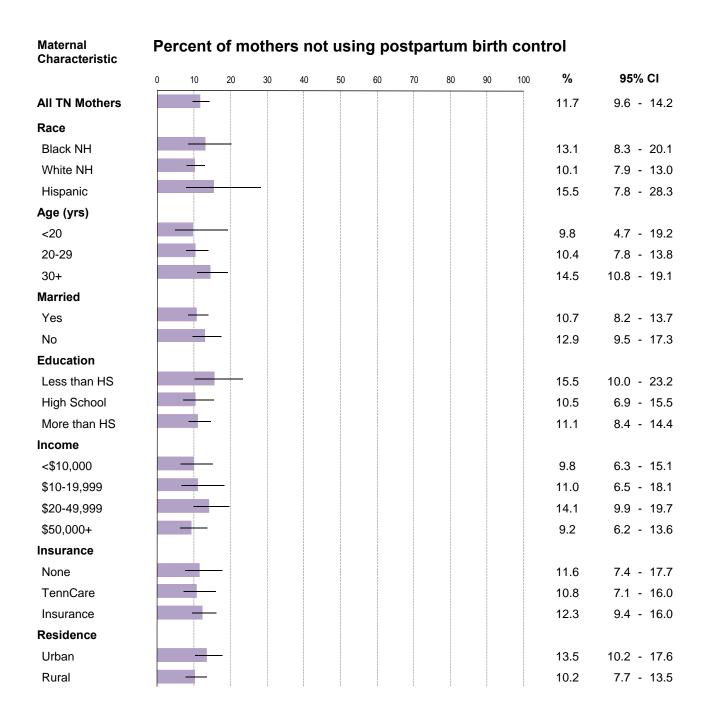
Use of birth control during the postpartum period is important to prevent unintended pregnancies and short birth intervals, both of which can lead to negative health outcomes for mothers and infants. The postpartum period is an important time to initiate birth control because women are accessing the healthcare system and may have increased motivation to avoid another pregnancy. There are safe and effective birth control methods that women can begin at various times after delivery, including immediately postpartum.

- The majority of mothers were using postpartum birth control just 11.7% reported that they were not doing anything to keep from getting pregnant.
- Postpartum birth control use was at least 84% in all demographic and socioeconomic subgroups.

¹ Centers for Disease Control and Prevention. Update to CDC's U.S. Medical Eligibility Criteria for Contraceptive Use, 2010: Revised Recommendations for the Use of Contraceptive Methods During the Postpartum Period. *MMWR* 2011; 60(26):878-883.

² Centers for Disease Control and Prevention. 2002 PRAMS Surveillance Report: Multistate Exhibits, Postpartum Contraceptive Use. Accessed July 2011 at http://www.cdc.gov/PRAMS/2002PRAMSSurvReport/MultiStateExhibits/Multistates18.htm.

Postpartum Birth Control Use cont.



Breastfeeding Initiation Breastfeeding Duration Exclusive Breastfeeding

Breastfeeding Initiation

TN PRAMS asks: 1) Did you ever breastfeed or pump breast milk to feed your new baby after delivery, even for a short period of time? (Q57); and 2) What were your reasons for not breastfeeding your new baby? (Q58).

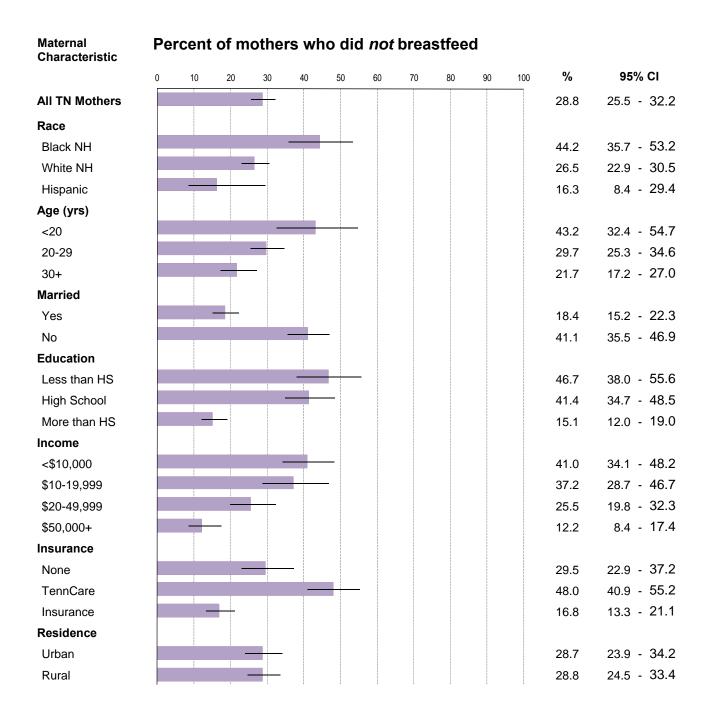
Background

Breastfeeding is generally recognized as the optimum form of nutrition for infants.¹ Breast milk strengthens infant immune systems and decreases the incidence and/or severity of a range of infectious diseases, including respiratory, gastrointestinal and ear infections.¹ Some studies also suggest a reduction in the incidence of diabetes, overweight and obesity, and asthma in older children and adults who were breastfed.¹ In general, exclusive breastfeeding and longer duration of breastfeeding are associated with better maternal health outcomes, and women who breastfeed have a lower risk of breast and ovarian cancer compared to those who have never breastfed.¹ Breastfeeding also has important psychosocial and economic benefits, such as promoting mother-infant bonding and money saved on formula and infant health care costs.¹

- Over one-quarter (28.8%) of mothers did not breastfeed or pump breast milk to feed their new baby.
- Black non-Hispanics were less likely to breastfeed than Hispanics or white non-Hispanics.
- Teens were less likely than older women (30+ years) to breastfeed.
- Unmarried women were less likely than those who were married to breastfeed.
- Compared to women with more than a high school education, those with lower levels of education were less likely to breastfeed.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were less likely to breastfeed.
- Uninsured women and those receiving TennCare were less likely to breastfeed than those with insurance.

¹ U.S. Department of Health and Human Services. The Surgeon General's Call to Action to Support Breastfeeding. Washington, DC. Department of Health and Human Services, Office of the Surgeon General; 2011.

Breastfeeding Initiation cont.



Breastfeeding Duration

TN PRAMS asks: 1) Are you currently breastfeeding or feeding pumped milk to your new baby? (Q59); 2) How many weeks or months did you breastfeed or pump milk to feed your new baby? (Q60); and 3) What were your reasons for stopping breastfeeding? (Q61). All analyses were limited to women who initiated breastfeeding.

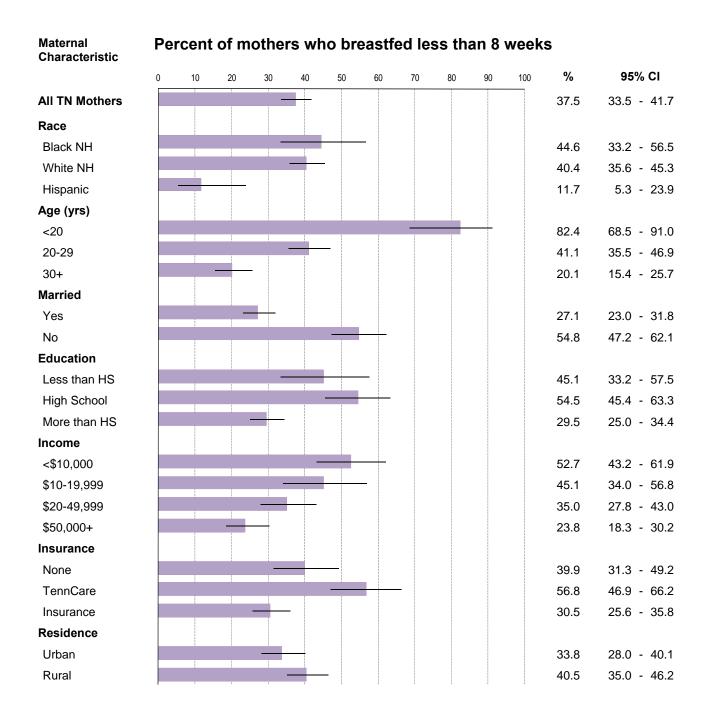
Background

The American Academy of Pediatrics (AAP) recommends that all babies be breastfed exclusively for the first six months of life, and that after solid food is introduced breastfeeding should continue until at least 12 months and as long thereafter as is mutually desired by the mother and child. The AAP also suggests that there is no upper limit to the duration of breastfeeding and no evidence of psychological or developmental harm from breastfeeding into the third year of life or longer. Increased duration of breastfeeding confers significant health and developmental benefits for the child and mother, especially in delaying return to fertility (thereby promoting optimal intervals between births).

- Among women who initiated breastfeeding, approximately one-third (37.5%) breastfed for less than 8 weeks.
- Black and white non-Hispanics were more likely to breastfeed less than 8 weeks than Hispanics.
- The percentage of women who breastfed less than 8 weeks increased with decreasing age.
- Unmarried women were more likely than those who were married to breastfeed less than 8 weeks.

¹ Gartner LM, Morton J, Lawrence RA, et al. Breastfeeding and the Use of Human Breast Milk. *Pediatrics* 2005; 115(2):496-506.

Breastfeeding Duration cont.



Exclusive Breastfeeding

TN PRAMS asks: 1) 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)? (Q62a); and 2) How old was your new baby the first time he or she ate food (such as baby cereal, baby food, or any other food)? (Q62b). All analyses were limited to women who initiated breastfeeding.

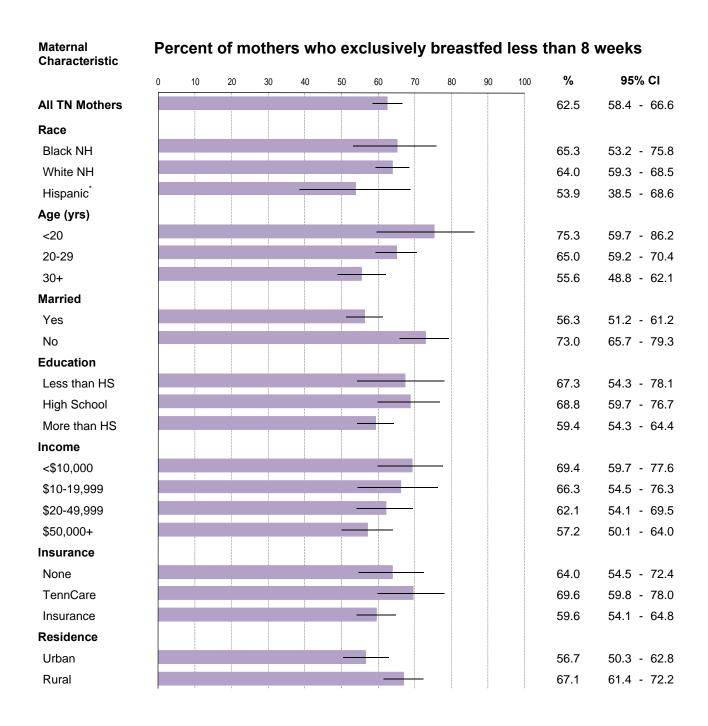
Background

The American Academy of Pediatrics (AAP) recommends that all babies be breastfed exclusively for the first six months of life – that means no supplementation of any type (no water, juice, nonhuman milk, or foods) except for vitamins, minerals and medications. Exclusive breastfeeding is sufficient to support optimal growth and development for the first six months of life, and introducing complimentary foods prior to this age does not increase total caloric intake or growth. Exclusive breastfeeding has been shown to provide improved protection against many diseases and to increase the likelihood of continued breastfeeding for at least the first year of life.

- Among women who initiated breastfeeding, 37.5% reported that they exclusively breastfed for at least 8 weeks. The remaining 62.5% of women introduced other liquids or foods prior to 8 weeks (i.e. breastfed exclusively for less than 8 weeks).
- Unmarried women were less likely to exclusively breastfeed for at least 8 weeks than those who were married.

¹ Gartner LM, Morton J, Lawrence RA, et al. Breastfeeding and the Use of Human Breast Milk. *Pediatrics* 2005; 115(2):496-506.

Exclusive Breastfeeding cont.



^{*} Results for Hispanics based on unweighted sample size of less than 60 - results should be interpreted with caution.

Infant Health Checkups
Sleep Position
Bed Sharing
Secondhand Smoke Exposure
Injury Prevention

Infant Health Checkups

TN PRAMS asks: 1) Was your new baby seen by a doctor, nurse or other health care provider for a one-week checkup after he or she was born? (Q65); and 2) Has your baby had a well-baby checkup? (A well-baby checkup is a regular health visit for your baby usually at 1, 2, 4 and 6 months of age.) (Q61). All analyses were limited to women whose infants were still alive and living with them.

Background

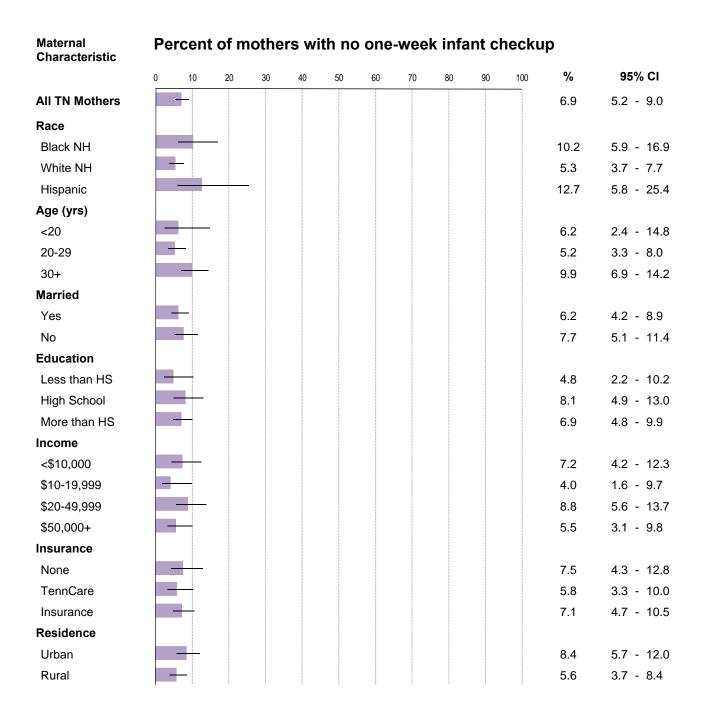
Most babies have their first checkup within the first few days or weeks of birth, and thereafter at least every two months during the first six months of life. The purpose of these early checkups is to make sure a baby is growing and developing properly and has no serious problems. Common parts of any well-baby checkup include: measurement of weight, length and head circumference to assess growth; physical exam; observation of vision, hearing and reflexes; questions about the baby's eating and sleeping habits; general discussions and advice about infant health and safety; and immunizations. Well-baby checkups are an important part of preventive care and recommended for all infants even if they are doing well and are not sick.

- The majority of mothers reported that their baby had both a one-week checkup and at least one well-baby visit just 6.9% reported no one-week checkup and 1.9% reported no well-baby visit.
- With the exception of Hispanics and black non-Hispanics, at least 90% of mothers in all demographic and socioeconomic subgroups reported having a one-week checkup.
- At least 95% of mothers in all demographic and socioeconomic subgroups reported having a well-baby checkup.

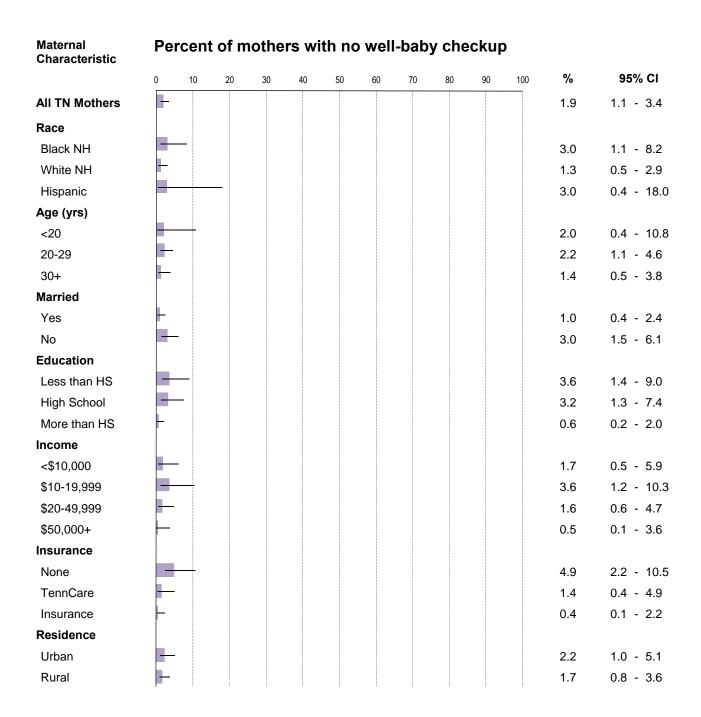
¹ March of Dimes. Well Baby Care. Accessed August 2011 at http://www.marchofdimes.com/baby/wellbabycare.html.

² KidsHealth.org. Medical Care and Your Newborn. Accessed August 2011 at http://kidshealth.org/parent/growth/medical/mednewborn.html.

Infant Health Checkups cont.



Infant Health Checkups cont.



Sleep Position

TN PRAMS asks: In which position do you most often lay your baby to sleep now? (Q63). All analyses were limited to women whose infants were still alive and living with them.

Background

Sudden infant death syndrome (SIDS) is the leading cause of death among Tennessee infants between the ages of one month and one year. Many of these deaths are preventable. Placing a baby on his or her back to sleep can significantly reduce the risk of SIDS – babies should always be placed on their backs to sleep, both at nighttime and for naps. In addition to the back sleeping position, other preventive measures include: placing baby to sleep on a firm surface covered by a fitted sheet; keeping soft objects, toys, bumper pads and loose bedding out of baby's sleep area; keeping baby's sleep area close to, but separate from, where adults sleep; not letting baby overheat during sleep; and avoiding exposure of baby to tobacco smoke. These measures not only reduce the risk of SIDS, but can reduce the risk of other sleep-related deaths as well.

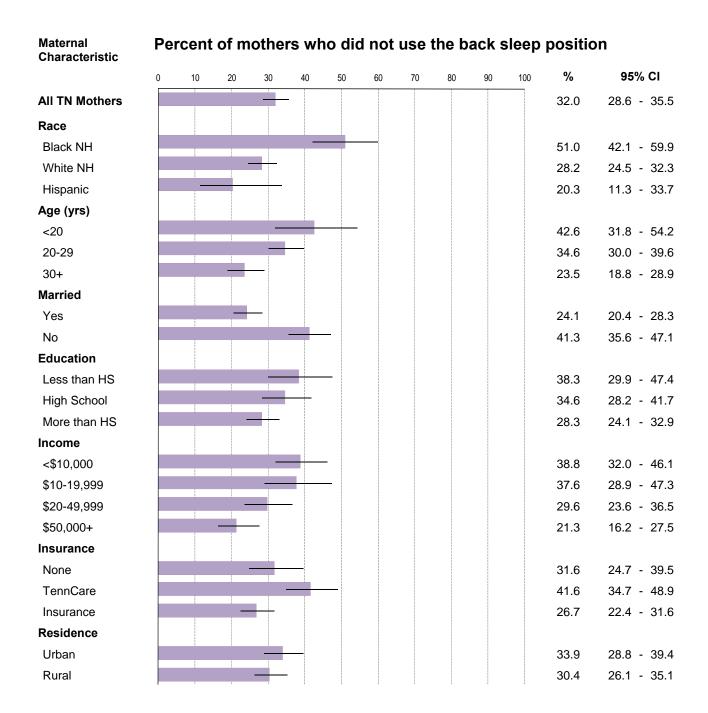
- Almost one-third of women (32.0%) most often used the side, stomach or a mixture of positions to lay their baby to sleep instead of using the back position.
- Black non-Hispanics were less likely than Hispanics or white non-Hispanics to use the back sleep position.
- Teens and younger adults were less likely to place their babies on their backs to sleep than older women (30+ years).
- Unmarried women were less likely to use the back sleep position than those who were married.

¹ Tennessee Department of Health; Division of Health Statistics; Death Statistical System.

² Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH, DHHS. (2005). Safe Sleep for Your Baby: Reduce the Risk of Sudden Infant Death Syndrome (SIDS)--General Outreach (05-7040). Washington, DC: U.S. Government Printing Office.

American Academy of Pediatrics, Task Force on SIDS. SIDS and Other Sleep-Related Deaths: Expansion of Recommendations for a Safe Infant Sleeping Environment. *Pediatrics* 2011; 128(5):1030-1039.

Sleep Position cont.



Bed Sharing

TN PRAMS asks: How often does your new baby sleep in the same bed with you or anyone else? (Q64). Women who reported that their new baby always, often or sometimes slept in the same bed were classified as bed sharing with their infant. All analyses were limited to women whose infants were still alive and living with them.

Background

Accidental suffocation and strangulation is the leading cause of accidental infant deaths in Tennessee, with approximately two-thirds of these deaths occurring in a bed.¹ The American Academy of Pediatrics does not recommend bed sharing between infants and adults, where infants may be suffocated and/or strangled by soft bedding; by an adult rolling on top or against them; or by becoming wedged or trapped between the mattress and headboard, wall or other object.^{2,3} An infant should sleep in the same room as an adult but in their own crib.² This arrangement reduces the risk of suffocation, strangulation and entrapment that can occur when an infant sleeps in the same bed as an adult, and can also reduce the risk of sudden infant death syndrome (SIDS).²

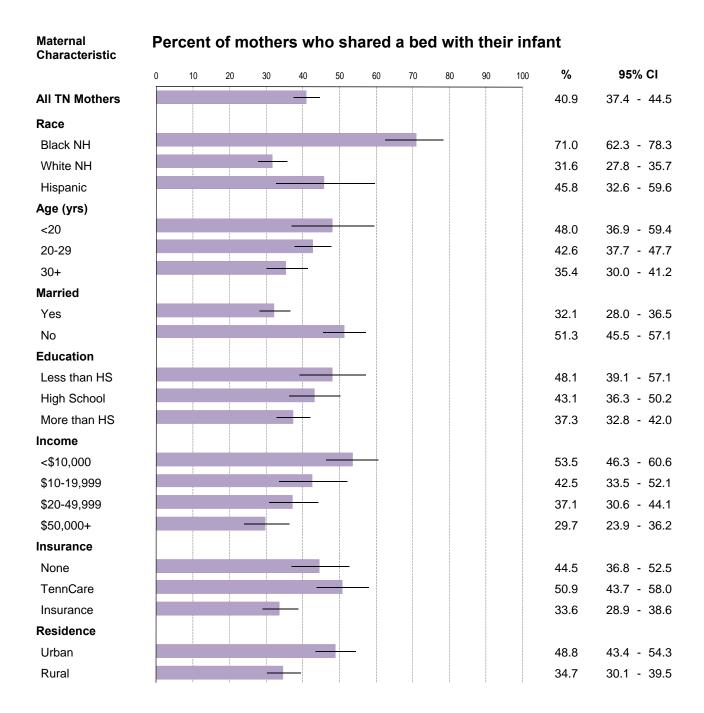
- Approximately two-fifths of mothers (40.9%) often, always or sometimes shared a bed with their infant.
- Black non-Hispanics were over twice as likely as white non-Hispanics to bed share.
- Unmarried women were more likely to bed share than those who were married.
- Women living in urban areas were more likely than those in rural areas to bed share.

¹ Tennessee Department of Health; Division of Health Statistics; Death Statistical System.

² American Academy of Pediatrics, Task Force on SIDS. SIDS and Other Sleep-Related Deaths: Expansion of Recommendations for a Safe Infant Sleeping Environment. *Pediatrics* 2011; 128(5):1030-1039.

³ KidsHealth.org. Cosleeping and Your Baby. Accessed August 2011 at http://kidshealth.org/parent/general/sleep/cosleeping.html.

Bed Sharing cont.



Secondhand Smoke Exposure

TN PRAMS asks: About how many hours a day, on average, is your new baby in the same room or vehicle with someone who is smoking? (Q80). Women who reported that their infant was in the same room or vehicle as a smoker for any amount of time (even less than one hour per day) were classified as having an infant exposed to secondhand smoke. All analyses were limited to women whose infants were still alive and living with them.

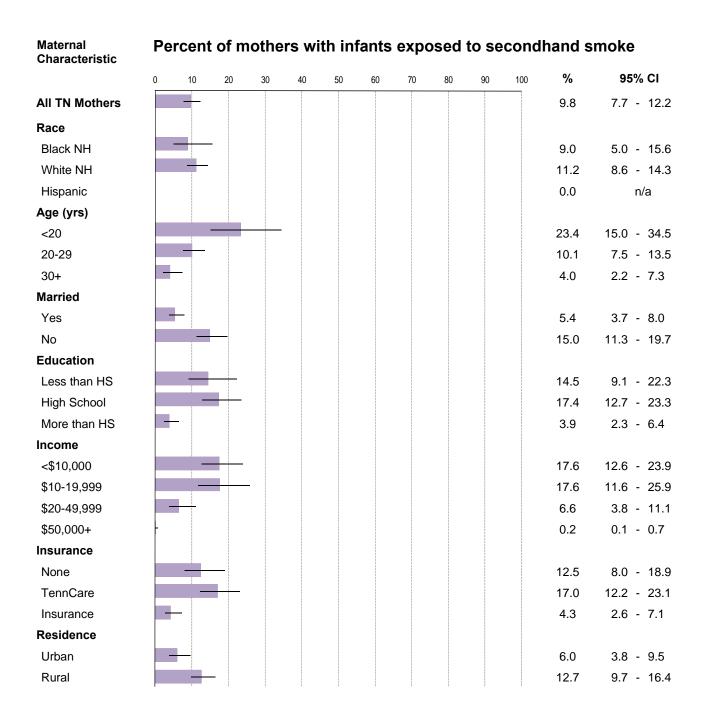
Background

Because their bodies are still developing, infants and children are especially vulnerable to the poisons in secondhand smoke.¹ Both babies whose mothers smoke while pregnant and those who are exposed to secondhand smoke after birth are more likely to die of SIDS than babies not exposed to smoke.¹ They also have weaker lungs and slower lung growth, which increases the risk of many health conditions.¹ Secondhand smoke causes bronchitis and pneumonia among children, increases the risk of ear infections, and can cause children with asthma to experience more frequent and severe attacks.¹ There is no risk-free level of exposure to secondhand smoke for infants, children or adults.¹

- Overall, 9.8% of mothers reported that their infants were exposed to secondhand smoke.
- Teens were more likely to have an infant exposed to secondhand smoke than older women.
- Unmarried women were more likely than those who were married to have an exposed infant.
- Compared to women with more than a high school education, those with lower levels of education were more likely to have an exposed infant.
- Compared to women with household incomes of \$50,000 or more, those with lower incomes were less likely to have an exposed infant.
- Uninsured women and those receiving TennCare were more likely to have an infant exposed to secondhand smoke than those with insurance.
- Women living in rural areas were more likely to have an exposed infant than those in urban areas.

¹ US Department of Health and Human Services. *Children and Secondhand Smoke Exposure. Excerpts from The Health Consequences of Involuntary Exposure to Tobacco Smoke: A Report of the Surgeon General.* Atlanta, GA: USDHHS, CDC, Coordinating Center for Health Promotion, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2007.

Secondhand Smoke Exposure cont.



Injury Prevention

TN PRAMS asks women whether or not certain statements regarding infant safety apply to them (Q78a-d). Specifically, women are asked about car seat use, smoke alarms in the home and loaded firearms in the home. All analyses were limited to women whose infants were still alive and living with them.

Background

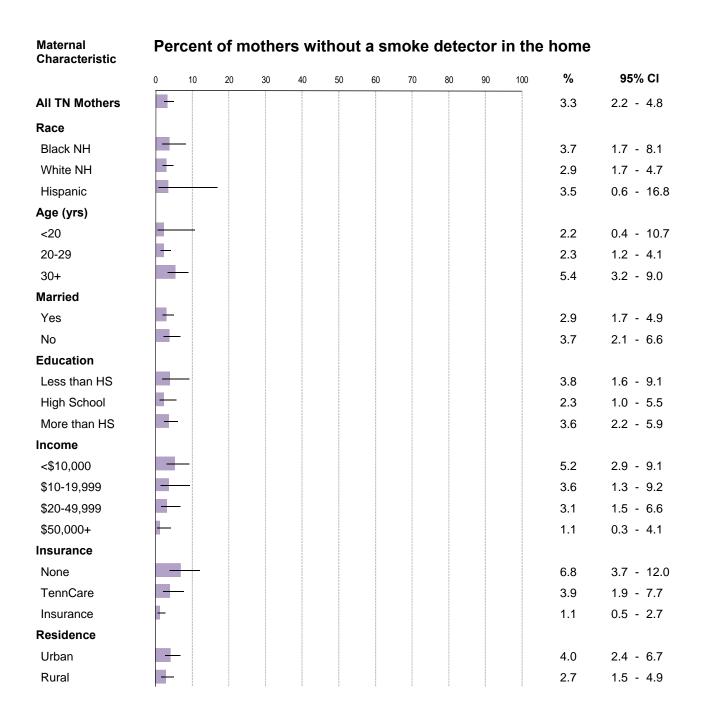
Although largely preventable, unintentional injuries are a major cause of morbidity and mortality among children and adolescents, and are the fourth leading cause of infant mortality in Tennessee. However, there are many steps parents can take to provide a safe environment for their babies and avoid these injuries. These steps include always using an appropriate and properly installed child safety seat when traveling by car; installing smoke alarms on every level of the home and in every bedroom; and storing guns unloaded, in a locked case and with the ammunition kept separately. The American Academy of Pediatrics provides extensive information on these and other infant safety topics at their Healthy Children website.

- Almost all mothers (over 99%) reported using a car seat to bring their infant home from the hospital
 and always or almost always using an infant car seat.
- Approximately 3% of women did not have a working smoke alarm in the home.
 - o Less than 7% of women in all demographic and socioeconomic subgroups lacked a smoke alarm in their home.
- Approximately 10% of women had a loaded gun, rifle or other firearm in the home.
 - o White non-Hispanics were more likely than black non-Hispanics to have a loaded gun.
 - o Married women were more likely to have a loaded gun than those who were unmarried.

¹ Borse NN, Gilchrist J, Dellinger AM, et al. CDC Childhood Injury Report: Patterns of Unintentional Injuries among 0 -19 Year Olds in the United States, 2000-2006. Atlanta (GA): Centers for Disease Control and Prevention, National Center for Injury Prevention and Control; 2008.

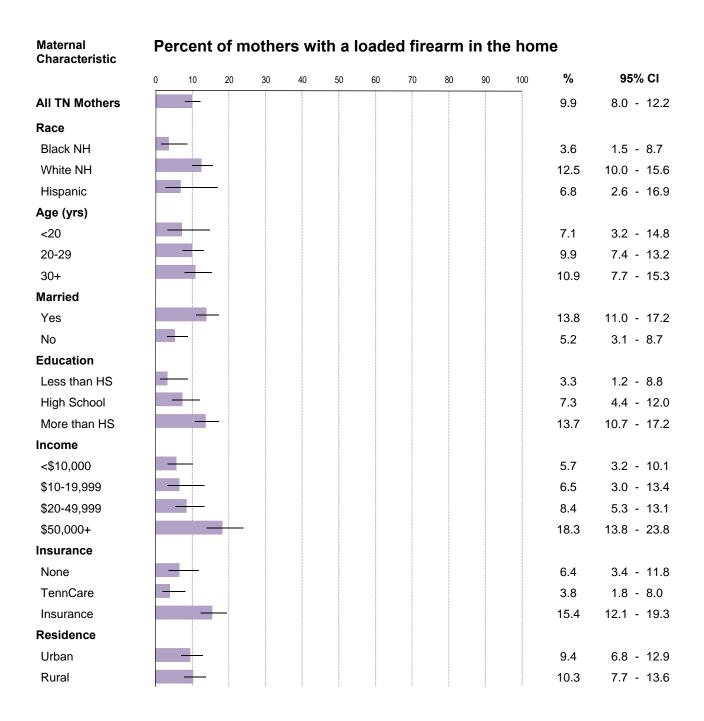
² American Academy of Pediatrics Healthy Children Safety and Prevention website. Accessed August 2011 at http://www.healthychildren.org/English/safety-prevention/Pages/default.aspx.

Injury Prevention cont.



Infant Health and Safety

Injury Prevention cont.



Appendix

2010 TN PRAMS Questionnaire

PRAMS

Tennessee Pregnancy Risk Assessment Monitoring System

A Survey of the Health of Mothers and Babies in Tennessee

> For further information, please call toll-free 1-877-984-8662





Tennessee Department of Health
Office of Policy, Planning and Assessment
425 5th Avenue North, 4th Floor
Nashville, Tennessee 37243



Please mark your answers. Follow the directions included with the questions. If no directions are presented, check the box next to your answer or fill in the blanks. Because not all questions will apply to everyone, you may be asked to skip certain questions.

BEFORE PREGNANCY

First, we would like to ask a few questions about *you* and the time <u>before</u> you got pregnant with your new baby.

1. At any time during the 12 months before you got pregnant with your new baby, did you do any of the following things? For each item, circle Y (Yes) if you did it or circle N (No) if you did not.

	No	Ye
a. I was dieting (changing my eating		
habits) to lose weight	N	Y
b. I was exercising 3 or more days		
of the week	N	Y
c. I was regularly taking prescription		
medicines other than birth control .	N	Y
d. I visited a health care worker to		
be checked or treated for diabetes	N	Y
e. I visited a health care worker to		
be checked or treated for high		
blood pressure	N	Y
f. I visited a health care worker to		
be checked or treated for depression		
or anxiety	N	Y
g. I talked to a health care worker		
about my family medical history	N	Y
h. I had my teeth cleaned by a dentist		
or dental hygienist	N	Y

		n your new baby, w of these health inst	
			Check all that apply
[[[[paid for (not from a Medicaid TRICARE or other TennCare CoverKids CoverTN	usband, partner, or at you or someone else
[I did not have any h I got pregnant	nealth insurance before
,	with weel	ring the <i>month befor</i> n your new baby, ho k did you take a m natal vitamin, or a	ultivitamin, a
[I didn't take a multivitamin, or folic aci 1 to 3 times a week 4 to 6 times a week Every day of the we	id vitamin at all
		t before you got pre y, how much did yo Pounds OR	egnant with your new ou weigh? Kilos
5.	Hov	v tall are you witho	out shoes?
			hes

2. During the month before you got pregnant

	What is your date of birth?	12. Was the baby <i>just before</i> your new one born <i>more</i> than 3 weeks before his or her due
	/ / 19	date?
	Month Day Year	□ No □ Yes
7.	Would you say that, in general, your health is—	13. When your new baby was born, how old was
	□ Excellent□ Very good□ Good□ Fair□ Poor	the child born just before your new baby? 0 to 12 months 13 to 18 months 19 to 24 months More than 2 years but less than 3 years 3 to 5 years
8.	Before you got pregnant with your new baby, did a doctor, nurse, or other health care worker talk with you about how to prepare for a healthy pregnancy and baby?	☐ More than 5 years The next questions are about the time when you got pregnant with your new baby.
	□ No	
	☐ Yes	14. Thinking back to <i>just before</i> you got pregnant with your <i>new</i> baby, how did you
9.	Before you got pregnant with your new	feel about becoming pregnant?
	baby, were you ever told by a doctor, nurse,	Check <u>one</u> answer
	or other health care worker that you had	
	Type 1 or Type 2 diabetes? This is <u>not</u> the same as gestational diabetes or diabetes that starts during pregnancy.	☐ I wanted to be pregnant sooner☐ I wanted to be pregnant later☐ I wanted to be pregnant then☐
	Type 1 or Type 2 diabetes? This is <u>not</u> the same as gestational diabetes or diabetes that	
10.	Type 1 or Type 2 diabetes? This is <u>not</u> the same as gestational diabetes or diabetes that starts during pregnancy. No Yes Before you got pregnant with your new	☐ I wanted to be pregnant later☐ I wanted to be pregnant then☐ I didn't want to be pregnant then
10.	Type 1 or Type 2 diabetes? This is <u>not</u> the same as gestational diabetes or diabetes that starts during pregnancy. No Yes	☐ I wanted to be pregnant later ☐ I wanted to be pregnant then ☐ I didn't want to be pregnant then or at any time in the future If you wanted to be pregnant later, answer Question 15. Otherwise, go to Question 16.
10.	Type 1 or Type 2 diabetes? This is <u>not</u> the same as gestational diabetes or diabetes that starts during pregnancy. No Yes Before you got pregnant with your new baby, did you ever have any other babies	☐ I wanted to be pregnant later ☐ I wanted to be pregnant then ☐ I didn't want to be pregnant then or at any time in the future If you wanted to be pregnant later, answer
10.	Type 1 or Type 2 diabetes? This is not the same as gestational diabetes or diabetes that starts during pregnancy. No Yes Before you got pregnant with your new baby, did you ever have any other babies who were born alive?	☐ I wanted to be pregnant later ☐ I wanted to be pregnant then ☐ I didn't want to be pregnant then or at any time in the future If you wanted to be pregnant later, answer Question 15. Otherwise, go to Question 16. 15. How much later did you want to become pregnant? ☐ Less than 1 year
10. ¥ 111.	Type 1 or Type 2 diabetes? This is <u>not</u> the same as gestational diabetes or diabetes that starts during pregnancy. □ No □ Yes Before you got pregnant with your new baby, did you ever have any other babies who were born alive? □ No — Go to Question 14	☐ I wanted to be pregnant later ☐ I wanted to be pregnant then ☐ I didn't want to be pregnant then or at any time in the future If you wanted to be pregnant later, answer Question 15. Otherwise, go to Question 16. 15. How much later did you want to become pregnant?

16.	When you got pregnant with your new baby, were you trying to get pregnant?	19.	hat were you or	nant with your new baby, your husband or partner n getting pregnant?
	No ☐ Yes —— Go to Page 4, Question 20		mg to neep iron	Check <u>all</u> that apply
† 17.	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.)		Vasectomy (m Pill Condoms Injection once (Depo-Provera Contraceptive Contraceptive	implant (Implanon [®]) patch (OrthoEvra [®]) ervical cap, or sponge NuvaRing [®])
18.	No Yes Go to Question 19 What were your reasons or your husband's or partner's reasons for not doing anything to keep from getting pregnant?		Rhythm method planning Withdrawal (p Not having see Emergency co (The "morning	od or natural family ulling out) x (abstinence) ntraception
	Check <u>all</u> that apply			7 2 2000 0012 001
do	☐ I didn't mind if I got pregnant ☐ I thought I could not get pregnant at that time ☐ I had side effects from the birth control method I was using ☐ I had problems getting birth control when I needed it ☐ I thought my husband or partner or I was sterile (could not get pregnant at all) ☐ My husband or partner didn't want to use anything ☐ Other → Please tell us: you or your husband or partner was not ping anything to keep from getting pregnant, the Please 4 Overetter 20.			
do	2 2			

DURING PREGNANCY

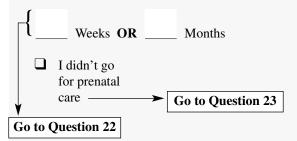
The next questions are about the prenatal care you received during your most recent pregnancy. Prenatal care includes visits to a doctor, nurse, or other health care worker before your baby was born to get checkups and advice about pregnancy. (It may help to look at the calendar when you answer these questions.)

20. 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.)

____ Weeks OR ____ Months

☐ I don't remember

21. How many weeks or months pregnant were you when you had your first visit for prenatal care? Do not count a visit that was only for a pregnancy test or only for WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children).



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

	No		
	Yes —	-	Go to Question 24
₩			

23. Did any of these things keep you from getting prenatal care at all or as early as you wanted? For each item, circle T (True) if it was a reason that you didn't get prenatal care when you wanted or circle F (False) if it was not a reason for you or if something does not apply to you.

	True	False
a.	I couldn't get an appointment	
	when I wanted one T	F
b.	I didn't have enough money or	
	insurance to pay for my visits T	F
c.	I had no transportation to get to	
	the clinic or doctor's office T	F
d.	The doctor or my health plan	
	would not start care as early	
	as I wanted	F
e.	I had too many other things	
	going on	F
f.	I couldn't take time off from work	
	or schoolT	F
g.	I didn't have my Tenncare/	
	CoverKids/CoverTN/	
	Medicaid cardT	F
h.	I had no one to take care of my	
	childrenT	F
i.	I didn't know that I was pregnant T	F
j.	I didn't want anyone else to know	
	I was pregnant T	F
k.	I didn't want prenatal care T	F

If you did not go for prenatal care, go to Page 6, Question 26.

24.	l any of these health ı pay for your <i>prena</i>	insurance plans help tal care?
		Check <u>all</u> that apply
	paid for (not from a Medicaid TRICARE or other TennCare CoverKids CoverTN	asband, partner, or at you or someone else job)
	I did not have health for my prenatal care	n insurance to help pay

25.	25. During any of your prenatal care visits, did a doctor, nurse, or other health care work		
	talk with you about any of the things listed		
	below? Please count only discussions, not		
	reading materials or videos. For each item,		
	circle Y (Yes) if someone talked with you		
	about it or circle N (No) if no one talked with		
	you about it.		

	No	Yes
a.	How smoking during pregnancy	
	could affect my babyN	Y
b.	Breastfeeding my baby N	Y
c.	How drinking alcohol during	
	pregnancy could affect my babyN	Y
d.	Using a seat belt during my	
	pregnancy N	Y
e.	Medicines that are safe to take	
	during my pregnancy N	Y
f.	How using illegal drugs could	
	affect my babyN	Y
g.	Doing tests to screen for birth defects	
	or diseases that run in my family N	Y
h.	The signs and symptoms of preterm	
	labor (labor more than 3 weeks before	
	the baby is due)N	Y
i.	What to do if my labor starts early N	Y
j.	Getting tested for HIV (the virus	
	that causes AIDS) N	Y
k.	What to do if I feel depressed during	
	my pregnancy or after my baby	
	is born	Y
1.	Physical abuse to women by their	
	husbands or partners N	Y

26.	At any time during your most recent pregnancy or delivery, did you have a test for HIV (the virus that causes AIDS)?	31.	During your most recent pregnancy, were you on WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children)?
	On the Property of the Proper		□ No □ Yes
27.	Were you offered an HIV test during your most recent pregnancy or delivery? No	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	
	☐ Yes		pregnancy)?
28.	Have you ever heard or read that taking a vitamin with folic acid can help prevent		□ No □ Yes
	some birth defects? ☐ No————————————————————————————————————	33.	Did you have any of the following problems during <i>your most recent pregnancy?</i> For each item, circle Y (Yes) if you had the problem or circle N (No) if you did not.
29.	Have you ever heard about folic acid from any of the following? Check <u>all</u> that apply	a. b.	Vaginal bleeding Y Kidney or bladder (urinary tract) infection
	☐ Magazine or newspaper article☐ Radio or television	c. d.	Severe nausea, vomiting, or dehydration
	□ Doctor, nurse, or other health care worker □ Book □ Family or friends □ Other → Please tell us:	e.	(cerclage for incompetent cervix)N Y High blood pressure, hypertension (including pregnancy-induced hypertension [PIH]), preeclampsia,
		f.	or toxemia
30.	Did you get a flu vaccination during your	g.	abruptio placentae or placenta previa) N Y Labor pains more than 3 weeks before my baby was due (preterm
	most recent pregnancy? □ No	h.	or early labor)
	☐ Yes		before my baby was due (premature rupture of membranes [PROM])N Y
		i. j.	I had to have a blood transfusion \dots N Y I was hurt in a car accident \dots N Y

The next questions are about smoking cigarettes around the time of pregnancy (before, during, and after).	37. How many cigarettes do you smoke on an average day now? (A pack has 20 cigarettes.)41 cigarettes or more
34. Have you smoked any cigarettes in the past 2 years? Go to Question 38 Yes	21 to 40 cigarettes 11 to 20 cigarettes 6 to 10 cigarettes 1 to 5 cigarettes Less than 1 cigarette I don't smoke now
35. In the 3 months before you got pregnant, how many cigarettes did you smoke on an average day? (A pack has 20 cigarettes.)	38. Which of the following statements best describes the rules about smoking <i>inside</i> your home <i>now</i> ?
 ↓ 41 cigarettes or more ↓ 21 to 40 cigarettes ↓ 11 to 20 cigarettes ↓ 6 to 10 cigarettes ↓ 1 to 5 cigarettes ↓ Less than 1 cigarette ↓ I didn't smoke then 	Check one answer ☐ No one is allowed to smoke anywhere inside my home ☐ Smoking is allowed in some rooms or at some times ☐ Smoking is permitted anywhere inside my home
36. In the <u>last 3</u> months of your pregnancy, how many cigarettes did you smoke on an average day? (A pack has 20 cigarettes.)	The next questions are about drinking alcohol around the time of pregnancy (before, during, and after).
☐ 41 cigarettes or more ☐ 21 to 40 cigarettes ☐ 11 to 20 cigarettes ☐ 6 to 10 cigarettes ☐ 1 to 5 cigarettes ☐ Less than 1 cigarette ☐ I didn't smoke then	39. 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. Go to Page 8, Question 42 Go to Page 8, Question 40a

40a. During the 3 months before you got pregnant, how many alcoholic drinks did you have in an average week?	Pregnancy can be a difficult time for some women. The next questions are about things that may have happened <u>before</u> and
14 drinks or more a week 7 to 13 drinks a week 4 to 6 drinks a week 1 to 3 drinks a week Less than 1 drink a week I didn't drink then Go to Question 41a	 42. This question is about things that may have happened during the 12 months before your new baby was born. For each item, circle Y (Yes) if it happened to you or circle N (No) if it did not. (It may help to look at the calendar when you answer these questions.)
 40b. 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. □ 6 or more times □ 4 to 5 times □ 2 to 3 times □ 1 time □ I didn't have 4 drinks or more in 1 sitting 	a. A close family member was very sick and had to go into the hospital N Y b. I got separated or divorced from my husband or partner N Y c. I moved to a new address N Y d. I was homeless N Y e. My husband or partner lost his job N Y f. I lost my job even though I wanted to go on working N Y
41a. During the <u>last 3 months</u> of your pregnancy, how many alcoholic drinks did you have in an average week?	g. I argued with my husband or partner more than usual
14 drinks or more a week 7 to 13 drinks a week 4 to 6 drinks a week 1 to 3 drinks a week Less than 1 drink a week I didn't drink then — Go to Question 42	didn't want me to be pregnant N Y i. I had a lot of bills I couldn't pay N Y j. I was in a physical fight N Y k. My husband or partner or I went to jail N Y l. Someone very close to me had a problem with drinking or drugs N Y
41b. 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.	 m. Someone very close to me died N Y 43. During the 12 months before your new baby was born, did you ever eat less than you felt you should because there wasn't enough money to buy food?
☐ 6 or more times ☐ 4 to 5 times ☐ 2 to 3 times ☐ 1 time ☐ I didn't have 4 drinks or more in 1 sitting	No Yes

44.	During the 12 months before your new baby was born, how often did you feel unsafe in the neighborhood where you lived?	The next questions are about your labor and delivery. (It may help to look at the calendar when you answer these questions.)		
	☐ Always ☐ Often ☐ Sometimes ☐ Rarely ☐ Never		When was your baby due? \[\sum_{\text{Month}} \setminus \frac{20}{\text{Year}} \]	
45.	During the 12 months before your new baby was born, did you feel emotionally upset (for example, angry, sad, or frustrated) as a result of how you were treated based on your race?	49.	When did you go into the hospital to have your baby? / / / 20 Year Year Year	
	□ No □ Yes		Month Day Year ☐ I didn't have my baby in a hospital	
46.	During the 12 months before you got pregnant with your new baby, did your husband or partner push, hit, slap, kick, choke, or physically hurt you in any other way?		50. When was your baby born?	
	□ No □ Yes		When were you discharged from the hospital after your baby was born?	
47.	During your most recent pregnancy, did your husband or partner push, hit, slap, kick, choke, or physically hurt you in any other way? No Yes		Month Day Year I didn't have my baby in a hospital	

	ealth insurance plans help	55. Is your baby alive now?		
you pay for the aet	Check <u>all</u> that apply	☐ No —— Go to Page 12, Question 69 ☐ Yes		
or the job of you parents Health insurance paid for (not from the management) Medicaid TRICARE or oou TennCare CoverKids CoverTN	the from your job ur husband, partner, or the that you or someone else om a job) ther military health care Please tell us:	56. Is your baby living with you now? No Fo to Page 12, Question 69 Yes 57. Did you ever breastfeed or pump breast milk to feed your new baby after delivery, even for a short period of time? No Fo Yes Go to Question 59 58. What were your reasons for not		
I did not have h pay for my deli	ealth insurance to help very	breastfeeding your new baby? Check all that apply		
AFTER PREGNANCY The next questions are about the time since your new baby was born.		 My baby was sick and was not able to breastfeed I was sick or on medicine I had other children to take care of I had too many household duties 		
53. After your baby war put in an intensive		☐ I didn't like breastfeeding☐ I tried but it was too hard		
☐ No ☐ Yes ☐ I don't know		☐ I didn't want to ☐ I was embarrassed to breastfeed ☐ I went back to work or school ☐ I wanted my body back to myself ☐ Other → Please tell us:		
54. After your baby wa or she stay in the h	as born, how long did he ospital?			
24 to 48 hours (3 to 5 days 6 to 14 days More than 14 d	ays ot born in a hospital	If you did not breastfeed your new baby, go to Question 62b. 59. Are you currently breastfeeding or feeding pumped milk to your new baby? No		
Go to Question 55		Yes → Go to Question 62a Go to Ouestion 60		

60.	How many weeks or months did you breastfeed or pump milk to feed your baby?	62b. How old was your new baby the first time he or she ate food (such as baby cereal, baby food, or any other food)?		
61.	Weeks OR Months ☐ Less than 1 week What were your reasons for stopping breastfeeding?	Weeks OR Months ☐ My baby was less than 1 week old ☐ My baby has not eaten any foods		
	Check <u>all</u> that apply	If your baby is still in the hospital, go to Page 12, Question 67. 63. In which <i>one</i> position do you <i>most often</i> lay your baby down to sleep now?		
	 My baby had difficulty latching or nursing Breast milk alone did not satisfy my baby I thought my baby was not gaining 			
	enough weight	Check one answer		
	 My nipples were sore, cracked, or bleeding It was too hard, painful, or too time consuming 	 □ On his or her side □ On his or her back □ On his or her stomach 		
	☐ I thought I was not producing enough milk ☐ I had too many other household duties ☐ I fall it was the right time to the	64. How often does your new baby sleep in the same bed with you or anyone else?		
	 ☐ I felt it was the right time to stop breastfeeding ☐ I got sick and was not able to breastfeed ☐ I went back to work or school ☐ My baby was jaundiced (yellowing of the skin or whites of the eyes) 	☐ Always ☐ Often ☐ Sometimes ☐ Rarely ☐ Never		
	Other — Please tell us:	65. Was your new baby seen by a doctor, nurse, or other health care worker for a <i>one week check-up</i> after he or she was born?		
62a	. 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	□ No □ Yes		
	cow's milk)? Weeks OR Months	66. Has your new baby had a well-baby checkup? (A well-baby checkup is a regular health visit for your baby usually at 1, 2, 4, and 6 months of age.)		
	☐ My baby was less than 1 week old☐ My baby has not had any liquids other than breast milk	□ No □ Yes		

67.	. Do you have health insurance, Medicaid, TennCare, CoverKids, or CoverTN for your new baby?			70. What are your reasons or your husband's or partner's reasons for not doing anything to keep from getting pregnant now?		
68.		No Yes	Go to Question 69 plan is your new		I am not having sex I want to get pregna I don't want to use	ant birth control
	Check all that apply ☐ Health insurance from your job or the job of your husband, partner, or parents ☐ Health insurance that you or someone else paid for (not from a job) ☐ Medicaid ☐ TRICARE or other military health care ☐ TennCare ☐ CoverKids		If you anyth	My husband or partner doesn't want to use anything I don't think I can get pregnant (sterile) I can't pay for birth control I am pregnant now Other Please tell us or your husband or partner is not doi ing to keep from getting pregnant now Question 72.		
			Please tell us:	hus	sband or partner us ting pregnant?	introl are you or your ing now to keep from Check all that apply d (female sterilization)
69.	9. 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.) No Yes Go to Question 71			 □ Pill □ Condoms □ Injection once every (Depo-Provera[®]) □ Contraceptive impla □ Contraceptive patch □ Diaphragm, cervical □ Vaginal ring (NuvaR □ IUD (including Mire □ Rhythm method or n planning 	y 3 months ant (Implanon [®]) n (OrthoEvra [®]) nl cap, or sponge Ring [®]) rena [®]) natural family	
G	o to (Question 70	Go to Question /1		Emergency contrac (The "morning-afte	eption

72. Since your new baby was born, have you had a postpartum checkup for yourself? (A postpartum checkup is the regular checkup a woman has about 6 weeks after she gives	75. Which of the following statements best describes you during the <i>3 months before</i> you got pregnant with your new baby?
birth.)	Check one answer
□ No □ Yes	 I was trying to get pregnant I was trying to keep from getting pregnant but was not trying very hard I was trying hard to keep from getting
73. Below is a list of feelings and experiences that women sometimes have after childbirth. Read each item to determine	pregnant
how well it describes your feelings and experiences. Then, write on the line the number of the choice that best describes	76. Did you use any of these drugs when you were pregnant? For each item, circle Y (Yes) if you used it or circle N (No) if you did not.
how often you have felt or experienced things this way since your new baby was born. Use the scale when answering:	a. Prescription drugs
1 2 3 4 5 Never Rarely Sometimes Often Always	
a. I felt down, depressed, or sad	 b. Marijuana (pot, bud) or Hashish (Hash) N Y c. Amphetamines (uppers, ice, speed,
b. I felt hopeless	crystal meth, crank)
OTHER EXPERIENCES	(smack, horse)
The next questions are on a variety of topics.	dust, ecstasy)
74. During the <i>3 months before</i> you got pregnant with your new baby, how often did you participate in any physical activities or exercise for 30 minutes or more? (For	77. This question is about the care of your teeth during your most recent pregnancy. For each item, circle Y (Yes) if it is true or circle N (No) if it is not true.
example, walking for exercise, swimming, cycling, dancing, or gardening.)	No Yes a. I needed to see a dentist for
☐ Less than 1 day per week ☐ 1 to 2 days per week ☐ 2 to 4 by	a problem
 □ 3 to 4 days per week □ 5 or more days per week □ I was told by a doctor, nurse, or other health care worker not to exercise 	talked with me about how to care for my teeth and gums

If your baby is not alive or is not living with you, go to Question 81.

78.	Listed below are some statements about safety. For each thing, circle Y (Yes) if it applies to you or circle N (No) if it does not.			
	No Yes			
a.	My baby was brought home from the hospital in an infant car seat N Y			
b.	My baby always or almost always rides in an infant car seat Y			
c.	My home has a working smoke alarm Y			
d.	There are loaded guns, rifles, or other firearms in my home N Y			
79.	When your new baby rides in a car, truck, or van, how often does he or she ride in an infant car seat?			
	☐ Always ☐ Often ☐ Sometimes ☐ Rarely ☐ Never	83		
80.	About how many hours a day, on average, is your new baby in the same room or vehicle with someone who is smoking?	84		
	Hours Less than 1 hour a day My baby is never in the same room or vehicle with someone who is smoking	04		
81.	Are you currently in school or working outside the home?			
	□ No, I don't work or go to school□ No, I'm on maternity leave, but plan to			
	return to work Yes			

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

02			
82.	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. (All information will be kept private and will not affect any services you are now getting.)		
	□ Less than \$8,000 □ \$8,000 to \$9,999 □ \$10,000 to \$14,999 □ \$15,000 to \$19,999 □ \$20,000 to \$24,999 □ \$25,000 to \$34,999 □ \$35,000 to \$49,999 □ \$50,000 or more		
83.	During the 12 months before your new baby was born, how many people, including yourself, depended on this income?		
	People		
84.	What is today's date?		
	$\frac{1}{\text{Month}} / \frac{1}{\text{Day}} / \frac{20}{\text{Year}}$		

Please use this space for any additional comments you would like to make about the health of mothers and babies in Tennessee.

Thanks for answering our questions!

Your answers will help us work to make Tennessee mothers and babies healthier.