Findings from the Massachusetts Pregnancy Risk Assessment Monitoring System (PRAMS) 2019-2021

Massachusetts Department of Public Health Bureau of Family Health and Nutrition Division of Maternal and Child Health Research and Analysis July 2023 (revised February 2024)

Findings from the Massachusetts PRAMS 2019-2021

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Massachusetts Department of Public Health

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Most importantly, our thanks go to all the parents who completed the 2019-2021 Massachusetts PRAMS surveys which led to this report.

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The Massachusetts Department of Public Health recognizes that families come in many forms. The PRAMS report is specifically about experiences related to pregnancy and the perinatal period. This report uses gender-neutral language wherever possible, like "pregnant person," "birthing person," and "respondent," as not everyone who gives birth identifies as a woman, female, or a mother. We use the term "partner" to talk about another person who is co-parenting with respondents. The term "father" is included in one question written by the CDC and specifically refers to the person whose sperm was involved in conception. MA PRAMS strives to include the voices of all people who experience pregnancy in Massachusetts.

The contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention.

Introduction

This report contains data from the 2019-2021 Massachusetts Pregnancy Risk Assessment Monitoring System (MA PRAMS) survey, MA PRAMS is a collaborative surveillance project between the Centers for Disease Control and Prevention (CDC) and the Massachusetts Department of Public Health (MDPH). PRAMS collects state-specific, population-based data on parental attitudes and experiences before, during, and shortly after pregnancy. In addition, PRAMS provides unique data on racism, mental health, family medical leave, disability status, and social supports. MA PRAMS oversamples by race and Hispanic ethnicity to ensure adequate representation of birth parents from racially and ethnically diverse backgrounds and the survey is conducted in English and Spanish. Findings from MA PRAMS survey are used to assess the health of birth parents and infants across the state and to inform program monitoring, maternal and child health research and evaluation, and policy development. PRAMS data are also used to inform the Title V Maternal and Child Health (MCH) needs assessment, measure progress on national and state MCH performance measures, increase visibility of MCH issues, justify and support allocation of resources, and build state data capacity. The Title V program is a federal-state partnership between the Health Resources and Services Administration and state health departments and plays a key role in the provision of MCH services in Massachusetts.

PRAMS is conducted annually with monthly samples collected throughout the year from January to December. As the survey was already in the field when the COVID-19 pandemic began in spring 2020, Massachusetts did not add COVID-related items to the PRAMS questionnaire itself. However, the state began collecting data specific to COVID-19 through a supplemental survey in October 2020. An additional supplement on COVID-19 vaccination was included in 2021, and results from both supplements will be available in fall 2023. Details of CDC PRAMS methodology are available from CDC here.

Data collected through MA PRAMS enable MDPH to provide estimates of a variety of risk factors, preventive behaviors, perinatal conditions, and emerging public health issues for the Massachusetts birthing population by demographic and socioeconomic characteristics (race and Hispanic ethnicity, age, education, federal poverty level, nativity, marital status, and disability status). These analyses highlight inequities in health within and across population sub-groups. In interpreting these results, it is critical to recognize that the social, economic, behavioral, and physical factors experienced by pregnant and postpartum people where they live and work have a profound impact on their health. Disparities in outcomes by race, for example, are much more often due to inequities in social factors and the perpetuation of racial discrimination than biological causes. The social determinants of health (SDoH) are rooted in systems—and therefore— public health action must be directed at systems change to reduce and prevent health inequities.

In 2019, MA PRAMS sampled a total of 2,947 birth parents with 1,697 responses. In 2020, a total of 2,492 birth parents were sampled with 1,400 responses and in 2021, a total of 2,501 were sampled with 1,321 responses, resulting in weighted response rates of 61%, 60% and 61% respectively. MA PRAMS has consistently met or exceeded the CDC PRAMS response rate threshold, which was 50% for 2019-2021. For prior PRAMS reports, we have historically combined data over multiple years. However, due to the unprecedented challenges of COVID-19 we have presented this report's data by individual year, with additional data in the <u>Appendix</u>.

Highlights of the data

The Impact of Racism on Stress

Massachusetts was the first state to include racism-related questions in its PRAMS survey. This is a significant advancement as other current state and national data systems lack the ability to highlight the drivers of inequity across populations. MA PRAMS data on experiences of racism were used to inform the <u>Special Legislative Commission on Racial Inequities in</u> <u>Maternal Health</u>, created by a legislative act signed by former Governor Charlie Baker in January 2021. MA PRAMS data allow MDPH to understand how the impact of racism, discrimination, and stigma contribute to the adverse outcomes experienced among Black and Brown people and help MDPH take a data-driven approach to address inequities in health outcomes. In 2021, Black non-Hispanic respondents were more than 16 times as likely to report feeling upset due to treatment based on their racial or ethnic background compared to White non-Hispanic respondents. Additional data on racism are available <u>here</u>.

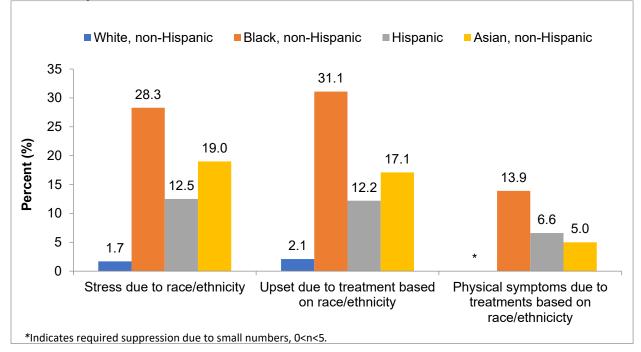
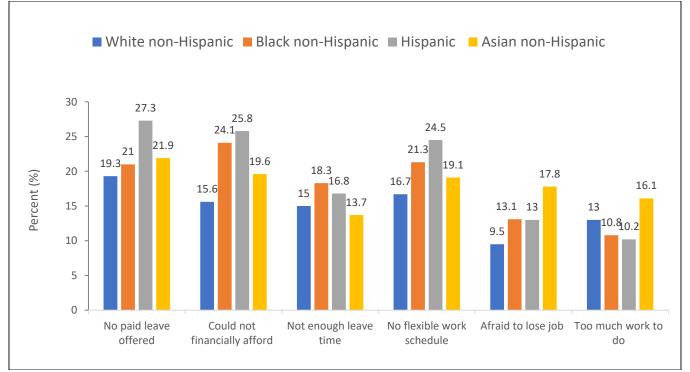


Figure 1. Prevalence of reactions to racism during the twelve months before delivery, by race and ethnicity, 2021.

Factors Affecting Maternity Leave

<u>MA Paid Family and Medical Leave (PFML) legislation</u> was passed in June 2018 and benefits became available in January 2021. MA PRAMS data were used to inform the legislation and will be used to monitor the implementation of the PFML program. MA PRAMS data from 2021 found that 66.2% of MA respondents who were employed during pregnancy took paid leave only and 8.1% took both paid and unpaid leave, compared with 40-47% and 13-15% respectively in 2019-2020 combined data. In 2021, prevalence for reasons for not taking paid family leave showed decreasing inequities by race and ethnicity. While there remains variation across race and ethnicity, these differences were not statistically significant. Additional data on family leave are available here.

Figure 2. Prevalence of reasons for not taking family leave after birth by race and ethnicity, 2021.



Postpartum Depressive Symptoms and Screenings

PRAMS data are used by a variety of MCH programs, policy makers and initiatives including: <u>An Act Relative to Postpartum Depression</u> (PPD), Chapter 313 of the Acts of 2010, which helped establish a Special Legislative Commission on PPD and requires health care providers and health plans to report PPD screening. MDPH includes PRAMS data on PPD screening and postpartum depressive symptoms in the annual legislative report, as well as uses these data for program evaluation. PRAMS data on postpartum depressive symptoms are also used to inform the MDPH Title V priority on mental health and emotional well-being and is a National Outcome Measure (NOM-24) for Title V. Based on 2021 data, a higher prevalence of postpartum depressive symptoms was observed among Black non-Hispanic and Asian non-Hispanic respondents (15.0% and 15.7% respectively) compared to White non-Hispanic respondents (8.6%). Although people of color were more likely to report postpartum depressive symptoms compared to White people, Black and Hispanic people were less likely to receive depression screening during either prenatal care or postpartum visit. Additional data on postpartum depressive symptoms and screening are available here.

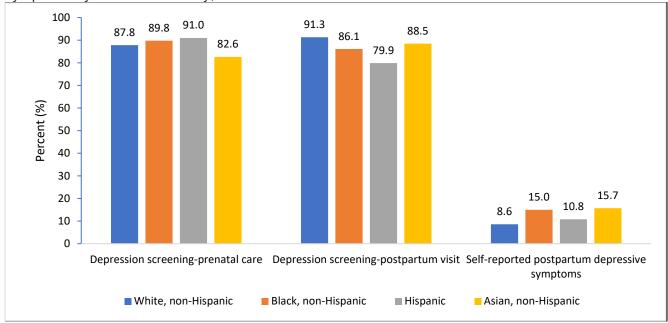
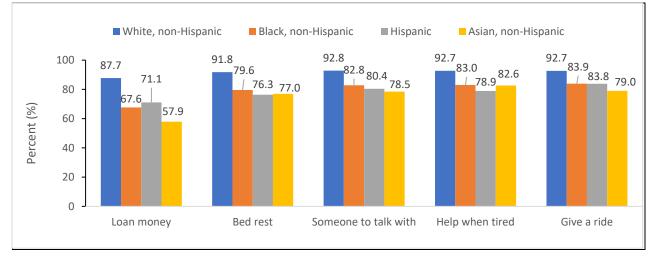


Figure 3. Prevalence of depression screening and self-reported postpartum depressive symptoms by race and ethnicity, 2021.

Social, Emotional, and Financial Support Among Pregnant People

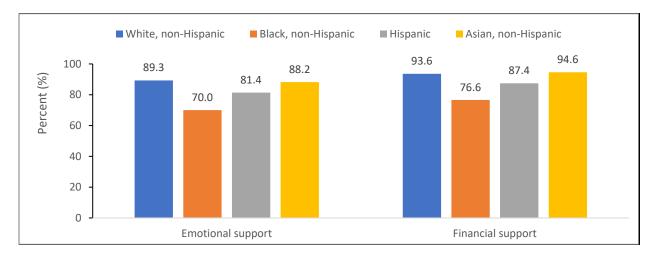
PRAMS data are a unique source for information on social support and partner support among pregnant and postpartum people and are used to monitor the Title V priority "Strengthen the capacity of the health system to promote mental health and emotional well-being." Across all five measures of social support (i.e., someone to loan new parent \$50, someone to help if sick and in bed, someone to talk with about problems, someone to help if frustrated with new baby, someone to give new parent and baby a ride to doctor's office), **people of color reported less support compared to White non-Hispanics, with percentages between 57-84% compared to between 87-93% of respondents in 2019-2021, respectively.** Additional data on social and partner support and stressful life events are available <u>here.</u>

Figure 4. Prevalence of different types of social support after delivery, by race and ethnicity, 2019-2021 combined.



Starting in 2017, MA PRAMS began collecting data on a respondent's emotional support from their partner and financial support from infant's father. In 2021, 86% of respondents reported having their partner's emotional support (up from 81% in 2017), while financial support from their infant's father increased from nearly 88% in 2017 to 91% in 2021, with prevalence increases seen across race and ethnicity groups. Additional data on emotional support and father's financial support are available <u>here</u>.

Figure 5. Prevalence of emotional support from respondent's partner and financial support from infant's father after delivery, by race and ethnicity, 2021.



Smoking and Other Substance Use During Pregnancy

Massachusetts also relies on PRAMS data to inform its Title V priority "Prevent the use of substances, including alcohol, tobacco, marijuana and opioids, among youth and pregnant people." MA PRAMS has asked questions on alcohol consumption and smoking since 2007 and added questions on vaping in 2016. During the last decade, smoking in the last three months of pregnancy has declined from 8.3% in 2012 to 4.5% in 2019 and 3.7% in 2021. However, e-cigarette use in the last three months of pregnancy has increased from 0.9% in 2019 to 1.6% in 2021. Additional data on smoking, e-cigarette and alcohol use are available here.

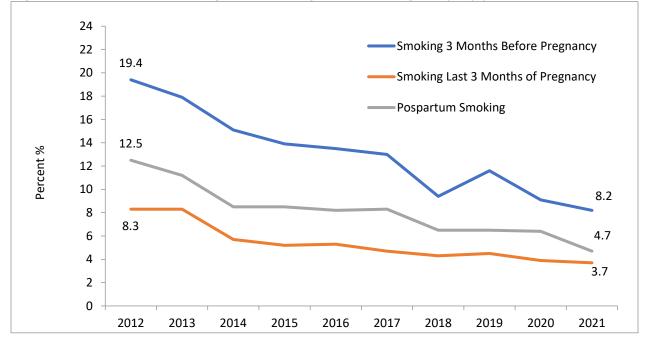


Figure 6. Prevalence of smoking before, during, and after pregnancy, by year.

In FY19-20, MA added supplemental survey questions on perinatal substance use, including opioids and marijuana, to PRAMS and conducted a call-back survey of respondents who reported using substances in the perinatal period, providing a unique source of data on

medications during pregnancy. **Marijuana use was reported by 3.8% of respondents while the use of prescription pain relievers was reported by 6.0% of respondents in 2021**. Approximately 60% of respondents who used prescription pain relievers during pregnancy said that the prescriptions came from their obstetrician, midwife, or prenatal care provider, with another 19-20% reported receiving their prescription from the Emergency Department, and 16% received their prescriptions from their primary care physician. Notably, between 10-20% of respondents said they took prescription pain relievers during pregnancy without having received a prescription for them. Additional data on substance use, including prescription pain medication and marijuana use, are available <u>here</u>.

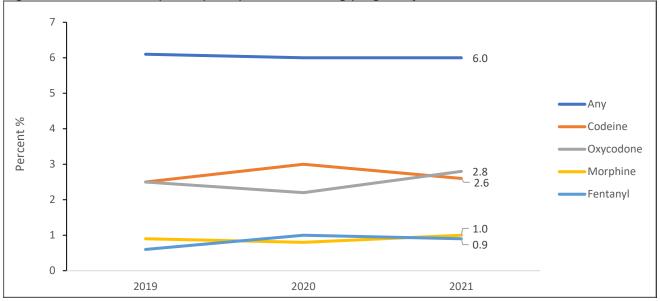
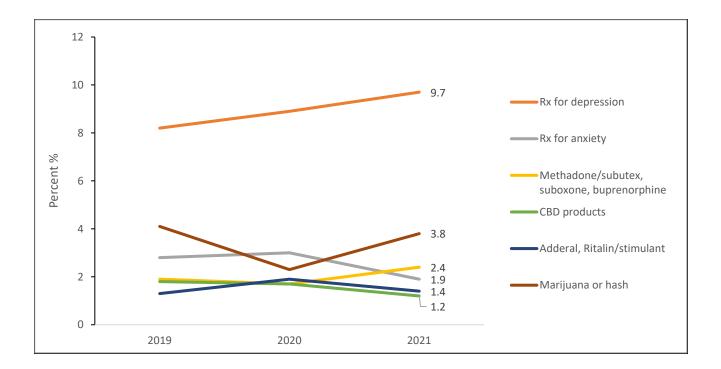


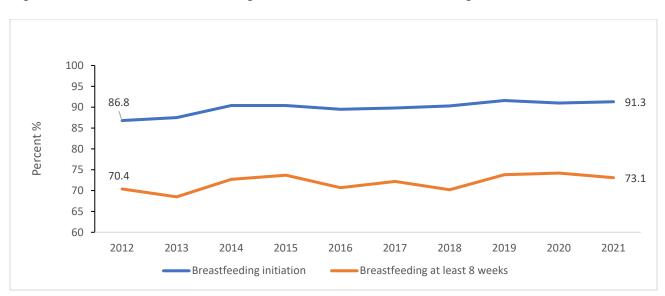
Figure 7. Prevalence of prescription pain relief during pregnancy, 2019-2021.

Figure 8. Prevalence of other prescriptions used in pregnancy, 2019-2021.



Breastfeeding

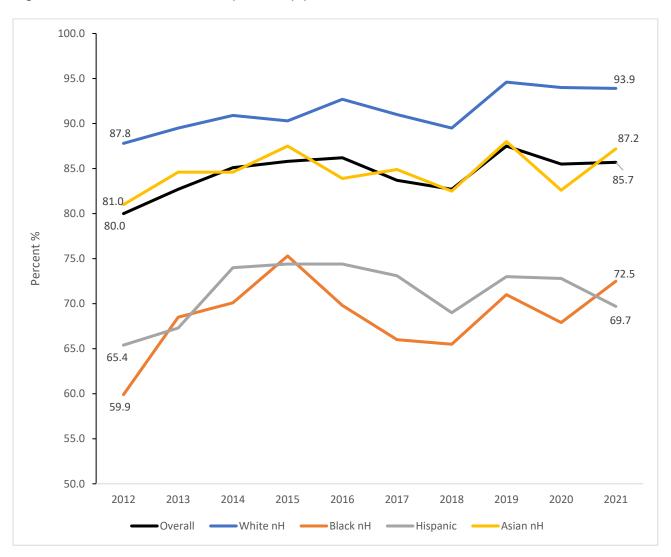
Although the majority of MA respondents initiate breastfeeding, **PRAMS 2021 data show that by eight weeks postpartum, the proportion of new parents reporting any breastfeeding was 66.8% for Hispanics, statistically lower than Asian non-Hispanics (82.7%). White non-Hispanic parents (73.3%) and Black non-Hispanic parents (76.5%) had comparable rates.** Parents with lower socioeconomic status were also less likely to breastfeed at eight weeks; among parents with Medicaid, 63.5% breastfed for eight weeks, compared to 80.7% with private insurance, and among parents at ≤100% federal poverty level vs. >100%, rates were 64.1% and 77.6% respectively. Additional data on breastfeeding are available here.





Infant Safe Sleep

According to data from MA PRAMS, while the prevalence of supine (laid on the back) sleep positioning has increased from 80.0% in 2012 to 85.7% in 2021, disparities continue to persist. For example, in 2021, fewer non-US-born respondents (76.8%) placed their infant supine to sleep compared with US-born respondents (89.9%). Furthermore, Black non-Hispanic (72.5%) and Hispanic (69.7%) infants had a lower prevalence of supine sleep position than White non-Hispanic infants (93.9%). Additional data on safe sleep are available here.





Oral Health

MA PRAMS data were used to inform the development of the <u>Massachusetts Oral Health Practice</u> <u>Guidelines for Pregnancy and Early Childhood</u>. The aim of the Guidelines was to motivate providers to promote oral health care among pregnant people and young children. While maintaining good oral hygiene is important prior to and during pregnancy and can help prevent or reduce the severity of oral health problems such as gingivitis, gingival hyperplasia, and pyogenic granuloma, change in practice has been challenging. PRAMS data showed a slight decrease in the percentage of receiving cleanings during pregnancy from 2019 to 2020, likely due to reduced access during the COVID-19 pandemic, from 58.8% to 51.1% respectively. Prevalence of teeth cleaning started to increase in 2021, with 52.7% of respondents reporting a cleaning during pregnancy. **Inequities in dental cleaning persist across racial and ethnic groups, with fewer people of color reporting a dental cleaning**; 38.7% of Black non-Hispanic, 42.8% of Hispanic, and 43.7% of Asian non-Hispanic reporting a dental cleaning, compared to White non-Hispanic respondents (58.7%). The most common reason for not visiting a dentist during pregnancy was that the pregnant people did not think it was safe (17.2% in 2021). Additional data on oral health are available <u>here</u>.

Further tables are presented by topic in the <u>Appendix</u>. MA PRAMS data reports for earlier years are available on the MA PRAMS website <u>here</u> and on the MA Population Health Information Tool website for PRAMS <u>here</u>.

Contents

Acknowledgments	3
Introduction	4
Highlights of the data	5
The Impact of Racism on Stress	5
Figure 1. Prevalence of reactions to racism during the twelve months before delivery, by race and ethnicity, 2021	5
Factors Affecting Maternity Leave	6
Figure 2. Prevalence of reasons for not taking family leave after birth by race and ethnicity, 2021	6
Postpartum Depressive Symptoms and Screenings	7
Figure 3. Prevalence of depression screening and self-reported postpartum depressive symptoms by ra and ethnicity, 2021	
Social, Emotional, and Financial Support Among Pregnant People	8
Figure 4. Prevalence of different types of social support after delivery, by race and ethnicity, 2019-2021 combined.	
Figure 5. Prevalence of emotional support from respondent's partner and financial support from infant's father after delivery, by race and ethnicity, 2021.	
Smoking and Other Substance Use During Pregnancy	9
Figure 6. Prevalence of smoking before, during, and after pregnancy, by year	9
Figure 7. Prevalence of prescription pain relief during pregnancy, 2019-2021	10
Figure 8. Prevalence of other prescriptions used in pregnancy, 2019-2021.	10
Breastfeeding	12
Figure 9. Prevalence of breastfeeding initiation and duration at least eight weeks, 2012-2021	12
Infant Safe Sleep	13
Figure 10. Prevalence of infant supine sleep position, 2012-2021	13
Oral Health	14
PRAMS Appendix	19
Table 1. Prevalence of racism by sociodemographic characteristics and race/ethnicity, MA PRAMS, 20	
Table 2. Prevalence of racism by sociodemographic characteristics and race/ethnicity, MA PRAMS, 202	
Table 3. Prevalence of racism by sociodemographic characteristics and race/ethnicity, MA PRAMS, 202	
Table 4. Prevalence of feeling stressed due to racial/ethnic background by sociodemographic characteristics and race/ethnicity, MA PRAMS, 2019	23

Table 5. Prevalence of feeling stressed due to racial/ethnic background by sociodemographiccharacteristics and race/ethnicity, MA PRAMS, 202024
Table 6. Prevalence of feeling stressed due to racial/ethnic background by sociodemographiccharacteristics and race/ethnicity, MA PRAMS, 202125
Table 7. Prevalence of feeling upset due to treatment based on racial/ethnic background bysociodemographic characteristics and race/ethnicity, MA PRAMS, 2019
Table 8. Prevalence of feeling upset due to treatment based on racial/ethnic background bysociodemographic characteristics and race/ethnicity, MA PRAMS, 2020
Table 9. Prevalence of feeling upset due to treatment based on racial/ethnic background bysociodemographic characteristics and race/ethnicity, MA PRAMS, 2021
Table 10. Prevalence of feeling physical symptoms due to treatment based on to racial/ethnic backgroundby sociodemographic characteristics and race/ethnicity, MA PRAMS, 201929
Table 11. Prevalence of feeling physical symptoms due to treatment based on racial/ethnic background bysociodemographic characteristics, MA PRAMS, 202030
Table 12. Prevalence of feeling physical symptoms due to treatment based on racial/ethnic background bysociodemographic characteristics, MA PRAMS, 2021
Figure 11. Prevalence of reactions to racism during the 12 months before delivery, MA PRAMS 2019 32
Figure 12. Prevalence of reactions to racism during the 12 months before delivery, MA PRAMS 2020-2021 combined
Figure 13. Prevalence of time spent thinking about race, MA PRAMS 2019
Figure 14. Prevalence of time spent thinking about race, MA PRAMS 2020-2021
Table 13. Prevalence of any maternity leave and type of leave, by sociodemographic characteristics, MAPRAMS, 201934
Table 14. Prevalence of any maternity leave and type of leave, by sociodemographic characteristics, MAPRAMS, 202035
Table 15. Prevalence of any maternity leave and type of leave, by sociodemographic characteristics, MAPRAMS, 202136
Table 16. Prevalence of reasons for no leave by race/ethnicity, MA PRAMS, 2019
Table 17. Prevalence of reasons for no leave by race/ethnicity, MA PRAMS, 2020
Table 18. Prevalence of reasons for no leave by race/ethnicity, MA PRAMS, 2021
Table 19. Prevalence of depression screening and self-reported postpartum depressive symptoms bysociodemographic characteristics, MA PRAMS, 2019
Table 20. Prevalence of depression screening and self-reported postpartum depressive symptoms bysociodemographic characteristics, MA PRAMS, 202039
Table 21. Prevalence of depression screening and self-reported postpartum depressive symptoms bysociodemographic characteristics, MA PRAMS, 202140
Table 22. Prevalence of different types of social support after delivery by sociodemographic characteristics, MA PRAMS, 2019 41

Table 23. Prevalence of different types of social support after delivery by sociodemographiccharacteristics, MA PRAMS, 202042
Table 24. Prevalence of different types of social support after delivery by sociodemographiccharacteristics, MA PRAMS, 202143
Table 25. Prevalence of emotional support from respondent's partner and financial support from infant'sfather after delivery by sociodemographic characteristics, MA PRAMS, 2019–202144
Table 26. Prevalence of categories of stressors in the 12 months before delivery, by sociodemographiccharacteristics, MA PRAMS, 201945
Table 27. Prevalence of categories of stressors in the 12 months before delivery, by sociodemographiccharacteristics, MA PRAMS, 202046
Table 28. Prevalence of categories of stressors in the 12 months before delivery, by sociodemographiccharacteristics, MA PRAMS, 202147
Figure 15. Prevalence of individual stressful life events during the 12 months before delivery, MA PRAMS, 2019-2021
Table 29. Prevalence of stressors in the 12 months before delivery, by race/ethnicity, MA PRAMS, 2019 49
Table 30. Prevalence of stressors in the 12 months before delivery, by race/ethnicity, MA PRAMS, 2020 50
Table 31. Prevalence of stressors in the 12 months before delivery, by race/ethnicity, MA PRAMS, 2021 51
Table 32. Prevalence of smoking prior to pregnancy, during pregnancy, and postpartum bysociodemographic characteristics, MA PRAMS, 2019
Table 33. Prevalence of smoking prior to pregnancy, during pregnancy, and postpartum bysociodemographic characteristics, MA PRAMS, 2020
Table 34. Prevalence of smoking prior to pregnancy, during pregnancy, and postpartum bysociodemographic characteristics, MA PRAMS, 202154
Table 35. Prevalence of smoking prior to pregnancy by sociodemographic characteristics, MA PRAMS,2019-202155
Table 36. Prevalence of smoking during pregnancy by sociodemographic characteristics, MA PRAMS,2019-202156
Table 37. Prevalence of smoking postpartum by sociodemographic characteristics, MA PRAMS, 2019-2021
Table 38. Prevalence of smoking relapse by sociodemographic characteristics, MA PRAMS, 2019-2021 58
Table 39. Prevalence of e-smoking prior to pregnancy and during pregnancy, by sociodemographiccharacteristics, MA PRAMS, 201959
Table 40. Prevalence of e-smoking prior to pregnancy and during pregnancy, by sociodemographiccharacteristics, MA PRAMS, 202060
Table 41. Prevalence of e-smoking prior to pregnancy and during pregnancy, by sociodemographic characteristics, MA PRAMS, 2021 61

Table 42. Prevalence of e-smoking two years prior to pregnancy, by sociodemographic characteristics, MAPRAMS, 2019-202162
Table 43. Prevalence of e-smoking three months prior to pregnancy, by sociodemographic characteristics,MA PRAMS, 2019-202163
Table 44. Prevalence of e-smoking during last three months of pregnancy, by sociodemographiccharacteristics, MA PRAMS, 2019-202164
Table 45. Prevalence of drinking alcohol in the three months prior to pregnancy by sociodemographiccharacteristics, MA PRAMS, 2019-202165
Table 46. Prescription Pain Medication Use and Other Substance Use During Pregnancy 66
Table 47. Prevalence of breastfeeding initiation and duration of at least 8 weeks by sociodemographiccharacteristics, MA PRAMS, 2019-202168
Figure 16. Hospital Breastfeeding Practices, MA PRAMS 2019-2021
Table 48. Prevalence of infant safe sleep behaviors by sociodemographic characteristics, MA PRAMS,2019
Table 49. Prevalence of infant safe sleep behaviors by sociodemographic characteristics, MA PRAMS,2020
Table 50. Prevalence of infant safe sleep behaviors by sociodemographic characteristics, MA PRAMS,2021
Table 51. Prevalence of reporting oral health care and knowledge by type and sociodemographiccharacteristics, MA PRAMS, 201973
Table 52. Prevalence of reporting oral health care and knowledge by type and sociodemographiccharacteristics, MA PRAMS, 202074
Table 53. Prevalence of reporting oral health care and knowledge by type and sociodemographiccharacteristics, MA PRAMS, 202175
Table 54. Prevalence of reasons for not going to the dentist during pregnancy, MA PRAMS, 2019-2021.76
Table 55. Prevalence of enrollment in WIC during pregnancy by sociodemographic characteristics, MAPRAMS, 2019-202177
Table 56. Prevalence of unintended pregnancy and of being unsure about becoming pregnant bysociodemographic characteristics, MA PRAMS, 2019-2021
Table 57. Prevalence of receiving influenza vaccination before or during pregnancy and Tdap vaccinationduring pregnancy by sociodemographic characteristics, MA PRAMS, 2019-2021
Table 58. Prevalence of being offered an HIV test and receiving an HIV test during pregnancy, bysociodemographic characteristics, MA PRAMS, 2019-2021
Table 59. Prevalence of reasons why respondents did not have an HIV test during their most recentpregnancy or delivery, MA PRAMS, 2019-2021
Table 60. Prevalence of cesarean and vaginal delivery by sociodemographic characteristics, MA PRAMS,2019-202182
Table 61. Prevalence of postpartum visit by sociodemographic characteristics, MA PRAMS, 2019-2021.83

Table 62. Prevalence of types of postpartum contraception by sociodemographic characteristics, MAPRAMS, 2019	84
Table 63. Prevalence of types of postpartum contraception by sociodemographic characteristics, MA PRAMS, 2020	85
Table 64. Prevalence of types of postpartum contraception by sociodemographic characteristics, MA PRAMS, 2021	86
Table 65. Sample Size, Response Rates, and Total Births, MA PRAMS, 2007–2021	87
Table 66. Overall characteristics by year for respondents ¹ , MA PRAMS 2019-2021	88
Table 67. Details of Sample Characteristics, MA PRAMS 2019	89
Table 68. Details of Sample Characteristics, MA PRAMS 2020	90
Table 69. Details of Sample Characteristics, MA PRAMS 2021	91
Massachusetts Title V Performance Measures for Selected Title V Priorities, Healthy People 2030 Objectives, and MA PRAMS 2019-2021	.92
PRAMS Sampling Methodology	.95
Limitations	.96
PRAMS Advisory Committee Members	.97

PRAMS Appendix

<u>PRAMS</u> is a collaborative surveillance project of the Centers for Disease Control and Prevention (CDC) and state health departments. PRAMS collects state-specific, population-based data on respondents' attitudes and experiences before, during, and shortly after pregnancy. MA PRAMS oversamples by race and Hispanic ethnicity to ensure adequate representation of racial and ethnic minority birth parents, and birth parents are sampled for participation between two and six months postpartum.

All percentages in this report are weighted (see <u>PRAMS Methodology</u>) to represent the Massachusetts birthing population. In the Appendix of the report, additional tables are presented detailing percentage responses to PRAMS questions and their 95% confidence intervals.

This is the eighth PRAMS report for Massachusetts since MA PRAMS began in 2007.

	White	White non-Hispanic		ion-Hispanic	His	spanic	Asian non-Hispanic		
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)	
Total	1,117	2.8 (1.6-4.9)	1,826	28.7 (23.9-34.1)	2,236	17.7 (14.2-21.8)	885	15.6 (12.0-20.0)	
Age (years)									
<20	Ins	ufficient data ²	Insuff	icient data ²	240	36.0 (17.5-60.0)	0	. ()	
20-29	470	4.6 (2.1-10)	698	29.2 (21.7-38.1)	1,199	18.0 (13.2-24.0)	119	8.9 (4.1-18.3)	
30-39	553	2.0 (0.9-4.7)	914	29.0 (22.8-36.1)	722	14.7 (10.1-20.9)	765	18.9 (14.4-24.5)	
40+	0	0 ()	105	18.5 (9.2-33.9)	Insuffic	cient data ²	0	0 ()	
Education									
<high school<="" td=""><td>Ins</td><td>ufficient data²</td><td>246</td><td>36.8 (16.8-62.7)</td><td>597</td><td>20.3 (13.0-30.2)</td><td>Insuff</td><td>icient data²</td></high>	Ins	ufficient data ²	246	36.8 (16.8-62.7)	597	20.3 (13.0-30.2)	Insuff	icient data ²	
High school diploma		ufficient data ²	254	19.5 (11.4-31.2)	406	11.5 (6.8-19.0)	Insuff	icient data ²	
Some college	Ins	ufficient data ²	638	26.1 (19.5-33.9)	930	23.6 (16.8-32.0)	Insuff	icient data ²	
College graduate	511	2.0 (0.9-4.6)	643	37.4 (28.9-46.6)	277	13.2 (7.3-22.8)	766	18.6 (14.2-23.9)	
Insurance type									
Private	456	1.5 (0.7-3.4)	660	31.1 (23.6-39.7)	470	16.9 (10.7-25.5)	689	17.5 (13.2-22.9)	
Medicaid/MassHealth	394	4.8 (1.8-12.1)	1,027	26.7 (20.3-34.2)	1,427	16.3 (12.3-21.4)	136	10.6 (4.9-21.4)	
All other	Ins	ufficient data ²	114	46.7 (23.8-71.1)	Insufficient data ²		Insufficient data ²		
Household poverty level									
≤100% FPL	505	12.3 (5.2-26.3)	505	25.2 (17.8-34.4)	1,157	20.6 (15.1-27.4)	102	14.4 (6.1-30.3)	
>100% FPL	612	1.7 (0.8-3.6)	1,170	30.6 (24.7-37.2)	783	13.6 (9.4-19.3)	748	15.9 (12.1-20.8)	
Nativity				· · · · ·		, , ,			
Non-US-born	511	15.4 (6.6-31.9)	790	21.5 (16.3-27.7)	1,194	17.9 (13.2-23.7)	626	14.0 (10.2-18.9)	
US-born	606	1.7 (0.8-3.4)	1,036	38.7 (30.1-48.0)	1,017	17.1 (12.3-23.4)	258	21.2 (13.3-32.2)	
Marital status									
Unmarried	437	4.8 (2.0-11.3)	982	30.4 (23.0-38.9)	1,470	20.0 (15.1-26.0)	Insuff	icient data ²	
Married	680	2.2 (1.1-4.6)	844	27.0 (21.1-33.8)	765	14.5 (10.2-20.2)	825	16.2 (12.4-20.8)	
WIC participation		, , ,				, , ,		· · · · · ·	
No	650	2.0 (1.0-3.9)	942	35.5 (28.1-43.7)	727	16.8 (11.5-24.0)	724	16.6 (12.6-21.6)	
Yes	467	7.3 (2.9-17.1)	884	24.3 (18.0-32.0)	1,509	18.2 (13.8-23.5)	126	9.8 (4.2-21.1)	
Disability status		· · · · · · · · · · · · · · · · · · ·				, , ,			
No	786	2.2 (1.1-4.1)	1,537	27.5 (22.4-33.4)	1,525	14.4 (11.0-18.6)	798	15.3 (11.6-19.9)	
Yes	Ins	ufficient data ²	289	37.3 (24.6-52.0)	710	35.3 (24.4-47.9)	86	18.9 (8.2-37.8)	

	White non-Hispanic		Black	non-Hispanic		Hispanic	Asian non-Hispanic		
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	
Total	1,009	2.8 (1.4-5.5)	2,287	37.4 (31.9-43.3)	2,157	16.7 (13.1-21.1)	1,080	18.2 (14.2-22.9	
Age (years)									
<20	0	0 ()	Insu	ufficient data ²	Insเ	ufficient data ²	0	0 (
20-29	Insuffi	cient data ²	864	39.2 (29.8-49.5)	1,080	16.4 (11.4-23.1)	229	15.5 (8.6-26.4	
30-39	758	3.2 (1.4-7.2)	1,093	34.7 (28.4-41.6)	844	17.0 (11.7-24)	780	18.4 (13.9-24	
40+	Insuffi	cient data ²	276	40.9 (20.9-64.6)	ไทรเ	ufficient data ²	Insu	ufficient data2	
Education									
<high school<="" td=""><td>0</td><td>0 ()</td><td>192</td><td>37.8 (21.6-57.3)</td><td>272</td><td>9.4 (4.1-19.8)</td><td>0</td><td>0 (</td></high>	0	0 ()	192	37.8 (21.6-57.3)	272	9.4 (4.1-19.8)	0	0 (
High school diploma	Insuffi	cient data ²	326	25.6 (16.5-37.4)	403	11.0 (6.0-19.3)	Insu	ufficient data ²	
Some college	Insuffi	cient data ²	652	32.9 (24.5-42.5)	838	24.7 (17.4-33.8)	Insu	ifficient data ²	
College graduate	777	3.1 (1.5-6.5)	1,001	45.9 (36.6-55.5)	644	25.6 (16.4-37.6)	871	19.1 (14.7-24.4	
Insurance type									
Private	490	1.8 (0.8-3.9)	845	47.6 (38.4-56.9)	640	23.1 (15.4-33.1)	900	20.9 (16.1-26.7	
Medicaid/MassHealth	Insuffi	cient data ²	1,325	34.8 (27.4-42.9)	1,426	15.2 (11.1-20.4)	181	14.9 (7.5-27.4	
All other	0	0 ()	Insu	ufficient data ²	0	0 ()	0	0 (
Household poverty level								·	
≤100% FPL	Insuffi	cient data ²	758	39.1 (30.1-49.0)	935	18.8 (12.7-26.9)	155	17.1 (7.7-33.6	
>100% FPL	811	2.6 (1.2-5.2)	1,418	40.3 (33.0-48.1)	1,064	17.4 (12.5-23.7)	926	18.7 (14.5-23.9	
Nativity								·	
Non-US-born	Insuffi	cient data ²	1,060	26.7 (21.2-33.1)	936	11.9 (8.0-17.4)	794	16.4 (12.2-21.7	
US-born	672	2.1 (0.9-4.7)	1,227	57.2 (47.1-66.7)	1,221	24.0 (17.6-31.9)	286	25.8 (16.3-38.1	
Marital status									
Unmarried	Insuffi	cient data ²	1,197	41.7 (32.9-51.0)	1,357	19.2 (14.1-25.6)	Insu	ufficient data ²	
Married	853	3.0 (1.4-6.5)	1,090	33.7 (27.2-40.8)	800	13.6 (9.0-20.1)	1,009	18.5 (14.4-23.5	
WIC participation									
No	789	2.6 (1.2-5.4)	905	39.3 (31.6-47.6)	1,005	22.9 (16.1-31.5)	1,009	20.3 (15.8-25.7	
Yes	Insuffi	cient data ²	1,367	36.7 (29.2-45.0)	1,151	13.6 (9.6-18.7)	Insu	ufficient data ²	
Disability status				· · · · ·		· · · · ·			
No	887	2.7 (1.3-5.7)	1,776	34.5 (28.5-41.0)	1,335	12.2 (9.0-16.3)	1,010	18.3 (14.2-23.3	
Yes	Insuffi	cient data ²	484	53.0 (39.3-66.2)	791	41.8 (28.0- 57.0)	Insi	ufficient data2	

	Whit	e non-Hispanic	Black	k non-Hispanic		Hispanic	Asian non-Hispanic		
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	
Total	1,361	3.5 (2.1-5.7)	2,266	36.6 (30.9-42.8)	2,304	17.4 (13.7-21.7)	1,454	28.9 (23.6-35.0)	
Age (years)									
<20	0	0 ()		ufficient data ²		ufficient data ²	0	0 ()	
20-29	Ins	ufficient data ²	745	32.8 (24.0-43.0)	874	13.1 (8.7-19.2)	196	19.3 (9.8-34.4)	
30-39	1,007	3.4 (1.8-6.1)	1,174	36.8 (29.9-44.3)	1,252	22.6 (16.8-29.8)	1,221	32.7 (26.3-39.8)	
40+	Ins	ufficient data ²	251	53.6 (26.2-78.9)	ไทรเ	ufficient data ²	Inst	ufficient data ²	
Education									
<high school<="" td=""><td>0</td><td>0 ()</td><td></td><td>ufficient data²</td><td>307</td><td>10.9 (6.0-18.9)</td><td></td><td>ufficient data²</td></high>	0	0 ()		ufficient data ²	307	10.9 (6.0-18.9)		ufficient data ²	
High school diploma	Ins	ufficient data ²	347	22.8 (13.2-36.5)	545	15.1 (9.1-24.1)	Insi	ufficient data ²	
Some college	Ins	ufficient data ²	729	36.3 (28.0-45.5)	609	17.2 (10.6-26.9)		ufficient data ²	
College graduate	964	3.5 (1.9-6.1)	987	48 (37.9-58.3)	814	27.3 (18.8-38.0)	1,276	32.1 (26.1-38.8)	
Insurance type									
Private	663	2.3 (1.2-4.5)	1,006	47.2 (38.4-56.1)	804	23.7 (16.0-33.7)	1,150	30.9 (24.8-37.9)	
Medicaid	598	7.2 (3.1-15.8)	1,178	32.4 (24.6-41.3)	1,256	14.0 (10.2-19.1)	232	24.5 (13.0-41.4)	
Other	0	0 ()	0	0 ()	ไทรเ	ufficient data ²	Insi	ufficient data ²	
Household poverty level									
≤100% FPL	236	6.6 (1.9-20.1)	757	32.3 (23.4-42.7)	863	17.9 (12.1-25.7)	142	28.6 (12.2-53.5)	
>100% FPL	1,025	2.9 (1.6-5.3)	1,462	40.5 (33.0-48.4)	1,381	19.6 (14.5-25.9)	1,257	29.2 (23.5-35.6)	
Nativity									
Non-US-born	716	15.9 (7.6-30.3)	1,035	28.8 (21.7-37.1)	1,362	16.8 (12.4-22.2)	914	23.9 (18.2-30.8)	
US-born	645	1.8 (0.9-3.7)	1,231	47.6 (38.4-56.9)	942	18.3 (12.5-25.9)	539	44.8 (32.9-57.4)	
Marital status									
Unmarried	Ins	ufficient data ²	1,147	35.8 (28.0-44.5)	1,021	14.8 (10.4-20.6)	143	25.9 (12.4-46.3)	
Married	1,182	4.0 (2.3-6.7)	1,119	37.5 (29.4-46.4)	1,284	20.2 (14.7-26.9)	1,310	29.3 (23.7-35.7)	
WIC participation		. ,				. ,			
No	864	2.6 (1.4-4.7)	1,146	40.8 (32.1-50.2)	1,345	26.5 (19.8-34.6)	1,275	31.0 (25.1-37.6)	
Yes	497	8.2 (3.2-19.4)	1,105	32.8 (25.6-41.0)	960	11.8 (8.1-16.9)	160	18.7 (8.5-36.5)	
Disability status		. ,				· · · · ·		· · · · ·	
No	864	2.4 (1.3-4.4)	1,725	34.7 (28.4-41.6)	1,457	13.1 (9.7-17.4)	1,310	29.3 (23.6-35.8)	
Yes	Ins	ufficient data ²	525	44.6 (31.2-58.8)	810	40.0 (27.5-54.0)	143	25.8 (12.6-45.6)	

Table 4. Prevalence of feeling stressed due to racial/ethnic background by sociodemographic characteristics and race/ethnicity, MA PRAMS, 2019

	White	e non-Hispanic	Blac	k non-Hispanic		Hispanic	Asian non-Hispanic		
		Percentage		Percentage		Percentage		Percentage	
Characteristic	n ¹	(95% CI)	n ¹	(95% CI)	n ¹	(95% CI)	n ¹	(95% CI)	
Total	710	1.8 (0.9-3.7)	1,125	17.6 (13.6-22.6)	1,014	8.0 (5.7-11.2)	695	12.2 (9.1-16.3)	
Age (years)									
<20	0	0 ()	Ins	sufficient data ²	Ins	ufficient data ²	0	. ()	
20-29	Insi	ufficient data ²	431	18.1 (12.4-25.7)	626	9.4 (6.0-14.4)	119	8.9 (4.1-18.3)	
30-39	459	1.7 (0.7-4.3)	511	16.1 (11.4-22.3)	286	5.9 (3.2-10.6)	576	14.2 (10.3-19.3)	
40+	0	0 ()	89	15.7 (7.3-30.6)	Ins	ufficient data ²	0	0 ()	
Education									
<high school<="" td=""><td>Insi</td><td>ufficient data²</td><td>Ins</td><td>sufficient data²</td><td>192</td><td>6.5 (3.0-13.8)</td><td>Ins</td><td>sufficient data²</td></high>	Insi	ufficient data ²	Ins	sufficient data ²	192	6.5 (3.0-13.8)	Ins	sufficient data ²	
High school diploma	Insi	ufficient data ²	133	10.2 (4.7-21.0)	170	4.9 (2.0-11.3)	Ins	sufficient data ²	
Some college	Insi	ufficient data ²	397	16.2 (11.1-23.2)	425	10.8 (6.2-18.0)	Ins	sufficient data ²	
College graduate	417	1.6 (0.6-4.1)	441	25.4 (18.2-34.2)	228	10.8 (5.5-20.1)	577	13.9 (10.2-18.8)	
Insurance type									
Private	337	1.1 (0.4-2.9)	454	21.4 (15.2-29.2)	228	8.1 (4.1-15.3)	517	13.2 (9.5-18.1)	
Medicaid	Insi	ufficient data ²	601	15.6 (10.3-23.0)	701	8.0 (5.3-12.1)	118	9.0 (3.9-19.7)	
Other	Insi	ufficient data ²	Insufficient data ²		Insufficient data ²		Ins	sufficient data ²	
Household poverty level									
≤100% FPL	Insi	ufficient data ²	279	13.9 (8.4-22.3)	531	9.5 (5.8-14.9)	Ins	sufficient data ²	
>100% FPL	455	1.3 (0.5-3.1)	695	18.1 (13.6-23.6)	414	7.2 (4.2-12.1)	610	13.1 (9.5-17.6)	
Nativity									
Non-US-born	Insi	ufficient data ²	463	12.5 (8.6-17.9)	479	7.2 (4.4-11.6)	471	10.5 (7.3-15.1)	
US-born	387	1.1 (0.4-2.7)	662	24.7 (17.4-33.9)	511	8.6 (5.2-13.8)	224	18.4 (11.1-29.0)	
Marital status									
Unmarried	Insi	ufficient data ²	586	18.1 (12.0-26.4)	653	8.9 (5.6-13.6)	Ins	sufficient data ²	
Married	443	1.5 (0.6-3.5)	539	17.2 (12.4-23.3)	362	6.9 (4.1-11.5)	670	13.1 (9.7-17.5)	
WIC participation									
No	455	1.4 (0.6-3.3)	584	21.9 (16.1-29.0)	316	7.3 (4.0-13.2)	569	13.1 (9.5-17.8)	
Yes	Inst	ufficient data ²	541	14.9 (9.6-22.4)	698	8.4 (5.5-12.6)	126	9.6 (4.1-20.7)	
Disability status				. ,					
No	592	1.6 (0.8-3.5)	1,014	18.1 (13.7-23.6)	634	6.0 (3.9-9.1)	661	12.6 (9.3-17.0)	
Yes	Insi	ufficient data ²	111	14.3 (7.3-26.2)	380	19.2 (11.0-31.4)	Ins	sufficient data ²	
¹ n weighted to reflect birthing popu	lation; ² Insufficier	it data to report (0 <n<5).< td=""><td></td><td></td><td></td><td></td><td></td><td></td></n<5).<>							

Table 5. Prevalence of feeling stressed due to racial/ethnic background by sociodemographic characteristics and race/ethnicity, MA PRAMS, 2020

	Whit	te non-Hispanic	Black non-Hispanic			Hispanic	Asian non-Hispanic		
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	
Total	774	2.1 (0.9-4.8)	1,746	28.4 (23.2-34.2)	1,050	8.1 (5.7-11.3)	857	14.4 (10.9-18.8)	
Age (years)									
<20	0	0 ()	·	Insufficient data ²	In	sufficient data ²	0	0 ()	
20-29	Ins	sufficient data ²	713	32.2 (23.5-42.3)	412	6.2 (3.6-10.7)	207	14 (7.5-24.7)	
30-39	657	2.7 (1.1-6.8)	786	24.7 (19.3-31.0)	496	9.9 (6.1-15.8)	628	14.8 (10.8-20.0)	
40+	Ins	sufficient data2	219	32.5 (13.4-60.1)	In	sufficient data ²	Ins	sufficient data ²	
Education									
<high school<="" td=""><td>0</td><td>0 ()</td><td>·</td><td>Insufficient data²</td><td>In</td><td>sufficient data²</td><td>0</td><td>0 ()</td></high>	0	0 ()	·	Insufficient data ²	In	sufficient data ²	0	0 ()	
High school diploma	0	0 ()	210	16.3 (9.0-27.7)	214	5.8 (2.7-11.8)	Ins	sufficient data ²	
Some college	Ins	sufficient data ²	511	25.6 (18.1-34.9)	436	12.9 (7.6-20.8)	Ins	sufficient data ²	
College graduate	576	2.3 (0.9-5.5)	853	39.1 (30.4-48.5)	318	12.6 (6.9-21.9)	714	15.6 (11.6-20.7)	
Insurance type									
Private	255	0.9 (0.3-2.8)	670	37.7 (29.1-47.1)	420	15.2 (9.0-24.4)	764	17.8 (13.3-23.3)	
Medicaid	Ins	sufficient data ²	990 25.7 (18.9-33.7)		599	6.3 (4.0-9.9)	Ins	sufficient data ²	
Other	0	0 ()		Insufficient data ²	0	0 ()	0	0 ()	
Household poverty level									
≤100% FPL	Ins	sufficient data ²	506	25.7 (18.0-35.3)	388	7.7 (4.4-13.2)	Ins	sufficient data ²	
>100% FPL	576	1.8 (0.7-4.4)	1,171	33.2 (26.1-41.1)	662	10.8 (7.0-16.3)	785	15.9 (11.9-20.9)	
Nativity									
Non-US-born	Ins	sufficient data ²	707	17.7 (13.2-23.3)	450	5.7 (3.3-9.5)	657	13.6 (9.8-18.5)	
US-born	437	1.4 (0.5-4.0)	1,039	48.1 (37.9-58.4)	600	11.8 (7.5-18.0)	200	18 (10.2-29.6)	
Marital status									
Unmarried	Ins	sufficient data ²	970	33.4 (25.0-43.0)	608	8.6 (5.4-13.4)	Ins	sufficient data ²	
Married	652	2.3 (0.9-5.8)	776	23.9 (18.4-30.4)	442	7.5 (4.5-12.2)	801	14.7 (11.0-19.3)	
WIC participation									
No	554	1.8 (0.7-4.6)	714	31.0 (24.0-39.1)	625	14.1 (9.1-21.2)	857	17.2 (13.1-22.4)	
Yes	Ins	sufficient data ²	1,017	27.0 (20.1-35.3)	425	5.0 (2.9-8.4)	0	0 ()	
Disability status									
No	652	2.0 (0.8-5.0)	1,014	18.1 (13.7-23.6)	586	5.3 (3.4-8.2)	786	14.3 (10.6-18.9)	
Yes	Ins	sufficient data2	111	14.3 (7.3-26.2)	434	22.9 (13.2-36.8)	Ins	sufficient data ²	
¹ n weighted to reflect birthing pop	ulation; ² Insuff	icient data to report (0 <r< td=""><td>i<5).</td><td>, / I</td><td></td><td></td><td>•</td><td></td></r<>	i<5).	, / I			•		

Table 6. Prevalence of feeling stressed due to racial/ethnic background by sociodemographic characteristics and race/ethnicity, MA PRAMS, 2021

	1	White non-Hispanic	Bla	ack non-Hispanic		Hispanic	Asian non-Hispanic		
	1	Percentage	4	Percentage	4	Percentage		Percentage	
Characteristic	n ¹	(95% CI)	n ¹	(95% CI)	n ¹	(95% CI)	n ¹	(95% CI)	
Total	688	1.7 (0.8-3.6)	1,767	28.3 (23.0-34.4)	1,660	12.5 (9.4-16.5)	952	19.0 (14.6-24.4)	
Age (years)						-			
<20	0	0 ()		Insufficient data ²		Insufficient data ²	0	0 ()	
20-29		Insufficient data ²	614	27.0 (18.9-37.0)	585	8.8 (5.2-14.5)	125	12.2 (5.1-26.7)	
30-39	587	2.0 (0.9-4.4)	873	26.9 (20.9-33.9)	963	17.4 (12.2-24.1)	791	21.3 (16.1-27.6)	
40+	0	0 ()	184	39.3 (13.4-72.9)		Insufficient data ²		Insufficient data ²	
Education									
<high school<="" td=""><td>0</td><td>0 ()</td><td></td><td>Insufficient data²</td><td>180</td><td>6.4 (2.9-13.4)</td><td></td><td>Insufficient data²</td></high>	0	0 ()		Insufficient data ²	180	6.4 (2.9-13.4)		Insufficient data ²	
High school diploma		Insufficient data ²	276	18.1 (9.7-31.3)	397	11.0 (6.0-19.4)	0	0 ()	
Some college		Insufficient data ²	493	24.3 (17.3-33.1)	350	10.0 (5.0-19.0)		Insufficient data ²	
College graduate	326	1.2 (0.5-2.9)	831	40.4 (30.3-51.4)	703	23.6 (15.6-34)	845	21.4 (16.4-27.4)	
Insurance type									
Private	326	1.1 (0.5-2.8)	752	35.2 (27.3-44.1)	656	19.4 (12.4-29.0)	755	20.3 (15.2-26.5)	
Medicaid		Insufficient data ²	964	26.3 (18.9-35.2)	826	9.3 (6.1-13.8)	143	15.1 (6.7-30.6)	
Other	0	0 ()	0	0 ()		Insufficient data ²		Insufficient data ²	
Household poverty level									
≤100% FPL		Insufficient data ²	595	25.0 (17.2-34.9)	500	10.5 (6.1-17.5)		Insufficient data ²	
>100% FPL	587	1.7 (0.8-3.7)	1,141	31.6 (24.4-39.7)	1,130	16.0 (11.4-22)	791	18.4 (13.9-24.1)	
Nativity									
Non-US-born		Insufficient data ²	768	21.0 (14.5-29.5)	977	12.0 (8.3-17.0)	610	16.0 (11.4-22.2)	
US-born	408	1.2 (0.5-2.8)	999	38.6 (30.1-47.9)	683	13.4 (8.4-20.6)	342	28.4 (18.8-40.5)	
Marital status								· · ·	
Unmarried		Insufficient data ²	882	27.5 (20.5-35.9)	658	9.6 (6.1-14.8)	125	22.6 (10.2-43.1)	
Married	509	1.7 (0.8-3.7)	885	29.2 (21.5-38.2)	1,002	15.7 (10.9-22.2)	826	18.6 (14.0-24.2)	
WIC participation								· · ·	
No	426	1.3 (0.6-2.9)	844	30.1 (21.8-39.9)	982	19.4 (13.6-26.9)	844	20.6 (15.7-26.6)	
Yes		Insufficient data ²	907	26.5 (20.0-34.3)	678	8.4 (5.3-13.0)		Insufficient data2	
Disability status						· · · · · ·			
No	326	0.9 (0.4-2.2)	1,337	26.7 (20.8-33.6)	991	8.9 (6.2-12.7)	844	19.0 (14.4-24.6)	
Yes		Insufficient data ²	414	34.7 (22.8-48.9)	632	31.2 (20.0-45.3)	107	19.3 (8.1-39.4)	
¹ n weighted to reflect birthing	populatio	n: ² Insufficient data to repor	t (0 <n<5).< td=""><td>· · · · · · / · ·</td><td> I</td><td>· · · · / 1</td><td>•</td><td>· · · · · · · · · · · · · · · · · · ·</td></n<5).<>	· · · · · · / · ·	I	· · · · / 1	•	· · · · · · · · · · · · · · · · · · ·	

Table 7. Prevalence of feeling upset due to treatment based on racial/ethnic background by sociodemographic characteristics and race/ethnicity, MA PRAMS, 2019

	Whit	e non-Hispanic	Black	c non-Hispanic		Hispanic	Asian r	ion-Hispanic
Characteristic	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	662	1.7 (0.8-3.4)	1,266	19.9 (16.0-24.4)	1,670	13.1 (10.1-16.9)	516	9.0 (6.4-12.7)
Age (years)								
<20	Ins	sufficient data ²	Ins	ufficient data ²	Insu	ufficient data ²	0	. ()
20-29	338	3.3 (1.3-8.3)	555	23.1 (16.4-31.6)	903	13.5 (9.3-19.1)	Insuf	icient data ²
30-39	Ins	sufficient data ²	635	20.1 (15.0-26.5)	596	12.2 (8.0-18.1)	499	12.3 (8.7-17.1)
40+	0	0 ()	Ins	ufficient data ²	Insu	ufficient data ²	0	0 ()
Education								
<high school<="" td=""><td>Ins</td><td>sufficient data²</td><td>152</td><td>22.8 (10.4-42.8)</td><td>380</td><td>12.7 (7.0-21.9)</td><td>Insuf</td><td>icient data²</td></high>	Ins	sufficient data ²	152	22.8 (10.4-42.8)	380	12.7 (7.0-21.9)	Insuf	icient data ²
High school diploma	Ins	sufficient data ²	165	12.8 (6.5-23.7)	303	8.6 (4.7-15.4)	0	0 ()
Some college	Ins	sufficient data ²	460	18.6 (13.0-25.9)	751	19.0 (12.9-27.2)	0	0 ()
College graduate	Ins	sufficient data ²	472	27.4 (20.0-36.4)	210	10.0 (5.1-18.7)	465	11.2 (7.9-15.7)
Insurance type								
Private	Ins	sufficient data ²	536	25.3 (18.6-33.5)	377	13.3 (8.0-21.2)	414	10.5 (7.2-15.1)
Medicaid	Ins	sufficient data ²	647	16.8 (12.1-22.7)	1,090	12.5 (8.9-17.2)	Insuf	icient data ²
Other	0	0 ()		Insufficient data ²	0	0 ()	Insuf	icient data ²
Household poverty level								
≤100% FPL	Ins	sufficient data ²	340	17.1 (11.0-25.7)	948	16.8 (11.8-23.4)	Insuf	icient data ²
>100% FPL	386	1.1 (0.4-2.8)	869	22.6 (17.6-28.6)	561	9.7 (6.3-14.8)	439	9.4 (6.4-13.4)
Nativity								
Non-US-born	Ins	sufficient data ²	498	13.5 (9.5-19.0)	790	11.7 (8.0-16.9)	292	6.5 (4.0-10.3)
US-born	262	0.7 (0.3-2.0)	768	28.5 (21.6-36.7)	855	14.4 (10.0-20.3)	224	18.4 (11.1-29)
Marital status								
Unmarried	Ins	sufficient data ²	558	17.2 (12.2-23.7)	1,147	15.6 (11.2-21.2)	Insuf	icient data ²
Married	492	1.6 (0.7-3.8)	707	22.6 (17.2-29.2)	523	9.8 (6.3-14.8)	456	8.9 (6.2-12.7)
WIC participation								
No	424	1.3 (0.5-3.0)	761	28.4 (21.7-36.1)	486	11.3 (7.1-17.4)	431	9.9 (6.8-14.1
Yes	Ins	Insufficient data ²		14.0 (9.7-19.7)	1,183	14.2 (10.3-19.1)	Insuf	icient data ²
Disability status				. ,				
No	449	1.2 (0.5-2.8)	1,063	18.9 (14.9-23.7)	1,043	9.8 (7.0-13.5)	464	8.8 (6.1-12.6)
Yes	'	Insufficient data2	203	26.8 (15.7-41.7)	627	31.1 (20.8-43.8)		Insufficient data
¹ n weighted to reflect birthing pop	ulation; ² Insuffic	ient data to report (0 <n<< td=""><td>5).</td><td>· · · / ·</td><td>•</td><td>. , , , , ,</td><td></td><td></td></n<<>	5).	· · · / ·	•	. , , , , ,		

Table 8. Prevalence of feeling upset due to treatment based on racial/ethnic background by sociodemographic characteristics and race/ethnicity, MA PRAMS, 2020

	White	non-Hispanic	Bla	ck non-Hispanic		Hispanic	Asian non-Hispanic		
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	
Total	609	1.7 (0.7-3.9)	1,763	28.9 (23.7-34.7)	1,614	12.4 (9.3-16.4)	639	10.8 (7.8-14.7)	
Age (years)						· · · ·		· · · · ·	
<20	0	0 ()	In	sufficient data ²	In	sufficient data ²	0	0 ()	
20-29	Insuf	ficient data ²	617	28.4 (20.0-38.5)	763	11.4 (7.3-17.5)		nsufficient data ²	
30-39	459	1.9 (0.7-5.3)	846	26.7 (21.1-33.2)	618	12.4 (8.0-18.8)	481	11.4 (8.0-16.1)	
40+	Insuf	ficient data ²	246	36.5 (16.8-62.2)	In	sufficient data2		nsufficient data ²	
Education									
<high school<="" td=""><td>0</td><td>0 ()</td><td>183</td><td>34.9 (19.4-54.4)</td><td></td><td>sufficient data²</td><td>0</td><td>0 ()</td></high>	0	0 ()	183	34.9 (19.4-54.4)		sufficient data ²	0	0 ()	
High school diploma	Insuf	ficient data ²	227	17.8 (10.3-29.0)	314	8.5 (4.2-16.7)		nsufficient data ²	
Some college	Insuf	ficient data ²	467	23.5 (16.2-32.8)	618	18.2 (12.0-26.8)		nsufficient data ²	
College graduate	377	1.5 (0.6-3.7)	771	35.8 (27.5-45.1)	553	22.0 (13.3-34.1)	546	12.0 (8.5-16.5)	
Insurance type									
Private	289	1.0 (0.4-2.8)	685	38.5 (29.9-48.0)	451	16.3 (9.9-25.6)	530	12.4 (8.8-17.3)	
Medicaid	Insuf	ficient data ²	977	25.7 (19.0-33.9)	1,163	12.2 (8.6-17.2)	109	9 (3.7-20.2)	
Other	0	0 ()	In	sufficient data ²	0	0 ()	0	0 ()	
Household poverty level									
≤100% FPL	0	0 ()	566	29.0 (20.9-38.6)	747	14.9 (9.5-22.8)		nsufficient data ²	
>100% FPL	609	1.9 (0.8-4.4)	1,129	32.3 (25.3-40.3)	799	12.9 (8.8-18.6)	568	11.6 (8.3-16.0)	
Nativity									
Non-US-born	Insuf	ficient data ²	778	19.8 (15.0-25.7)	612	7.7 (4.7-12.5)	423	8.8 (5.9-13.0)	
US-born	471	1.5 (0.5-4.0)	985	45.6 (35.5-56.1)	1,001	19.7 (13.8-27.3)	216	19.4 (11.4-31.2)	
Marital status									
Unmarried	Insuf	ficient data ²	1,029	35.6 (27.1-45.2)	986	14.0 (9.7-19.7)		nsufficient data ²	
Married	554	2 (0.8-4.9)	734	22.9 (17.5-29.3)	628	10.5 (6.4-16.8)	601	11.1 (7.9-15.3)	
WIC participation									
No	588	2 (0.8-4.7)	742	32.2 (25.0-40.4)	762	17.4 (11.4-25.6)	584	11.8 (8.5-16.2)	
Yes	Insuf	ficient data ²	1,022	27.5 (20.6-35.8)	851	9.9 (6.6-14.6)		nsufficient data ²	
Disability status									
No	487	1.5 (0.5-3.9)	1,336	26.0 (20.5-32.4)	988	9.0 (6.3-12.7)	569	10.4 (7.3-14.5)	
Yes	Insuf	ficient data ²	400	43.8 (30.8-57.7)	626	32 (19.9-47.2)		nsufficient data ²	
¹ n weighted to reflect birthing pop	ulation; ² Insuf	ficient data to report	(0 <n<5).< td=""><td></td><td></td><td></td><td></td><td></td></n<5).<>						

Table 9. Prevalence of feeling upset due to treatment based on racial/ethnic background by sociodemographic characteristics and race/ethnicity, MA PRAMS, 2021

	Whit	te non-Hispanic	Blac	ck non-Hispanic		Hispanic	Asia	n non-Hispanic
		Percentage		Percentage		Percentage		Percentage
Characteristic	n ¹	(95% CI)	n ¹	(95% CI)	n ¹	(95% CI)	n ¹	(95% CI)
Total	828	2.1 (1.1-3.9)	1,923	31.1 (25.6-37.2)	1,625	12.2 (9.2-16.1)	861	17.1 (12.8-22.5)
Age (years)								
<20	0	0 ()		sufficient data ²		sufficient data ²	0	0 ()
20-29	Ins	sufficient data ²	578	25.7 (17.8-35.6)	595	8.9 (5.4-14.4)	125	12.2 (5.1-26.7)
30-39	609	2.0 (1.0-4.2)	1,049	32.7 (26.1-40.1)	926	16.7 (11.7-23.4)	718	19.2 (14.1-25.6)
40+	Ins	sufficient data ²	235	50.3 (23.0-77.4)	In	sufficient data ²		Insufficient data ²
Education								
<high school<="" td=""><td>0</td><td>0 ()</td><td>In</td><td>sufficient data²</td><td>210</td><td>7.4 (3.6-14.7)</td><td></td><td>Insufficient data²</td></high>	0	0 ()	In	sufficient data ²	210	7.4 (3.6-14.7)		Insufficient data ²
High school diploma	Ins	sufficient data ²	276	18.1 (9.7-31.3)	360	10.0 (5.2-18.2)		Insufficient data ²
Some college	0	0 ()	611	30.2 (22.5-39.2)	508	14.4 (8.5-23.4)	0	0 ()
College graduate	727	2.6 (1.3-5.1)	869	42.8 (32.6-53.6)	518	17.4 (10.6-27.2)	754	19 (14.2-25.0)
Insurance type								
Private	426	1.5 (0.6-3.3)	919	43.6 (35.0-52.6)	592	17.5 (11.0-26.6)	664	17.9 (13.0-24.0)
Medicaid	Ins	sufficient data ²	973	26.7 (19.4-35.7)	900	10.1 (6.8-14.7)	142	15.1 (6.3-31.8)
Other	0	0 ()	0	0 ()		Insufficient data ²		Insufficient data ²
Household poverty level								
≤100% FPL	Ins	sufficient data ²	655	27.9 (19.6-38.1)	648	13.5 (8.4-20.8)		Insufficient data ²
>100% FPL	527	1.5 (0.7-3.2)	1,221	34.0 (26.8-42.1)	947	13.4 (9.3-19.0)	772	17.9 (13.3-23.7)
Nativity								
Non-US-born		sufficient data ²	902	25.1 (18.2-33.5)	1,044	12.8 (9.0-17.9)	501	13.1 (8.8-19.2)
US-born	408	1.2 (0.5-2.8)	1,021	39.5 (30.9-48.8)	582	11.3 (6.9-18.0)	359	29.9 (19.8-42.4)
Marital status								
Unmarried	0	0 ()	929	29.2 (22.0-37.7)	762	11.0 (7.3-16.4)		Insufficient data ²
Married	828	2.8 (1.5-5.2)	994	33.1 (25.2-42.1)	864	13.6 (9.2-19.6)	789	17.7 (13.1-23.4)
WIC participation								
No	627	1.9 (0.9-3.8)	1,008	36.2 (27.7-45.8)	991	19.6 (13.8-27.0)	718	17.5 (12.9-23.2)
Yes		Insufficient data ²	900	26.6 (20.0-34.5)	634	7.8 (4.8-12.3)		Insufficient data ²
Disability status								
No	627	1.8 (0.9-3.6)	1,513	30.5 (24.4-37.3)	926	8.3 (5.7-11.9)	789	17.7 (13.0-23.5)
Yes		sufficient data ²	410	35.0 (22.8-49.6)	662	32.7 (21.2-46.7)		Insufficient data ²
¹ n weighted to reflect birthing popu	ulation; ² Insuf	ficient data to report (0	<n<5).< td=""><td></td><td></td><td></td><td></td><td></td></n<5).<>					

	White	non-Hispanic	Bla	ack non-Hispanic	I	Hispanic	Asian non-Hispanic		
Characteristic	n ¹	Percentage (95% CI)	n ¹	Devecutere		Percentage (95% CI)	n ¹ Percentag (95% CI)		
Total	Insuf	ficient data ²	403	6.3 (4.3-9.2)	972	7.6 (5.4-10.7)	129	2.3 (1.1-4.6	
Age (years)								·	
<20	0	0 ()	0	0 ()	Insu	fficient data ²	0	. (
20-29	Insuf	ficient data ²	178	7.4 (4.1-13.0)	432	6.5 (3.8-10.9)	Insuff	icient data ²	
30-39	0	0 ()	213	6.8 (4.1-11.1)	395	8.0 (4.8-13.1)	111	2.8 (1.3-5.9	
40+	0	0 ()		Insufficient data ²	Insu	fficient data ²	0	0 (
Education								•	
<high school<="" td=""><td>0</td><td>0 ()</td><td></td><td>Insufficient data²</td><td>379</td><td>12.6 (7.1-21.4)</td><td>Insuff</td><td>icient data²</td></high>	0	0 ()		Insufficient data ²	379	12.6 (7.1-21.4)	Insuff	icient data ²	
High school diploma	0	0 ()		Insufficient data ²	Insu	fficient data ²	0	0 (
Some college	Insuf	ficient data ²	136	5.6 (3.0-10.2)	381	9.7 (5.5-16.3)	0	0 (
College graduate	0	0 ()	174	10.1 (5.9-16.9)	Insu	fficient data ²	103	2.5 (1.2-5.4	
Insurance type				, , , , , , , , , , , , , , , , , , , ,				•	
Private	0	0 ()	206	9.7 (5.9-15.8)	153	5.4 (2.5-11.5)	103	2.6 (1.2-5.6	
Medicaid	Insuf	ficient data ²	181	4.7 (2.6-8.3)	668	7.6 (4.9-11.6)	Insuff	icient data ²	
Other	0	0 ()		Insufficient data ²	0	0 ()	0	0 (
Household poverty level									
≤100% FPL	Insuf	ficient data ²	165	8.3 (4.5-14.8)	542	9.6 (5.9-15.1)	0	0 (
>100% FPL	0	0 ()	222	5.8 (3.5-9.4)	287	5.0 (2.7-9.0)	129	2.7 (1.3-5.6	
Nativity				, , , , , , , , , , , , , , , , , , ,		· · · · ·			
Non-US-born	0	0 ()	117	3.2 (1.6-6.2)	562	8.4 (5.3-13.0)	Insuff	icient data ²	
US-born	Insuf	ficient data ²	286	10.7 (6.8-16.5)	385	6.4 (3.7-11.0)	Insuff	icient data ²	
Marital status				, , , , , , , , , , , , , , , , , , ,		` ,			
Unmarried	0	0 ()	200	6.2 (3.5-10.7)	591	8.0 (5.0-12.5)	0	0 (
Married	Insuf	ficient data ²	203	6.5 (3.9-10.6)	381	7.2 (4.3-11.7)	129	2.5 (1.2-5.1	
WIC participation				, , , , , , , , , , , , , , , , , , , ,		, , ,	ľ	,	
No	0	0 ()	267	10 (6.4-15.3)	254	5.9 (3.1-10.9)	103	2.4 (1.1-5.1	
Yes	Insuf	ficient data ²	137	3.8 (1.9-7.4)	718	8.6 (5.7-12.7)		icient data ²	
Disability status				, , , , , , , , , , , , , , , , , , , ,		, , , ,			
No	0	0 ()	286	5.1 (3.3-7.8)	658	6.2 (4.1-9.4)	111	2.1 (1.0-4.	
Yes	Insuf	ficient data ²	117	15.5 (7.5-29.3)	314	15.3 (8.3-26.3)	Insuff	icient data ²	

Table 11. Prevalence of feeling physical symptoms due to treatment based on racial/ethnic background by sociodemographic characteristics, MA PRAMS, 2020

	White	e non-Hispanic		Black non-Hispanic		Hispanic	Asia	n non-Hispanic
Characteristic	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	Ins	ufficient data ²	829	13.7 (9.6-19.1)	836	6.4 (4.3-9.6)	217	3.7 (2.0-6.5)
Age (years)								
<20	0	0 ()		Insufficient data ²		Insufficient data ²	0	0 ()
20-29	0	0 ()	262	12.0 (6.8-20.4)	520	7.8 (4.6-13.0)	0	0 ()
30-39	Ins	ufficient data ²	396	12.5 (8.8-17.6)	241	4.8 (2.2-10.0)	217	5.2 (2.9-9.1)
40+	Ins	ufficient data ²		Insufficient data ²		Insufficient data ²	0	0 ()
Education								
<high school<="" td=""><td>0</td><td>0 ()</td><td>81</td><td>16.0 (6.6-34)</td><td></td><td>Insufficient data²</td><td>0</td><td>0 ()</td></high>	0	0 ()	81	16.0 (6.6-34)		Insufficient data ²	0	0 ()
High school diploma	0	0 ()	114	8.9 (4.0-18.6)	262	7.1 (3.3-14.4)	Ins	ufficient data ²
Some college	0	0 ()	215	10.8 (6.2-18.3)	257	7.6 (3.9-14.4)	Ins	ufficient data ²
College graduate	Ins	ufficient data ²	304	14.2 (9.0-21.7)	196	7.8 (3.5-16.2)	162	3.6 (1.9-6.6)
Insurance type								
Private	Ins	ufficient data ²	220	12.5 (7.5-20.0)	198	7.3 (3.3-15.3)	201	4.7 (2.5-8.6)
Medicaid	Ins	ufficient data ²	565 14.9 (9.3-23.1)		199	6 (3.7-9.7)	Ins	ufficient data ²
Other	0	0 ()		Insufficient data ²	0	0 ()	0	0 ()
Household poverty level								
≤100% FPL	0	0 ()	321	16.6 (10.5-25.2)	451	9.0 (5.2-15.1)	Ins	ufficient data ²
>100% FPL	Ins	ufficient data ²	481	13.8 (8.3-22.3)	263	4.3 (2.0-8.8)	168	3.4 (1.8-6.4)
Nativity								
Non-US-born	Ins	ufficient data ²	331	8.4 (5.5-12.7)	301	3.8 (1.9-7.5)	142	2.9 (1.4-6.1)
US-born	Ins	ufficient data ²	498	23.2 (14.2-35.6)	535	10.5 (6.3-17.0)	Ins	ufficient data ²
Marital status								
Unmarried	Ins	ufficient data ²	496	17.3 (10.3-27.6)	626	8.9 (5.5-14.0)	0	0 ()
Married	Ins	ufficient data ²	334	10.4 (7.0-15.4)	210	3.5 (1.6-7.6)	217	4.0 (2.2-7.1)
WIC participation								
No	Ins	ufficient data ²	220	9.6 (5.8-15.6)	383	8.7 (5.0-14.7)	201	4.1 (2.2-7.4)
Yes	Ins	ufficient data ²	609	16.5 (10.6-24.8)	453	5.3 (2.9-9.4)	Ins	ufficient data ²
Disability status								
No	Ins	ufficient data ²	563	11.0 (6.8-17.2)	589	5.4 (3.3-8.7)	217	4.0 (2.2-7.1)
Yes	Inc	ufficient data ²	240	26.2 (16.0-39.9)	247	12.6 (6.1-24.4)	0	0 ()

Table 12. Prevalence of feeling physical symptoms due to treatment based on racial/ethnic background by sociodemographic characteristics, MA PRAMS, 2021

	Whit	te non-Hispanic	Bla	ck non-Hispanic		Hispanic	Asia	an non-Hispanic
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)	n¹	Percentage (95% CI)
Total	Ins	sufficient data ²	855	13.9 (9.5-19.8)	880	6.6 (4.5-9.7)	250	5.0 (2.7-9.0)
Age (years)								
<20	Ins	sufficient data ²	In	sufficient data ²		Insufficient data ²	0	0 ()
20-29	Ins	sufficient data ²	278	12.4 (6.9-21.3)	316	4.7 (2.3-9.3)	In	sufficient data ²
30-39	Ins	sufficient data ²	368	11.5 (7.5-17.3)	490	8.8 (5.3-14.3)	197	5.3 (2.7-10.0)
40+	Ins	sufficient data ²	In	sufficient data ²		Insufficient data ²	In	sufficient data ²
Education								
<high school<="" td=""><td>Ins</td><td>sufficient data²</td><td>In</td><td>sufficient data²</td><td>157</td><td>5.6 (2.3-12.6)</td><td>0</td><td>0 ()</td></high>	Ins	sufficient data ²	In	sufficient data ²	157	5.6 (2.3-12.6)	0	0 ()
High school diploma	Ins	sufficient data ²	In	sufficient data ²	296	8.2 (4.2-15.5)	In	sufficient data ²
Some college	Ins	sufficient data ²	255	12.7 (7.7-20.1)	212	6.0 (2.5-13.9)	0	0 ()
College graduate	Ins	sufficient data ²	302	14.9 (6.8-29.6)	185	6.2 (2.6-14.0)	179	4.5 (2.4-8.6)
Insurance type								
Private	Ins	sufficient data ²	236	11.2 (6.8-18.0)	222	6.6 (3.0-13.7)	143	3.9 (1.8-8.0)
Medicaid	Ins	sufficient data ²	603	16.6 (10.2-25.9)	554	6.2 (3.7-10.1)	In	sufficient data ²
Other	Ins	sufficient data ²	0	0 ()		Insufficient data ²	0	0 ()
Household poverty level								
≤100% FPL	Ins	sufficient data ²	399	17 (10.5-26.5)	383	8.0 (4.3-14.3)	In	sufficient data ²
>100% FPL	Ins	sufficient data ²	440	12.3 (6.8-21.2)	437	6.2 (3.6-10.5)	179	4.2 (2.2-7.9)
Nativity								
Non-US-born	Ins	sufficient data ²	429	12.0 (6.5-21.2)	557	6.8 (4.2-10.9)	143	3.8 (1.7-8.3)
US-born	Ins	sufficient data ²	426	16.5 (10.5-24.8)	323	6.3 (3.1-12.1)	107	8.9 (3.7-20.1)
Marital status								
Unmarried	Ins	sufficient data ²	468	14.7 (9.4-22.4)	349	5.0 (2.7-9.1)	In	sufficient data ²
Married	Ins	sufficient data ²	387	13.0 (6.8-23.2)	531	8.3 (5.0-13.6)	215	4.8 (2.6-8.9)
WIC participation								
No	Ins	sufficient data ²	347	12.5 (6.0-24.0)	504	9.9 (6.0-16.0)	161	3.9 (2.0-7.8)
Yes	Ins	sufficient data ²	493	14.7 (9.6-21.7)	376	4.6 (2.5-8.5)	In	sufficient data ²
Disability status								
No	Ins	sufficient data ²	565	11.4 (6.9-18.2)	423	3.8 (2.2-6.5)	214	4.8 (2.5-9.2)
Yes		sufficient data ²	290	25.1 (14.4-40.1)	457	22.6 (13.2-35.9)	In	sufficient data ²
¹ n weighted to reflect birthing pop	oulation; ² Insu	ifficient data to repor	t (0 <n<5).< td=""><td></td><td></td><td></td><td></td><td></td></n<5).<>					
In weighted to reflect birthing pop		inicient uata to repor	$(0 \le 0)$.					

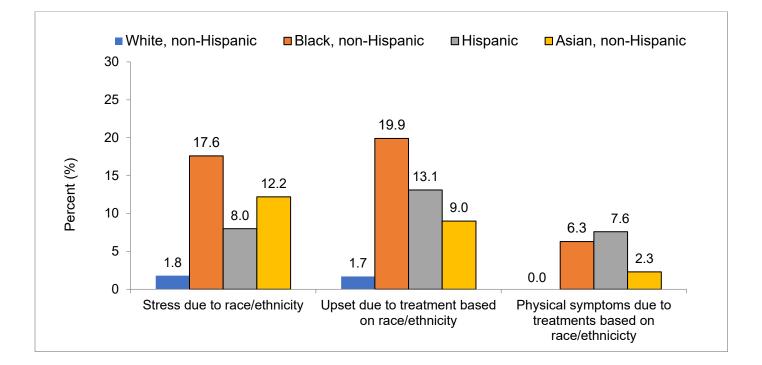
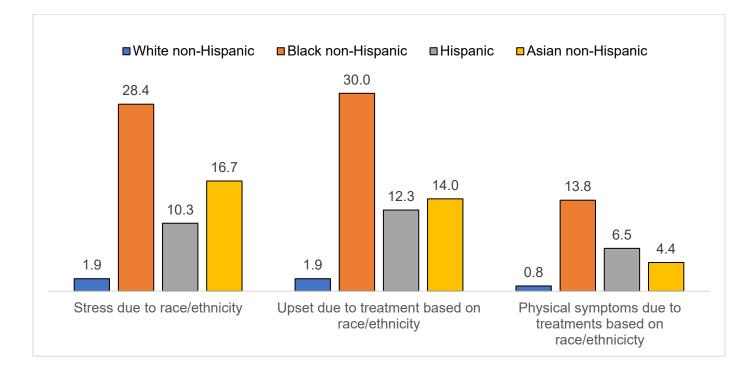


Figure 11. Prevalence of reactions to racism during the 12 months before delivery, MA PRAMS 2019

Figure 12. Prevalence of reactions to racism during the 12 months before delivery, MA PRAMS 2020-2021 combined



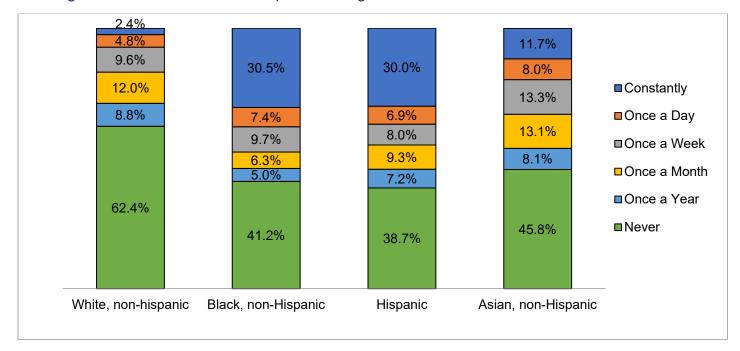
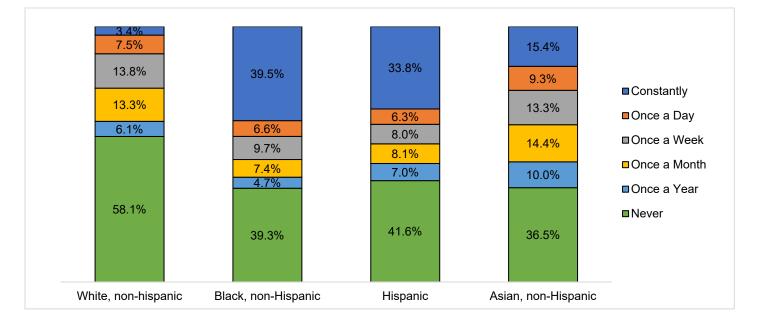




Figure 14. Prevalence of time spent thinking about race, MA PRAMS 2020-2021.



	Pai	d leave only	Unpa	aid leave only	Both	paid and unpaid leave	No leave		
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	
Total	17,584	40.7 (36.8-44.6)	17,136	39.6 (35.8-43.6)	6,596	15.2 (12.6-18.4)	1,936	4.5 (3.3-6.1)	
Race/ethnicity									
White, non-Hispanic	12,465	42.8 (37.4-48.4)	10,869	37.4 (32.1-42.9)	4,986	17.1 (13.4-21.7)	778	2.7 (1.4-4.9)	
Black, non-Hispanic	1,246	31.5 (25.0-38.9)	1,964	49.7 (42.5-57.0)	517	13.1 (9.4-18.0)	222	5.6 (3.2-9.8)	
Hispanic	1,681	28.7 (22.7-35.4)	3,060	52.2 (45.0-59.2)	647	11.0 (7.3-16.4)	476	8.1 (4.9-13.2)	
Asian, non-Hispanic	1,847	54.4 (47.2-61.4)	822	24.2 (18.6-30.9)	403	11.9 (8.0-17.3)	323	9.5 (5.9-15.1)	
Other, non-Hispanic	119	31.2 (14.7-54.6)	195	51.1 (29.4-72.3)		Insufficient data ²	Ins	ufficient data ²	
Age (years)									
<20	Insu	ufficient data ²		ufficient data ²	0	0 ()	0	0 ()	
20-29	2,930	26.2 (20.4-33.0)	6,652	59.5 (52.3-66.2)	1,213	10.8 (7.2-15.9)	395	3.5 (2.0-6.1)	
30-39	13,794	46.7 (41.8-51.7)	9,421	31.9 (27.5-36.6)	4,967	16.8 (13.4-20.9)	1,362	4.6 (3.1-6.8)	
40+	818	34.1 (20.4-51.1)	983	41 (26.3-57.5)	415	17.3 (7.9-33.9)	180	7.5 (2.5-20.5)	
Education									
<high school<="" td=""><td>153</td><td>10.2 (4.3-22.1)</td><td>1,058</td><td>70.2 (54.7-82.2)</td><td>115</td><td>7.6 (3.0-17.9)</td><td>181</td><td>12.0 (5.3-25.0)</td></high>	153	10.2 (4.3-22.1)	1,058	70.2 (54.7-82.2)	115	7.6 (3.0-17.9)	181	12.0 (5.3-25.0)	
High school diploma	952	21.4 (13.9-31.3)	2,683	60.2 (49.7-69.8)	413	9.3 (4.6-17.7)	409	9.2 (5.5-14.9)	
Some college	3,017	30.4 (23.6-38.3)	5,532	55.8 (47.8-63.5)	1,035	10.4 (6.6-16.0)	330	3.3 (1.8-6.0)	
College graduate	12,845	49.2 (43.9-54.6)	7,337	28.1 (23.6-33.2)	4,889	18.7 (14.9-23.3)	1,016	3.9 (2.3-6.5)	
Insurance type									
Private	15,660	49.9 (45,0-54.8)	8,783	28.0 (23.8 32.6)	5,770	18.4 (14.9-22.4)	1,163	3.7 (2.3-5.9)	
Medicaid	1,552	15.1 (11.2-20.1)	7,464	72.7 (66.7-78.0)	612	6.0 (3.4-10.3)	633	6.2 (4.1-9.2)	
Other	Insu	ufficient data ²	733	78.8 (60.0-90.2)		Insufficient data ²			
Household poverty level									
≤100% FPL	680	13.7 (9.1-20.1)	3,578	72.1 (64.0-79.0)	157	3.2 (1.4-7.2)	548	11 (7.1-16.8)	
>100% FPL	16,758	44.6 (40.3-49.0)	13,143	35.0 (30.9-39.2)	6,349	16.9 (13.8-20.4)	1,346	3.6 (2.4-5.4)	
Nativity						· · · · · · · · · · · · · · · · · · ·	0	(-)	
Non-US-born	3409	33.3 (28.0-39.1)	4613	45.1 (39.2-51.2)	1264	12.4 (8.7-17.2)	942	9.2 (6.7-12.6)	
US-born	14175	42.9 (38.2-47.8)	12523	37.9 (33.3-42.7)	5331	16.1 (12.9-20.0)	994	3 (1.8-5.1)	
Marital status					-	· · · · · · · · · · · · · · · · · · ·			
Unmarried	3,126	28.1 (21.9-35.1)	6,415	57.6 (50.4-64.5)	1,107	9.9 (6.7-14.5)	491	4.4 (2.7-7.1)	
Married	14,458	45.0 (40.4-49.8)	10,720	33.4 (29.1-38.0)	5,489	17.1 (13.7-21.1)	1,445	4.5 (3.0-6.6)	
WIC participation						· · · · · · · · · · · · · · · · · · ·		,	
No	15,914	47.7 (43.0-52.4)	10,387	31.1 (26.9-35.7)	5,841	17.5 (14.2-21.4)	1,234	3.7 (2.4-5.8)	
Yes	1,541	16.2 (12.3-20.9)	6,682	70.1 (64.1-75.4)	627	6.6 (4.1-10.3)	686	7.2 (4.9-10.5)	
Disability status		,		· · · · /		, , , , , , , , , , , , , , , , , , ,			
No	16,156	40.9 (36.9-45.1)	15,296	38.7 (34.8-42.9)	6,166	15.6 (12.8-19.0)	1,870	4.7 (3.4-6.5)	
Yes	1.428	37.9 (25.9-51.6)	1,840	48.9 (36.0-61.9)	429	11.4 (6.0-20.7)		ufficient data ²	

	Paid I	eave only	Unpaid	leave only	Both pai	id and unpaid leave	No leave		
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	
Total	18,726	47.5 (43.0-51.9)	13,082	33.2 (29.1-37.5)	5,172	13.1 (10.4-16.4)	2,475	6.3 (4.5-8.7)	
Race/ethnicity									
White, non-Hispanic	13,488	50.2 (44.0-56.3)	8,114	30.2 (24.7-36.3)	3,844	14.3 (10.6-19.0)	1,427	5.3 (3.1-9.0)	
Black, non-Hispanic	1,197	37.8 (31.2-44.8)	1,446	45.6 (38.7-52.8)	262	8.3 (5.1-13.1)	265	8.3 (5.3-13.0)	
Hispanic	1,935	37.9 (30.5-46.0)	2,245	44.0 (36.1-52.2)	392	7.7 (4.4-13.0)	531	10.4 (6.1-17.1)	
Asian, non-Hispanic	2,005	54.9 (47.6-62.0)	1,043	28.5 (22.4-35.5)	375	10.3 (6.6-15.6)	230	6.3 (3.4-11.4)	
Age (years)		· · · · ·						\$ 4	
<20	0	0 ()	Insuffic	cient data ²	Ins	sufficient data ²	Ins	ufficient data ²	
20-29	3,223	33.0 (25.1-42.0)	4,819	49.4 (40.5-58.3)	872	8.9 (5.0-15.4)	843	8.6 (4.8-15)	
30-39	14,197	53.3 (47.8-58.7)	7,026	26.4 (21.8-31.5)	4,053	15.2 (11.7-19.6)	1,363	5.1 (3.2-8.0)	
40+	1,306	47.2 (31.9-63.0)	1,099	39.7 (25.3-56.2)	Ins	sufficient data ²	132	4.8 (1.0-19.2)	
Education				· · · · · · · · · · · · · · · · · · ·					
<high school<="" td=""><td>233</td><td>20.6 (10.3-36.9)</td><td>395</td><td>35.0 (19.4-54.7)</td><td>Ins</td><td>sufficient data²</td><td>403</td><td>35.7 (19.2-56.4)</td></high>	233	20.6 (10.3-36.9)	395	35.0 (19.4-54.7)	Ins	sufficient data ²	403	35.7 (19.2-56.4)	
High school diploma	503	14.7 (7.5-26.9)	2,457	71.7 (58.3-82.1)		sufficient data ²	352	10.3 (4.8-20.7)	
Some college	2,631	35.8 (26.6-46.3)	3,558	48.5 (38.5-58.5)	592	8.1 (4.3-14.7)	562	7.7 (3.9-14.4)	
College graduate	15,359	56.5 (51.0-61.9)	6,397	23.5 (19.2-28.5)	4,266	15.7 (12.1-20.2)	1,158	4.3 (2.4-7.4)	
Insurance type				· · · · · · · · · · · · · · · · · · ·				,	
Private	16,561	54.7 (49.5-59.8)	7,821	25.8 (21.5-30.6))	4,648	15.3 (11.9-19.5)	1,257	4.1 (2.5-6.7)	
Medicaid	1,753	21.3 (15.1-29.1)	4,823	58.6 (49.6-67.1)	491	6.0 (3.4-10.4)	1,163	14.1 (8.7-22.1)	
Other	250	45.1 (13.6-81.1)	Insuffic	cient data ²	Ins	sufficient data ²	0	0 ()	
Household poverty level		· · · · ·							
≤100% FPL	332	9.9 (5.8-16.4)	2,159	64.4 (50.9-75.9)	162	4.8 (2.2-10.4)	702	20.9 (11.1-35.9)	
>100% FPL	17,903	51.5 (46.7-56.3)	10,412	30.0 (25.7-34.6)	4,760	13.7 (10.7-17.4)	1,665	4.8 (3.2-7.2)	
Nativity									
Non-US-born	4,351	42.7 (36.3-49.4)	3,886	38.1 (31.9-44.8)	1,100	10.8 (7.0-16.2)	857	8.4 (5.0-13.9)	
US-born	14,375	49.1 (43.6-54.7)	9,197	31.4 (26.5-36.9)	4,072	13.9 (10.6-18.1)	1,618	5.5 (3.6-8.5)	
Marital status									
Unmarried	2,780	33.1 (24.8-42.5)	4,269	50.8 (41.3-60.3)	650	7.7 (4.1-14.3)	699	8.3 (4.7-14.3)	
Married	15,946	51.3 (46.3-56.3)	8,813	28.4 (24.1-33.1)	4,521	14.6 (11.3-18.5)	1,776	5.7 (3.8-8.6)	
WIC participation									
No	16,936	53.2 (48.1-58.2)	8,697	27.3 (23.0-32.1)	4,765	15.0 (11.7-19.0)	1,438	4.5 (2.9-7.0)	
Yes	1,790	23.6 (16.7-32.3)	4,358	57.4 (48.0-66.3)	407	5.4 (3.2-8.8)	1,037	13.7 (8.2-21.8)	
Disability status		, , ,		· · · · · ·		, , ,		· · · · ·	
No	17,483	48.5 (43.9-53.2)	11,344	31.5 (27.3-35.9)	4,968	13.8 (10.8-17.4)	2,258	6.3 (4.4-8.9)	
Yes	1.243	37.1 (24.0-52.4)	1,722	51.4 (36.3-66.2)	203	6.1 (2.1-16.2)		ufficient data ²	

	Paid leave only		Unp	aid leave only	Both paid	and unpaid leave	No	leave
Characteristic	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	28,236	66.2 (61.8-70.3)	8,713	20.4 (17.0-24.3)	3,457	8.1 (5.9-11.0)	2,267	5.3 (3.7-7.6)
Race/ethnicity				, , , , , , , , , , , , , , , , , , ,		· · · ·		· · · ·
White, non-Hispanic	20,015	68.2 (62.2-73.6)	5,268	17.9 (13.7-23.2)	2,851	9.7 (6.7-14.0)	1,221	4.2 (2.3-7.5)
Black, non-Hispanic	2,006	59.9 (52.2-67.1)	902	26.9 (20.5-34.5)	228	6.8 (4.1-11.1)	214	6.4 (3.4-11.7)
Hispanic	2,999	57.0 (48.5-65.1)	1,432	27.2 (20.3-35.5)	252	4.8 (2.3-9.6)	581	11.0 (6.7-17.7)
Asian, non-Hispanic	2,228	69.3 (61.7-76.0)	609	19.0 (13.4-26.1)	126	3.9 (1.9-7.9)	251	7.8 (4.6-13.1)
Age (years)		\$ 7 F						
<20	In	sufficient data ²	Ins	ufficient data ²	Ins	ufficient data ²	Insuffic	ient data ²
20-29	4,459	48.5 (39.2-57.9)	3,011	32.8 (24.6-42.0)	781	8.5 (4.1-16.9)	942	10.2 (5.9-17.2)
30-39	22,538	71.0 (66.0-75.6)	5,351	16.9 (13.2-21.3)	2,675	8.4 (5.9-11.9)	1,159	3.7 (2.2-6.1)
40+	1,239	76.2 (53.5-89.9)	250	15.4 (5.1-38.2)		ufficient data ²	Insuffic	ient data ²
Education		\$ 7 F						
<high school<="" td=""><td>519</td><td>44.6 (24.0-67.2)</td><td>329</td><td>28.3 (14.6-47.7)</td><td>Ins</td><td>ufficient data²</td><td>286</td><td>24.5 (10.6-47)</td></high>	519	44.6 (24.0-67.2)	329	28.3 (14.6-47.7)	Ins	ufficient data ²	286	24.5 (10.6-47)
High school diploma	1,131	35.7 (22.3-51.6)	1,356	42.8 (27.7-59.3)		ufficient data ²	660	20.8 (9.6-39.3)
Some college	3,598	52.2 (41.2-63.0)	2,580	37.4 (27.3-48.8)	286	4.1 (1.3-12.1)	429	6.2 (3.2-11.8)
College graduate	22,584	74.0 (69.0-78.4)	3,964	13.0 (9.8-17.0)	3,116	10.2 (7.3-14.1)	863	2.8 (1.6-5.0)
Insurance type		\$ \$		\$ 4		· · · ·		· · · ·
Private	23,786	73.8 (68.9-78.2)	4,489	13.9 (10.6-18.1)	3,219	10 (7.2-13.8)	736	2.3 (1.2-4.2)
Medicaid	3,311	41.2 (31.9-51.1)	3,382	42.1 (32.6-52.1)	104	1.3 (0.5-3.1)	1,246	15.5 (9.7-23.8)
Other	703	47.5 (25.7-70.2)	578	39.0 (19.3-63.1)	Inst	ufficient data ²	Insuffic	ient data ²
Household poverty level								
≤100% FPL	1,160	39.4 (26.3-54.2)	1,269	43.1 (29.6-57.8)	Inst	ufficient data ²	473	16.1 (8.6-28)
>100% FPL	26,809	68.2 (63.6-72.5)	7,285	18.5 (15.1-22.6)	3,417	8.7 (6.3-11.9)	1,776	4.5 (2.9-6.9)
Nativity								
Non-US-born	5,796	59.1 (51.9-65.9)	2,205	22.5 (17.2-28.8)	459	4.7 (2.7-8.1)	1,349	13.8 (9.1-20.2)
US-born	22,440	68.3 (63.0-73.2)	6,508	19.8 (15.7-24.6)	2,997	9.1 (6.4-12.9)	918	2.8 (1.5-5.2)
Marital status								
Unmarried	4,865	51.0 (40.9-61.0)	3,325	34.8 (25.8-45.1)	736	7.7 (3.3-16.9)	617	6.5 (3.4-12.0)
Married	23,371	70.5 (65.8-74.9)	5,388	16.3 (12.9-20.3)	2,720	8.2 (5.9-11.4)	1,650	5.0 (3.2-7.6)
WIC participation								· · · ·
No	25,180	70.5 (65.7-74.9)	6,052	16.9 (13.4-21.1)	3,192	8.9 (6.4-12.3)	1,298	3.6 (2.1-6.1)
Yes	3,019	43.8 (34.1-53.9)	2,661	38.6 (29.2-48.9)	247	3.6 (1.0-12.4)	969	14.1 (8.9-21.5)
Disability status		, , ,		. /				, ,
No	26,454	68.2 (63.6-72.4)	7,134	18.4 (15.0-22.3)	3,304	8.5 (6.1-11.7)	1,921	4.9 (3.3-7.3)
Yes	1,644	44.9 (31.4-59.3)	1,515	41.4 (27.8-56.5)		ufficient data ²	346	9.5 (3.9-21.1)

		Total	White	e non-Hispanic	Blac	k non-Hispanic		Hispanic	Asian non-Hispanic		
Reasons for not taking leave	n¹	Percentage (95% Cl)	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	
Could not afford	10,333	24.8 (21.5-28.5)	6,592	23.2 (18.8-28.3)	1,266	35.8 (28.6-43.8)	1,524	27.1 (21.1-34.0)	641	20.4 (15.0-27.2	
Afraid to lose job	5,868	14.3 (11.6-17.5)	4,063	14.5 (10.9-19.1)	625	18.1 (12.0-26.4)	529	9.4 (5.9-14.7)	584	18.4 (13.4-24.8	
Too much work	4,676	11.4 (9.0-14.4)	3,322	12.0 (8.7-16.2)	327	9.4 (4.6-18.3)	326	5.8 (3.3-10.0)	549	17.6 (12.6-23.9	
No paid leave	12,898	31.2 (27.5-35.1)	8,403	30.0 (25.1-35.5)	1,374	38.7 (31.3-46.6)	2,139	37.2 (30.5-44.5)	634	20.3 (15.0-27.0	
No flexible schedule	6,553	16.0 (13.3-19.1)	3,687	13.2 (9.8-17.6)	879	25.2 (19.5-31.8)	1,198	21.6 (16.2-28.2)	525	16.9 (12.1-23.0	
Not enough leave time	9,990	24.4 (21.0-28.2)	6,477	23.2 (18.7-28.5)	1,317	37.6 (30.2-45.6)	1,360	24.7 (18.8-31.8)	644	20.8 (15.4-27.3	

Table 17. Prevalence	e of reasons for no le	ave by race/ethnicity, M	A PRAMS, 2020

		Total	White	non-Hispanic	Blac	k non-Hispanic		Hispanic	Asia	n non-Hispanic							
Reasons for not taking leave	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)							
Could not afford	8,188	21.2 (17.8-25.1)	5,077	19.0 (14.5-24.4)	786	26.5 (20.6-33.5)	1,352	28.3 (21.4-36.4)	916	26.5 (20.3-33.8)							
Afraid to lose job	6,992	18.1 (15.0-21.7)	4,344	16.2 (12.2-21.3)	640	21.6 (16.2-28.3)	1,003	21.0 (15.0-28.6)	927	26.4 (20.3-33.7)							
Too much work	3,721	9.6 (7.4-12.6)	2,579	9.6 (6.6-13.8)	205	7.0 (4.1-11.6)	451	9.5 (5.6-15.9)	412	11.9 (7.9-17.6)							
No paid leave	10,839	28.1 (24.2-32.4)	7,421	27.7 (22.5-33.7)	929	31.9 (25.4-39.2)	1,484	30.9 (23.6-39.3)	826	23.9 (18.1-30.9)							
No flexible schedule	5,557	14.5 (11.6-17.9)	3,232	12.1 (8.5-17.0)	527	18.0 (13.0-24.2)	1,163	24.9 (18.2-32.9)	558	16.2 (11.4-22.4)							
Not enough leave time	6,886	18.0 (14.9-21.6)	4,664	17.5 (13.4-22.5)	801	27.0 (21.0-34.0)	712	15.5 (10.3-22.7)	630	18.3 (13.2-25.0)							
¹ n weighted to reflect birthin	g population	; ² Insufficient data to	report (0<	n<5). ² Insufficient da	¹ n weighted to reflect birthing population; ² Insufficient data to report (0 <n<5).<sup>2Insufficient data to report (0<n<5)< td=""></n<5)<></n<5).<sup>												

	Total		White non-Hispanic		Black	non-Hispanic		Hispanic	Asian non-Hispanic		
Reasons for not taking leave	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	
Could not afford	7,464	18.3 (15.0-22.2)	4,419	15.6 (11.0-20.3)	740	24.1 (17.0-31.2)	1,284	25.8 (18.3-33.3)	592	19.6 (13.1-26.1)	
Afraid to lose job	4,285	10.5 (8.0-13.6)	2,671	9.5 (5.7-13.2)	402	13.1 (7.8-18.4)	656	13.0 (7.2-18.8)	538	17.8 (11.5-24.1)	
Too much work	5,299	13.0 (10.2-16.4)	3,683	13.0 (9.0-17.1)	330	10.8 (5.9-15.7)	511	10.2 (5.1-15.2)	486	16.1 (10.6-21.6)	
No paid leave	8,748	21.3 (17.8-25.4)	5,454	19.3 (14.3-24.3)	644	21.0 (14.5-27.4)	1,378	27.3 (19.6-34.9)	663	21.9 (15.2-28.6)	
No flexible schedule	6,181	15.1 (12.1-18.7)	3,922	13.9 (9.7-18.1)	413	13.4 (8.3-18.6)	1,129	22.1 (15.0-29.1)	270	8.9 (4.7-13.2)	
Not enough leave time	6,293	15.5 (12.4-19.2)	4,215	15.0 (10.5-19.5)	551	18.3 (11.8-24.8)	827	16.8 (10.4-23.3)	413	13.7 (8.2-19.2)	

Table 19. Prevalence of depression screening and self-reported postpartum depressive symptoms by sociodemographic characteristics, MA PRAMS, 2019

		on screening during renatal care		ssion screening postpartum visit		orted postpartum sive symptoms ³
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)
Total	56,364	86.9 (84.6-88.9)	57,556	87.8 (85.7-89.6)	6,732	10.2 (8.6-12.0)
Race/ethnicity		· · · · · ·		· · · · · ·		, ,
White, non-Hispanic	33,677	86.1 (82.4-89.1)	35,550	90.4 (87.1-92.9)	2,726	6.9 (4.8-9.7)
Black, non-Hispanic	5,785	91.4 (88.1-93.9)	5,463	85.2 (79.8-89.3)	1,072	16.7 (13.1-21.1)
Hispanic	11,291	90.3 (87.0-92.9)	10,434	81.4 (77.3-85.0)	1,786	13.9 (10.8-17.7)
Asian, non-Hispanic	4,409	78.6 (73.6-82.9)	4,950	87.0 (82.6-90.4)	1,015	17.7 (13.7-22.4)
Other, non-Hispanic	492	86.6 (66.6-95.5)	525	83.7 (66.3-93.1)	94	15.0 (6.4-31.5)
Age (years)				(/	-	
<20	972	93.3 (76.1-98.4)	754	72.4 (52.7-86.1)	144	13.9 (5.1-32.8)
20-29	18,452	88.9 (85.1-91.9)	17,629	84.3 (80.2-87.8)	2,725	13 (10.1-16.6)
30-39	33,604	84.9 (81.6-87.7)	36,005	89.7 (87.0-91.9)	3,701	9.1 (7.2-11.5)
40+	3,336	96.0 (91.9-98.0)	3,169	90.4 (81.6-95.2)	162	4.6 (2.3-8.9)
Education			-,	(/	-	- ()
<high school<="" td=""><td>4,091</td><td>87.8 (78.6-93.4)</td><td>3,544</td><td>73.1 (63.6-80.8)</td><td>662</td><td>13.7 (9.2-19.9)</td></high>	4,091	87.8 (78.6-93.4)	3,544	73.1 (63.6-80.8)	662	13.7 (9.2-19.9)
High school diploma	8,520	89.1 (84.2-92.6)	7,706	80.5 (74.2-85.6)	1,408	14.7 (10.4-20.2)
Some college	13,965	91.1 (86.6-94.2)	14,117	89.7 (85.6-92.7)	2,051	1.03 (9.5-17.6)
College graduate	28,148	83.9 (80.2-87.1)	30,609	90.9 (87.8-93.2)	2,309	6.8 (5.0-9.1)
Insurance type					,	
Private	32,949	84.7 (81.3-87.6)	35,987	91.6 (88.9-93.7)	2,746	6.9 (5.2-9.2)
Medicaid	20,580	91.3 (88.2-93.6)	19,017	83.2 (79.4-86.4)	3,335	14.5 (11.6-18.0)
Other	1,464	86.0 (66.9-94.9)	1,390	78.7 (61.5-89.5)	190	10.8 (4.8-22.5)
Household poverty level	.,		.,			
≤100% FPL	11,502	89.8 (85.4-92.9)	10,509	80.4 (7.05-84.8)	2,074	15.7 (12.1-20.2)
>100% FPL	42,573	86.1 (83.3-88.6)	45,164	90.3 (87.9-92.2)	4,241	8.4 (6.7-10.5)
Nativity						
Non-US-born	16,125	87.4 (83.9-90.2)	15,862	84.1 (80.7-87.0)	2,891	15.2 (12.5-18.4)
US-born	40,213	86.7 (83.7-89.2)	41,669	89.3 (86.5-91.5)	3,841	8.2 (6.3-10.5)
Marital status						
Unmarried	18,772	90.3 (86.5-93.1)	17,466	83.2 (79.0-86.7)	2,712	12.9 (10.0-16.4)
Married	37,591	85.3 (82.3-87.9)	40,090	89.9 (87.5-91.9)	4,020	8.9 (7.2-11.1)
WIC participation		. ,		. ,		, , ,
No	38,267	85.6 (82.6-88.2)	40,472	90.3 (87.7-92.3)	3,735	8.3 (6.5-10.5)
Yes	17,837	89.9 (86.5-92.6)	16,738	82.3 (78.3-85.7)	2,997	14.6 (11.6-18.1)
Disability status		· · · · /		· · · · · ·		
No	49,813	86.5 (84.0-88.7)	51,389	87.8 (85.5-89.8)	5,202	8.8 (7.3-10.7)
Yes	6,075	90.5 (84.6-94.3)	5,967	88.1 (81.1-92.7)	1,479	21.7 (15.5-29.6)
¹ n weighted to reflect bir		, ,		· /		, ,

Table 20. Prevalen symptoms by socio			•			
<u> </u>	Depres	ssion screening prenatal care	Depre	ssion screening during stpartum visit		orted postpartum sive symptoms ³
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	54,096	86.8 (84.3-89.0)	52,959	84.2 (81.6-86.5)	6,314	10.0 (8.1-12.2)
Race/ethnicity						
White, non-Hispanic	30,831	85.9 (81.6-89.3)	32,258	87.9 (83.7-91.1)	2,635	7.2 (4.7-10.9)
Black, non-Hispanic	5,620	91.3 (87.8-93.9)	4,753	77.9 (73.1-82.1)	1,005	16.3 (12.0-21.7)
Hispanic	11,923	90.7 (87.0-93.4)	9,986	77.1 (72.2-81.3)	1,261	9.7 (6.9-13.3)
Asian, non-Hispanic	4,532	77.9 (72.6-82.4)	5,012	84.9 (80.0-88.7)	1,199	20.0 (15.7-25.2)
Other, non-Hispanic	322	79.2 (51.6-93.1)	341	91.3 (71.1-97.8)	109	29.2 (12.4-54.7)
Age (years)				· · · · · · · · · · · · · · · · · · ·		
<20	1,279	88.3 (66.5-96.6)	1,063	76.6 (56.3-89.3)	305	21.9 (9.5-42.8)
20-29	18,596	91.5 (87.4-94.4)	16,380	80.0 (74.8-84.5)	2,546	12.4 (9.0-16.9)
30-39	30,788	84.3 (80.7-87.3)	31,900	86.3 (83.0-89.1)	2,922	7.9 (5.8-10.7)
40+	3,434	85.7 (73.4-92.9)	3,616	87.9 (79.7-93.1)	541	13.1 (6.6-24.4)
Education	0,101		0,010		• • •	
<high school<="" td=""><td>4.147</td><td>87.9 (79.6-93.1)</td><td>3,464</td><td>74.4 (64.5-82.3)</td><td>750</td><td>16.0 (9.8-25.0)</td></high>	4.147	87.9 (79.6-93.1)	3,464	74.4 (64.5-82.3)	750	16.0 (9.8-25.0)
High school diploma	8,447	90.8 (84.0-94.9)	6,937	73.3 (64.8-80.3)	1,448	15.1 (9.7-22.9)
Some college	11,730	90.9 (84.3-94.9)	10,710	82.1 (74.9-87.5)	1,533	11.7 (7.3-18.5)
College graduate	28,555	83.8 (80.0-86.9)	30,893	89.4 (86.3-91.9)	2,401	6.9 (5.1-9.3)
Insurance type					_,	
Private	31,146	85.3 (81.7-88.3)	33,021	88.5 (85.2-91.1)	2,676	7.2 (5.3-9.5)
Medicaid	20,796	92.3 (89.0-94.7)	17,904	79.9 (75.4-83.8)	3,233	14.3 (10.7-18.9)
Other	727	62.9 (36.3-83.4)	1,009	78.6 (57.4-90.9)		ufficient data ²
Household poverty			.,			
≤100% FPL	9,631	85.0 (77.9-90.1)	7,958	68.1 (60.5-74.7)	1,690	14.4 (9.9-20.3)
>100% FPL	40,319	86.8 (83.8-89.3)	42,045	88.6 (85.8-90.9)	3,863	8.1 (6.2-10.6)
Nativity			,• .•		0,000	
Non-US-born	18,469	86.4 (82.8-89.3)	17,176	80.1 (76.3-83.4)	3,114	14.4 (11.3-18.2)
US-born	35.627	87.1 (83.5-89.9)	35,783	86.3 (82.7-89.2)	3.200	7.7 (5.6-10.6)
Marital status		- (,		-,	
Unmarried	17,366	90.9 (86.3-94.1)	15,219	79.4 (73.8-84.0)	2,699	14.1 (10.3-19)
Married	36,730	85.0 (81.8-87.7)	37,740	86.3 (83.3-88.8)	3,615	8.2 (6.3-10.7)
WIC participation	00,100		01,110		0,010	
No	35,349	85.3 (82.0-88.1)	36,982	86.8 (83.7-89.4)	3,021	7.1 (5.3-9.3)
Yes	18,517	93.5 (90.3-95.8)	15,895	78.6 (73.6-82.9)	3,256	16 (11.9-21.1)
Disability status	10,017	30.0 (00.0 00.0)	.0,000	10.0 (10.0 02.0)	0,200	10 (11.0 21.1)
No	47,704	86.9 (84.3-89.1)	47,501	84.9 (82.1-87.3)	4,210	7.5 (5.9-9.4)
Yes	5,455	85.0 (73.2-92.2)	5,290	78.2 (68.7-85.5)	1,982	29.2 (19.9-40.7)
¹ n weighted to reflect birt						

		sion screening prenatal care		n screening during tpartum visit		orted postpartum sive symptoms ³
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	58,198	88.6 (86.2-90.6)	57,865	88.3 (86.0-90.2)	6,789	10.4 (8.4-12.7)
Race/ethnicity						· · · · · ·
White, non-Hispanic	34,598	87.8 (84.0-90.8)	35,712	91.3 (87.8-93.9)	3,351	8.6 (5.9-12.3)
Black, non-Hispanic	5,535	89.8 (85.6-92.8)	5,359	86.1 (81.3-89.8)	940	15.0 (11.2-19.7)
Hispanic	12,089	91.0 (87.3-93.7)	10,696	79.9 (75.4-83.8)	1,440	10.8 (7.9-14.5)
Asian, non-Hispanic	4,091	82.6 (77.0-87.1)	4,431	88.5 (83.7-92.1)	789	15.7 (11.6-20.8)
Other, non-Hispanic	339	100 ()	250	82.4 (49.7-95.7)	Insu	ifficient data ²
Age (years)						
<20	959	89.1 (73.5-96.0)	820	76.2 (58.3-88.0)	157	14.6 (6.1-31.0)
20-29	16,580	88.6 (84.3-91.9)	15,978	86.0 (81.3-89.6)	1,921	10.4 (7.3-14.5)
30-39	38,603	88.7 (85.5-91.2)	39,217	90.2 (87.4-92.4)	4,372	10.0 (7.6-13.1)
40+	2,056	86.7 (70.6-94.6)	1,850	76.4 (60.0-87.5)	338	14.5 (6.9-28)
Education		· · · ·		· · · · ·		· · · · ·
<high school<="" td=""><td>3,999</td><td>89.3 (78.9-94.9)</td><td>3,489</td><td>77.9 (69.9-84.2)</td><td>729</td><td>16.3 (10.0-25.3)</td></high>	3,999	89.3 (78.9-94.9)	3,489	77.9 (69.9-84.2)	729	16.3 (10.0-25.3)
High school diploma	8,800	91.8 (86.5-95.2)	7,991	84.4 (77.4-89.5)	1,561	16.4 (10.4-24.9)
Some college	11,805	92.3 (87.0-95.5)	10,952	84.7 (78.1-89.6)	1,672	12.9 (8.5-19.1)
College graduate	32,293	86.3 (82.7-89.2)	34,282	91.9 (89.0-94.1)	2,791	7.5 (5.4-10.3)
Insurance type		, <i>, , ,</i>				· · · · · ·
Private	34,111	87.0(83.5-89.8)	36,447	93.4 (90.8-95.3)	2,881	7.4 (5.3-10.1)
Medicaid	20,397	90.8 (87.1-93.5)	17,837	79.4 (74.6-83.5)	3,208	14.3 (10.7-18.8)
Other	1,734	91.0 (72.9-97.4)	1,707	87.9 (71.5-95.5)	454	23.4 (9.6-46.8)
Household poverty level						
≤100% FPL	10,206	90.0 (84.5-93.7)	9,303	80.8 (74.4-85.8)	2,188	19.0 (13.7-25.8)
>100% FPL	44,848	88.2 (85.3-90.5)	46,265	90.8 (88.2-92.8)	4,252	8.3 (6.4-10.8)
Nativity		, <i>, , ,</i>				· · · · · ·
Non-US-born	18,348	89.4 (86.2-91.9)	16,933	81.3 (77.0-84.9)	2,494	12.0 (9.3-15.3)
US-born	39,850	88.2 (85.0-90.9)	40,932	91.5 (88.8-93.6)	4,295	9.6 (7.2-12.7)
Marital status						
Unmarried	18,175	88.4 (83.5-91.9)	16,913	82.8 (77.8-86.9)	3,012	14.7 (10.6-20.1)
Married	40,023	88.7 (85.8-91.0)	40,952	90.7 (88.2-92.7)	3,777	8.4 (6.5-10.8)
WIC participation	-	· · · ·		, , ,		· · · · · ·
No	40,771	87.6 (84.5-90.1)	42,118	90.5 (87.8-92.7)	3,671	7.9 (5.9-10.4)
Yes	17,224	91.6 (87.7-94.4)	15,611	82.6 (78.1-86.3)	3,118	16.5 (12.4-21.8)
Disability status	·	· /		、	·	· · · · ·
No	50,293	87.9 (85.3-90.2)	51,455	89.6 (87.4-91.5)	4,094	7.1 (5.5-9.2)
Yes	7,068	93.5 (88.3-96.5)	6,067	79.2 (69.3-86.5)	2,634	34.4 (25.5-44.5)

Table 21. Prevalence of depression screening and self-reported postpartum depressive

	Lo	oan money³	I	Bed rest ⁴	Someo	one to talk with⁵		o when tired/ rustrated ⁶	G	Give ride ⁷
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	51,471	79.9 (77.5-82.1)	55,928	86.7 (84.6-88.5)	56,698	88.0 (86.1-89.7)	56,998	88.5 (86.6-90.2)	56,951	88.3 (86.3-90.0
Race/ethnicity										
White, non-Hispanic	34,168	87.5 (83.9-90.4)	35,849	91.8 (88.7-94.2)	36,195	92.7 (89.8-94.9)	36,200	93.0 (90.0-95.2)	35,830	91.8 (88.7-94.2
Black, non-Hispanic	4,043	65.9 (59.9-71.5)	5,038	81.6 (77.0-85.4)	5,127	83.8 (79.4-87.4)	5,162	84.2 (79.9-87.7)	5,216	84.9 (80.7-88.3
Hispanic	9,092	73.5 (68.8-77.6)	9,702	78.1 (73.7-81.9)	10,015	80.6 (76.3-84.3)	9,970	80.3 (76.0-84.0)	10,398	83.5 (79.5-86.9
Asian, non-Hispanic	3,133	56.8 (51.1-62.4)	4,130	74.7 (69.3-79.4)	4,139	75.2 (69.9-79.8)	4,506	80.5 (75.5-84.7)	4,285	77.1 (71.9-81.6
Other, non-Hispanic	399	69.1 (49.5-83.6)	500	89.3 (71.6-96.5)	474	84.8 (65.9-94.2)	449	80.3 (60.7-91.5)	474	84.8 (65.9-94.2
Age (years)										
<20	725	69.6 (47.2-85.4)	876	84.2 (64.7-93.9)	840	80.7 (60.9-91.8)	882	84.8 (65.4-94.2)	904	86.9 (69.3-95.1)
20-29	15,056	74.0 (69.2-78.3)	17,537	86.2 (82.7-89.1)	17,721	87.3 (83.7-90.2)	17,678	87.0 (83.4-90.0)	17,805	87.6 (84.0-90.5)
30-39	32,949	83.1 (80.2-85.7)	34,517	86.9 (84.1-89.3)	35,216	88.7 (86.2-90.9)	35,488	89.5 (87.0-91.6)	35,349	89.0 (86.4-91.1
40+	2,741	80.6 (70.3-87.9)	2,998	87.7 (78.1-93.4)	2,921	85.8 (75.9-92.1)	2,950	86.3 (76.1-92.5)	2,893	84.6 (72.6-91.9
Education										
<high school<="" td=""><td>2,552</td><td>56.6 (47.1-65.6)</td><td>3,338</td><td>73.6 (64.9-80.8)</td><td>3,361</td><td>75.0 (66.0-82.2)</td><td>3,502</td><td>77.2 (68.6-84.0)</td><td>3,577</td><td>79.8 (71.2-86.3</td></high>	2,552	56.6 (47.1-65.6)	3,338	73.6 (64.9-80.8)	3,361	75.0 (66.0-82.2)	3,502	77.2 (68.6-84.0)	3,577	79.8 (71.2-86.3
High school diploma	6,529	72.0 (65.0-78.8)	7,186	79.1 (72.5-84.4)	7,645	84.3 (79.0-88.4)	7,499	82.7 (76.5-87.5)	7,754	85.4 (79.9-89.6
Some college	11,677	75.6 (69.9-80.5)	12,919	83.6 (78.6-87.6)	13,274	86.1 (81.3-89.8)	13,180	85.7 (81.0-89.3)	13,251	85.7 (81.1-89.4)
College graduate	29,272	87.1 (84.0-89.6)	30,921	91.8 (89.3-93.8)	30,816	91.5 (88.9-93.5)	31,159	92.6 (90.1-94.5)	30,767	91.2 (88.4-93.4
Insurance type		x x x		· · · ·		, , , , , , , , , , , , , , , , , , , ,	·			
Private	34,282	87.8 (85.1-90.1)	36,155	92.6 (90.3-94.4)	36,181	92.6 (90.3-94.4)	36,496	93.6 (91.5-95.3)	36,288	92.8 (90.5-94.6)
Medicaid	15,167	69.0 (64.4-73.2)	17,293	78.4 (74.3-81.9)	17,821	81.1 (77.3-84.4)	17,961	81.4 (77.6-84.7)	18,062	82.0 (78.1-85.4)
Other	1,083	63.0 (44.0-78.7)	1,366	78.8 (61.5-89.6)	1,486	86.5 (74.2-93.4)	1,371	79.8 (62.5-90.4)	1,453	84.6 (66.9-93.7
Household poverty level			-			, , , , , , , , , , , , , , , , , , ,				
≤100% FPL	8,351	66.7 (60.6-72.4)	9,587	76.1 (70.5-80.9)	10,261	81.9 (77.0-86.0)	9,941	79.4 (74.0-84.0)	9,823	78.2 (72.6-83.0
>100% FPL	41,638	84.0 (81.4-86.4)	44,413	89.6 (87.4-91.5)	44,562	90.0 (87.7-91.8)	45,160	91.2 (89.1-92.9)	44,980	90.8 (88.6-92.5
Nativity		x b		\$ 4		, , , , , , , , , , , , , , , , , , ,	·			
Non-US-born	11,113	61.1 (56.8-65.3)	13,588	74.5 (70.6-78.0)	13,989	77.0 (73.2-80.4)	14,322	78.5 (74.8-81.8)	14,501	79.4 (75.6-82.7
US-born	40,333	87.3 (84.3-89.7)	42,315	91.5 (89.0-93.5)	42,684	92.3 (90.0-94.1)	42,652	92.4 (90.1-94.3)	42,426	91.8 (89.4-93.7
Marital status			-			, , , , , , , , , , , , , , , , , , ,				
Unmarried	15,727	77.7 (73.0-81.8)	16,798	82.8 (78.5-86.5)	17,560	86.5 (82.7-89.5)	17,258	85.2 (81.0-88.6)	17,337	85.3 (81.1-88.7
Married	35,743	80.9 (78.1-83.5)	39,131	88.5 (86.2-90.4)	39,138	88.7 (86.4-90.7)	39,740	90.0 (87.9-91.8)	39,614	89.7 (87.4-91.6
WIC participation	, í		,	· · · ·		, , , , , , , , , , , , , , , , , , ,			,	· · · ·
No	38,065	85.9 (83.1-88.2)	40,568	91.4 (89.1-93.3)	40,649	91.6 (89.3-93.4)	41,281	93.2 (91.1-94.8)	40,859	92.1 (89.8-93.8
Yes	13,084	66.4 (61.7-70.9)	15,020	76.1 (71.8-80.0)	15,727	80.0 (76.0-83.5)	15,395	78.2 (73.9-81.9)	15,741	79.8 (75.5-83.4
Disability status	,		,	, /	,		,		,	, -
No	46,756	80.8 (78.3-83.1)	50,948	88.0 (85.9-89.8)	51,541	89.2 (87.2-90.9)	51,658	89.4 (87.4-91.1)	51,726	89.3 (87.3-91.1
Yes	_,	71.7 (62.6-79.4)	4,937	75.3 (66.8-82.2)		77.6 (69.4-84.1)	5,296	80.8 (73.1-86.6)	5,182	79.3 (71.2-85.6

new baby; ⁷Give ride=having someone to give a ride to see a doctor.

	Lo	an money³	I	Bed rest⁴	Someo	ne to talk with⁵		when tired/ ustrated ⁶		Give ride ⁷
Characteristic	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	48,139	77.7 (74.9-80.3)	52,648	85.1 (82.8-87.2)	54,183	87.4 (85.1-89.3)	53,947	86.9 (84.6-88.8)	55,057	88.6 (86.5-90.4)
Race/ethnicity										
White, non-Hispanic	31,255	85.8 (81.4-89.4)	33,237	91.5 (87.8-94.2)	33,761	92.7 (89.1-95.2)	33,737	92.7 (89.1-95.1)	33,756	92.7 (89.3-95.1)
Black, non-Hispanic	3,812	64.1 (58.1-69.6)	4,595	77.4 (71.7-82.3)	4,692	79.2 (73.6-83.9)	4,802	80.9 (76.1-84.8)	4,928	83.0 (78.5-86.7)
Hispanic	8,807	69.8 (64.6-74.6)	9,244	73.2 (68.0-77.9)	9,903	78.0 (73.2-82.2)	9,480	74.6 (69.5-79.1)	10,482	82.0 (77.4-85.9)
Asian, non-Hispanic	3,268	57.1 (51.2-62.8)	4,407	77.0 (71.6-81.6)	4,686	81.4 (76.3-85.6)	4,866	84.0 (79.2-87.9)	4,707	81.5 (76.4-85.7)
Other, non-Hispanic	259	69.3 (43.7-86.8)	297	79.4 (52.3-93.2)	274	77.7 (49.3-92.6)	295	79.0 (51.5-93.0)	317	84.8 (55.7-96.1)
Age (years)										
<20	1,129	85.1 (69.7-93.4)	1,149	86.6 (69.2-94.9)	1,135	85.5 (69.6-93.9)	1,021	76.9 (55.1-90.0)	1,210	91.1 (77.2-96.9)
20-29	14,275	71.5 (65.7-76.6)	16,333	82.0 (77.3-85.8)	17,232	86.4 (82.3-89.6)	16,817	84.2 (79.6-87.9)	17,219	85.9 (81.4-89.5)
30-39	29,743	81.5 (78.1-84.4)	31,766	87.1 (84.0-89.7)	32,299	88.2 (85.1-90.7)	32,754	89.2 (86.5-91.5)	33,176	90.4 (87.8-92.5)
40+	2,992	72.6 (60.3-82.3)	3,400	82.5 (71.9-89.7)	3,517	85.7 (75.8-91.9)	3,355	82.0 (71.2-89.4)	3,452	84.4 (73.6-91.3)
Education										
<high school<="" td=""><td>2,700</td><td>63.9 (53.5-73.1)</td><td>3,053</td><td>70.0 (59.8-78.6)</td><td>3,155</td><td>73.9 (64.2-81.7)</td><td>2,941</td><td>67.5 (57.3-76.2)</td><td>3,201</td><td>73.1 (62.9-81.3)</td></high>	2,700	63.9 (53.5-73.1)	3,053	70.0 (59.8-78.6)	3,155	73.9 (64.2-81.7)	2,941	67.5 (57.3-76.2)	3,201	73.1 (62.9-81.3)
High school diploma	5,928	63.7 (54.3-72.1)	7,387	80.4 (72.8-86.2)	7,870	84.5 (77.6-89.6)	7,767	83.1 (75.9-88.5)	8,060	85.7 (78.6-90.7)
Some college	9,664	74.9 (68.0-80.7)	10,557	81.8 (75.4-86.9)	10,967	85.1 (78.8-89.8)	10,876	84.4 (77.9-89.2)	11,342	88.1 (82.5-92.0)
College graduate	29,021	84.4 (81.1-87.2)	30,801	89.9 (86.9-92.2)	31,284	90.9 (88.1-93.1)	31,550	91.7 (89.3-93.7)	31,591	91.8 (89.2-93.9)
Insurance type										
Private	31,706	85.4 (82.3-88.1)	34,407	93.0 (90.7-94.7)	34,697	93.5 (91.3-95.2)	34,280	92.3 (89.8-94.2)	34,497	93.0 (90.6-94.8)
Medicaid	14,718	67.7 (62.5-72.6)	16,044	73.7 (68.7-78.2)	17,172	78.7 (74.0-82.8)	17,153	78.5 (73.9-82.4)	18,003	81.9 (77.5-85.7)
Other	818	64.4 (43.2-81.2)	923	74.9 (53.3-88.7)	923	72.7 (51.4-87.1)	1,058	83.4 (60.9-94.2)	968	78.0 (56.0-90.8)
Household poverty level						· · · · · ·		, , , , , , , , , , , , , , , , , , ,		
≤100% FPL	6,270	55.1 (47.3-62.6)	7,996	70.6 (62.8-77.4)	8,552	74.6 (66.9-81.0)	8,402	73.2 (66.1-79.3)	8,918	77.8 (70.9-83.5)
>100% FPL	39,465	84.2 (81.5-86.6)	41,806	89.4 (87.1-91.3)	42,710	91.2 (89.2-92.9)	42,589	90.8 (88.5-92.7)	42,935	91.5 (89.3-93.3)
Nativity										
Non-US-born	12,366	58.7 (54.0-63.3)	15,488	73.6 (69.2-77.5)	16,340	77.6 (73.4-81.3)	16,864	79.6 (76.0-82.8)	17,415	82.3 (78.8-85.3)
US-born	35,773	87.5 (84.1-90.3)	37,159	91.1 (88.2-93.4)	37,844	92.4 (89.7-94.5)	37,083	90.6 (87.6-93.0)	37,641	91.9 (89.0-94.0)
Marital status						· · · · · ·		, , , , , , , , , , , , , , , , , , ,		
Unmarried	14,230	76.7 (71.2-81.4)	15,159	81.8 (76.8-85.9)	15,720	84.1 (79.3-88.0)	15,304	82.2 (77.2-86.3)	16,051	85.8 (81.1-89.6)
Married	33,909	78.2 (74.8-81.2)	37,489	86.6 (83.8-88.9)	38,464	88.8 (86.2-91.0)	38,643	88.9 (86.4-91.0)	39,006	89.8 (87.4-91.8)
WIC participation			-							, , ,
No	34,898	83.1 (80.0-85.8)	37,700	90.0 (87.6-92.0)	38,360	91.3 (89.0-93.1)	38,255	90.9 (88.4-92.9)	38,363	91.2 (88.8-93.2)
Yes	13,199	66.6 (60.9-71.8)	14,906	75.2 (69.7-79.9)	15,744	79.3 (74.1-83.6)	15,635	78.6 (73.8-82.8)	16,637	83.3 (78.7-87.0)
Disability status		· · · · · · · · · · · · · · · · · · ·		, , , ,		, , , , ,		, /		, , , , , , , , , , , , , , , , , , ,
No	43,405	78.6 (75.7-81.3)	47,785	86.8 (84.4-88.8)	48,874	88.5 (86.2-90.4)	48,725	88.2 (85.9-90.1)	49,639	89.8 (87.7-91.6)
Yes	4,676	70.2 (59.8-78.9)	4,806	71.8 (61.2-80.4)	5,251	78.4 (68.8-85.7)	5,165	76.4 (66.4-84.2)	5,327	78.8 (68.7-86.3)

baby; ⁷Give ride=having someone to give a ride to see a doctor

	Lo	an money³	E	Bed rest⁴	Someo	ne to talk with⁵		o when tired/ rustrated ⁶	G	Sive ride ⁷
Characteristic	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	52,786	81.9 (79.4-84.2)	56,188	87.1 (84.9-89.1)	57,542	89.2 (87.1-91.0)	57,148	88.9 (86.7-90.8)	58,085	90.0 (88-91.7)
Race/ethnicity						, , , , , , , , , , , , , , , , , , ,				· · · · · · · · · · · · · · · · · · ·
White, non-Hispanic	34,729	89.9 (86.1-92.8)	35,570	92.1 (88.6-94.6)	35,954	93.1 (89.7-95.5)	35,671	92.4 (88.9-94.8)	36,111	93.5 (90.2-95.7)
Black, non-Hispanic	4,375	72.9 (67.3-77.9)	4,772	79.8 (74.6-84.2)	5,093	85.5 (80.7-89.3)	5,010	84.0 (79.2-87.9)	5,002	83.9 (78.9-87.9)
Hispanic	9,124	70.0 (64.8-74.6)	10,156	77.7 (72.9-81.9)	10,822	82.6 (78.1-86.3)	10,579	81.9 (77.3-85.8)	11,318	86.0 (81.8-89.3)
Asian, non-Hispanic	2,961	59.8 (53.4-65.9)	3,948	79.2 (73.3-84.0)	3,930	78.8 (72.9-83.7)	4,146	83.4 (77.8-87.8)	3,877	78.3 (72.3-83.3)
Other, non-Hispanic	179	62.6 (32.7-85.2)	197	68.9 (36.8-89.4)	197	68.9 (36.8-89.4)	197	68.9 (36.8-89.4)	232	81.3 (47.6-95.4)
Age (years)										
<20	759	74.6 (55.9-87.2)	943	87.6 (70.9-95.3)	861	82.3 (65.2-92.0)	921	90.6 (74.4-97.0)	974	90.5 (74.2-96.9)
20-29	13,996	76.2 (71.1-80.6)	15,105	82.7 (78.2-86.4)	15,729	85.6 (81.2-89.2)	15,747	86.3 (82.0-89.7)	16,038	87.3 (83.5-90.4)
30-39	36,114	84.4 (81.3-87.1)	38,194	89.1 (86.3-91.5)	38,955	91.0 (88.4-93.1)	38,485	90.0 (87.2-92.3)	39,143	91.4 (88.8-93.5)
40+	1,917	84.1 (68.2-92.9)	1,946	85.4 (69.0-93.9)	1,996	87.5 (70.3-95.4)	1,996	87.5 (70.3-95.4)	1,930	84.6 (68.3-93.4)
Education										
<high school<="" td=""><td>2,340</td><td>54.5 (44.5-64.2)</td><td>3,001</td><td>70.2 (60.0-78.7)</td><td>3,156</td><td>74.1 (63.9-82.2)</td><td>3,222</td><td>75.7 (65.5-83.6)</td><td>3,438</td><td>79.7 (69.6-87.1)</td></high>	2,340	54.5 (44.5-64.2)	3,001	70.2 (60.0-78.7)	3,156	74.1 (63.9-82.2)	3,222	75.7 (65.5-83.6)	3,438	79.7 (69.6-87.1)
High school diploma	6,318	67.9 (59.1-75.6)	7,153	76.6 (68.4-83.1)	7,639	81.7 (73.9-87.6)	7,711	82.8 (75.5-88.3)	7,767	83.4 (76.1-88.9)
Some college	10,228	79.9 (73.3-85.3)	10,846	84.8 (78.7-89.5)	11,296	87.9 (82.0-92.1)	10,945	85.9 (79.7-90.5)	11,447	89.1 (83.8-92.8)
College graduate	32,786	89.2 (86.4-91.4)	34,042	92.6 (90.0-94.5)	34,305	93.3 (90.8-95.1)	34,154	93.0 (90.3-95.0)	34,227	93.1 (90.6-95.0)
Insurance type										
Private	34,819	89.6 (86.8-91.8)	36,273	93.3 (91.0-95.1)	36,381	93.6 (91.2-95.4)	36,177	93.2 (90.6-95.1)	36,570	94.1 (91.7-95.8)
Medicaid	15,150	69.9 (64.8-74.6)	16,887	77.9 (73.0-82.1)	18,012	82.9 (78.4-86.6)	17,737	82.2 (77.6-86.0)	18,475	84.9 (80.8-88.2)
Other	1,341	69.6 (48.6-84.7)	1,386	71.4 (50.3-86.0)	1,456	75.0 (53.2-88.8)	1,491	78.0 (55.1-91.1)	1,368	71.6 (50.2-86.3)
Household poverty level										
≤100% FPL	7,336	65.5 (58.2-72.1)	8,234	74.0 (66.8-80.0)	8,869	79.3 (73.0-84.5)	8,866	79.6 (73.0-84.9)	9,375	83.4 (78.1-87.7)
>100% FPL	44,303	87.8 (85.3-89.9)	46,439	92.0 (89.8-93.7)	46,903	92.9 (90.7-94.6)	46,616	92.6 (90.4-94.3)	46,757	92.7 (90.5-94.4)
Nativity										
Non-US-born	12,524	61.6 (56.8-66.2)	15,580	76.1 (71.8-79.9)	16,415	80.4 (76.4-83.8)	16,176	79.6 (75.4-83.2)	16,228	79.4 (75.1-83.1)
US-born	40,262	91.3 (88.5-93.5)	40,608	92.3 (89.5-94.4)	41,127	93.3 (90.6-95.3)	40,972	93.2 (90.4-95.2)	41,858	94.9 (92.5-96.6)
Marital status										
Unmarried	14,867	75.6 (70.2-80.4)	15,988	81.3 (76.2-85.5)	16,317	83.0 (77.9-87.1)	16,625	84.8 (79.9-88.7)	17,317	87.8 (83.4-91.2)
Married	37,919	84.7 (81.9-87.1)	40,201	89.7 (87.2-91.7)	41,225	92.0 (89.7-93.8)	40,523	90.7 (88.2-92.7)	40,768	910 (88.6-92.9)
WIC participation										
No	40,159	87.3 (84.4-89.7)	41,797	90.7 (88.1-92.8)	42,314	91.9 (89.4-93.9)	41,933	91.2 (88.5-93.3)	42,618	92.5 (90.1-94.3)
Yes	12,557	68.5 (63.2-73.4)	14,290	78.2 (73.4-82.3)	15,127	82.6 (78.0-86.3)	15,145	83.2 (78.8-86.9)	15,366	83.8 (79.3-87.5)
Disability status										
No	47,407	83.4 (80.8-85.6)	50,385	88.6 (86.3-90.5)	51,587	90.7 (88.5-92.4)	51,056	90.0 (87.7-91.9)	51,861	91.0 (88.9-92.7)
Yes	5,265	72.2 (62.4-80.2)	5,689	77.8 (69.0-84.6)	5,817	79.5 (70.2-86.5)	5,954	81.8 (73.5-87.9) ed Rest=having someo	6,086	83.6 (74.9-89.7)

Table 25. Prevalence of emotional support from respondent's partner and financial support from infant's father after delivery by sociodemographic characteristics, MA PRAMS, 2019–2021

		20	-			20)20			20)21	
	Emot	ional support ³	Finar	ncial support ⁴	Emo	tional support ³	Fina	ncial support ⁴	Emo	tional support ³	Fina	ncial support ⁴
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	54,072	82.4 (79.9-84.7)	57,917	89.5 (87.6-91.1)	53,177	84.3 (81.8-86.6)	56,548	90.6 (88.4-92.4)	56,013	85.6 (83.1-87.8)	58,480	91.0 (88.9-92.7)
Race/ethnicity												
White, non-Hispanic	33,594	85.2 (81.3-88.4)	36,315	93.1 (90.1-95.2)	32,487	88.6 (84.5-91.7)	34,291	94.2 (90.5-96.6)	34,880	89.3 (85.3-92.3)	35,801	93.6 (90.0-95.9)
Black, non-Hispanic	4,743	74.5 (69.1-79.3)	4,873	78.4 (73.7-82.6)	4,349	70.5 (64.7-75.7)	4,951	81.8 (77.1-85.6)	4,352	70.0 (64.2-75.2)	4,629	76.6 (71.0-81.4
Hispanic	9,450	74.4 (69.9-78.5)	10,230	82.2 (78.1-85.7)	9,826	75.6 (70.7-79.9)	10,775	83.7 (79.3-87.4)	10,768	81.4 (76.9-85.1)	11,499	87.4 (83.6-90.4)
Asian, non-Hispanic	5,267	92.5 (88.8-95.0)	5,302	94.3 (90.7-96.6)	5,438	91.4 (87.4-94.2)	5,588	95.3 (91.9-97.4)	4,432	88.2 (83.1-92.0)	4,718	94.6 (90.4-97.1
Other, non-Hispanic	567	90.5 (74.3-96.9)	559	89.2 (71.6-96.4)	339	90.6 (57.0-98.6)	305	81.6 (50.9-95.0)	250	82.4 (49.7-95.7)	286	100 ()
Age (years)												
<20	936	89.9 (74.1-96.5)	757	72.8 (53.6-86.1)	1,037	78.2 (56.1-90.9)	902	68.0 (46.3-83.9)	614	57.0 (36.9-75.1)	589	56.3 (36.0-74.7)
20-29	16,712	80.0 (75.8-83.7)	17,591	85.9 (82.2-88.9)	16,681	81.1 (76.3-85.1)	17,141	85.2 (79.9-89.3)	15,065	81.4 (76.2-85.8)	16,358	89.0 (84.7-92.2)
30-39	33,661	83.7 (80.4-86.6)	36,782	92.3 (90.0-94.2)	31,908	86.2 (82.8-89.1)	34,696	94.2 (91.9-95.9)	38,515	88.8 (85.8-91.2)	39,409	92.7 (90.0-94.7)
40+	2,763	79.3 (65.8-88.4)	2,787	82.9 (69.2-91.3)	3,551	85.6 (75.9-91.8)	3,809	92.1 (84.0-96.3)	1,819	74.6 (58.5-86.0)	2,123	91.7 (77.5-97.2)
Education								· · ·				
<high school<="" td=""><td>3,872</td><td>81.1 (73.1-87.1)</td><td>3,821</td><td>83.1 (76.2-88.3)</td><td>3,425</td><td>73.5 (63.8-81.3)</td><td>3,277</td><td>74.0 (64.3-81.7)</td><td>3,519</td><td>78.5 (70.5-84.8)</td><td>3,498</td><td>79.9 (72.0-86.0)</td></high>	3,872	81.1 (73.1-87.1)	3,821	83.1 (76.2-88.3)	3,425	73.5 (63.8-81.3)	3,277	74.0 (64.3-81.7)	3,519	78.5 (70.5-84.8)	3,498	79.9 (72.0-86.0)
High school diploma	6,629	69.6 (62.1-76.2)	7,290	79.4 (72.8-84.8)	7,108	74.4 (65.8-81.4)	7,380	78.2 (68.7-85.5)	7,616	80.4 (72.8-86.3)	7,911	85.0 (77.4-90.3)
Some college	12,082	77.1 (71.7-81.7)	13,016	84.5 (79.8-88.2)	10,698	82.0 (75.7-86.9)	11,367	87.8 (81.6-92.1)	10,228	79.2 (71.8-85.1)	10,993	85.6 (78.9-90.5
College graduate	30,130	89.1 (85.6-91.8)	32,260	95.6 (93.3-97.2)	30,935	89.4 (86.2-92.0)	33,564	97.4 (96.0-98.4)	33,498	90.1 (86.9-92.5)	34,831	95.7 (93.2-97.3)
Insurance type		· · ·		· · ·				· · ·		· ·		
Private	35,085	89.0 (85.9-91.5)	37,547	96.1 (94.2-97.4)	33,481	89.6 (86.5-92.0)	36,225	97.3 (95.7-98.3)	35,672	91.3 (88.4-93.5)	36,966	95.9 (93.6-97.4)
Medicaid	16,262	71.4 (66.9-75.6)	17,301	77.9 (73.6-81.6)	17,401	77.5 (72.8-81.6)	17,807	80.6 (75.6-84.9)	16,978	76.3 (71.2-80.8)	18,171	83.3 (78.8-87.0
Other	1,521	86.4 (69.5-94.7)	1,718	97.7 (90.9-99.4)	885	68.9 (41.5-87.4)	910	71.7 (42.6-89.6)	1,646	84.8 (64.6-94.4)	1,709	88.0 (63.0-96.9
Household poverty level												
≤100% FPL	8,867	67.9 (61.8-73.5)	9,205	72.1 (66.1-77.4)	8,605	73.1 (65.9-79.3)	9,097	78.2 (71.3-83.8)	8,211	70.9 (64.0-76.9)	8,795	77.9 (71.5-83.2)
>100% FPL	43,291	86.4 (83.6-88.8)	46,624	94.1 (92.3-95.5)	41,781	88.0 (85.3-90.2)	44,474	94.6 (92.3-96.2)	45,503	89.3 (86.5-91.6)	47,247	94.2 (91.8-95.9
Nativity												
Non-US-born	16,005	85.4 (82.3-88.0)	16,367	88.8 (86.0-91.1)	18,085	83.6 (79.8-86.7)	19,238	89.9 (86.6-92.4)	17,347	84.5 (81.1-87.3)	17,997	88.6 (85.4-91.2)
US-born	38,067	81.3 (78.0-84.2)	41,550	89.8 (87.3-91.9)	35,092	84.8 (81.3-87.7)	37,310	91.0 (87.9-93.4)	38,665	86.2 (82.7-89.0)	40,483	92.1 (89.2-94.2)
Marital status										· · ·		
Unmarried	14,036	67.2 (62.1-71.9)	15,073	74.2 (69.4-78.5)	14,376	75.3 (69.9-80.0)	14,336	76.5 (70.6-81.5)	14,428	71.9 (65.9-77.3)	15,111	77.9 (72.2-82.7)
Married	40,035	89.5 (86.8-91.7)	42,844	96.5 (95.1-97.5)	38,801	88.3 (85.3-90.7)	42,212	96.7 (95.0-97.8)	41,584	91.7 (89.4-93.6)	43,369	96.6 (94.9-97.8)
WIC participation		. , ,										
No	39.223	87.3 (84.3-89.8)	42,029	94.6 (92.5-96.1)	37,734	88.5 (85.5-90.9)	40,298	95.6 (93.4-97.0)	41,539	89.3 (86.5-91.6)	43,143	94.4 (92.0-96.1
Yes	14,658	72.2 (67.6-76.4)	15,532	78.0 (73.8-81.8)	15,382	75.8 (70.7-80.3)	16,141	80.2 (75.0-84.6)	14,403	76.8 (71.4-81.4)	15,231	82.6 (77.7-86.6)
Disability status	,				,			, , , , , , , , , , , , , , , , , , , ,	,		,=•.	
No	49,491	84.3 (81.7-86.6)	52,860	90.9 (89.0-92.5)	48,559	86.4 (83.8-88.7)	51,080	91.9 (89.6-93.7)	50,728	88.3 (85.8-90.4)	52,143	92.1 (90.0-93.9
Yes	4.563	66.8 (57.6-74.9)	5.013	77.2 (68.6-84.0)	4.561	67.4 (57.1-76.3)	5.411	80.2 (70.7-87.1)	5.091	66.7 (56.7-75.5)	6.155	83.2 (74.6-89.4)
¹ n weighted to reflect bird support=father of baby c				t (0 <n<5); <sup="">3Emotiona</n<5);>		birthing person rece	eived enco	uragement and emo	tional supp	oort from their partne	r always/o	ften; ⁴ Financial

Table 26. Prevalence of categories of stressors in the 12 months before delivery, by sociodemographic characteristics, MA PRAMS, 2019

	An	y stressors ³	Emoti	onal stressors ⁴	Finan	cial stressors⁵	Partn	er Stressors ⁶	Trauma	tic Stressors ⁷
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	41,125	62.7 (59.6-65.7)	17,877	27.2 (24.5-30.1)	26,340	40.2 (37.2-43.3)	13,240	20.2 (17.8-22.8)	8,062	12.3 (10.4-14.6)
Race/ethnicity				· · · · ·						
White, non-Hispanic	24,133	61.2 (56.4-65.7)	10,973	27.8 (23.7-32.2)	14,653	37.1 (32.6-41.9)	6,679	17.0 (13.6-20.9)	4,956	12.6 (9.8-16.1)
Black, non-Hispanic	4,321	68.1 (62.5-73.2)	1,644	25.7 (21.1-31.0)	3,031	48.1 (42.4-53.8)	2,083	32.8 (27.4-38.8)	747	11.9 (8.3-16.8)
Hispanic	9,028	71.2 (66.6-75.4)	3,877	30.4 (26.0-35.1)	6,242	49.6 (44.7-54.5)	3,536	27.8 (23.6-32.4)	1,988	15.8 (12.5-19.9)
Asian, non-Hispanic	2,589	45.4 (39.9-50.9)	944	16.5 (12.8-21.0)	1,678	29.2 (24.4-34.5)	582	10.2 (7.3-14.1)	Insuf	ficient data ²
Other, non-Hispanic	416	66.3 (47.4-81.1)	178	28.4 (15.0-47.2)	323	51.5 (33.7-68.8)	136	21.6 (10.1-40.2)	Insuf	ficient data ²
Age (years)		`		· · · · ·						
<20	678	65.1 (45.6-80.7)	277	26.6 (12.1-48.8)	604	60.6 (40.8-77.5)	406	39.0 (21.5-59.9)	250	24.0 (10.0-47.4)
20-29	14,622	68.5 (63.6-73.0)	6,700	32.1 (27.4-37.2)	10,714	51.4 (46.2-56.5)	5,210	25.0 (21.0-29.5)	3,983	19.2 (15.2-23.9)
30-39	22,630	55.5 (51.4-59.6)	10,142	25.1 (21.7-28.9)	13,834	34.5 (30.7-38.5)	6,753	16.8 (13.9-20.1)	3,711	9.3 (7.1-12.0)
40+	2,164	61.1 (48.0-72.9)	758	21.5 (11.9-35.8)	1,187	33.9 (22.2-47.9)	871	24.9 (14.5-39.5)	Insuf	ficient data ²
Education										
<high school<="" td=""><td>3,037</td><td>59.6 (50.6-68.0)</td><td>1,445</td><td>29.5 (21.7-38.9)</td><td>2,287</td><td>48.1 (38.9-57.4)</td><td>1,087</td><td>22.4 (15.6-31.0)</td><td>1,052</td><td>21.8 (14.1-32.0)</td></high>	3,037	59.6 (50.6-68.0)	1,445	29.5 (21.7-38.9)	2,287	48.1 (38.9-57.4)	1,087	22.4 (15.6-31.0)	1,052	21.8 (14.1-32.0)
High school diploma	6,595	67.6 (60.8-73.7)	2,611	27.7 (21.3-35.1)	4,934	52.5 (45.0-59.8)	2,558	26.8 (20.9-33.8)	1,820	19.3 (13.5-26.8)
Some college	10,918	68.8 (62.7-74.3)	4,993	31.6 (26.0-37.8)	7,322	46.8 (40.7-53.1)	4,447	28.6 (23.4-34.5)	2,801	18.0 (13.6-23.4)
College graduate	18,185	53.2 (48.6-57.8)	8,494	25.1 (21.3-29.3)	10,821	31.9 (27.8-36.4)	4,533	13.4 (10.5-16.9)	1,889	5.6 (3.8-8.1)
Insurance type										
Private	22,634	57.6 (53.2-61.8)	10,281	26.1 (22.4-30.0)	13,443	34.2 (30.2-38.4)	5,997	15.2 (12.3-18.6)	2,708	6.9 (5.0-9.4)
Medicaid	16,517	72.3 (68.1-76.2)	6,739	29.4 (25.2-34.0)	13,148	57.9 (53.3-62.4)	6,388	28.2 (24.2-32.5)	4,826	21.3 (17.3-25.9)
Other	893	50.0 (33.0-67.0)	407	22.8 (11.9-39.2)	811	45.4 (29.1-62.8)	293	16.4 (7.7-31.8)	Insuf	ficient data ²
Household poverty level										
≤100% FPL	9,628	73.0 (67.6-77.8)	4,102	31.5 (26.0-37.5)	7,328	56.7 (50.7-62.6)	4,044	31.4 (26.0-37.3)	3,419	26.4 (20.9-32.9)
>100% FPL	28,993	57.5 (53.7-61.1)	13,167	26.2 (23.1-29.7)	17,798	35.6 (32.1-39.2)	8,700	17.4 (14.7-20.4)	4,247	8.5 (6.7-10.8)
Nativity						, ,				
Non-US-born	10,514	54.2 (49.9-58.4)	3,994	21.1 (17.9-24.7)	7,680	41.1 (36.9-45.5)	3,283	17.4 (14.6-20.7)	1,060	5.7 (4.0-8.0)
US-born	29,555	62.5 (58.5-66.4)	13,883	29.6 (26.1-33.4)	18,635	39.8 (36.0-43.8)	9,958	21.3 (18.3-24.7)	7,002	15 (12.4-18.1)
Marital status		· · ·		, , , , ,		· · · · ·		· · · · ·		· · · · ·
Unmarried	15,392	72.3 (67.5-76.6)	6,287	29.9 (25.4-34.9)	11,111	53.1 (47.9-58.3)	6,287	29.9 (25.5-34.7)	4,746	22.7 (18.4-27.6)
Married	24,701	54.4 (50.5-58.3)	11,590	25.9 (22.6-29.5)	15,229	34.2 (30.6-37.9)	6,954	15.6 (12.9-18.7)	3,316	7.5 (5.6-9.9)
Disability status		· · · /		, , , , , , , , , , , , , , , , , , ,		,	·	· · /	·	, <i>, , , , , , , , , , , , , , , , , , </i>
No	34,594	58.6 (55.3-61.8)	14,761	25.2 (22.4-28.2)	22,666	38.8 (35.6-42.1)	11,071	18.9 (16.5-21.6)	6,603	11.3 (9.3-13.7)
Yes	5,242	76.7 (67.9-83.7)	2,892	42.5 (33.5-52.0)	3,573	52.9 (43.6-62.1)	1,958	29.3 (22.0-37.8)	1,433	21.5 (14.8-30.0)

'n weighted to reflect birthing population; 'Insufficient data to report (0<n<5); 'Any of 14 stressful life events during the 12 months prior to birth of new infant; "Emotional stressors: A close family member was very sick and had to go into the hospital; I was apart from my husband or partner due to military deployment or extended work-related travel; Someone very close to me died; ⁵Financial stressors: I moved to a new address; My husband or partner lost his job; I lost my job even though I wanted to go on working; My husband, partner, or I had a cut in work hours or pay; I had problems paying the rent, mortgage, or other bills; ⁶ Partner stressors: I got separated or divorced from my husband or partner; I argued with my husband or partner more than usual; My husband or partner said he didn't want me to be pregnant; ⁷Traumatic stressors: I was homeless or had to sleep outside in a car, or in a shelter; My husband, partner or I went to jail; . Someone very close to me had a problem with drinking or drugs. Table 27. Prevalence of categories of stressors in the 12 months before delivery, by sociodemographic characteristics, MA PRAMS, 2020

	An	y stressors ³	Emoti	onal stressors ⁴	Finan	cial stressors⁵	Partr	ner Stressors ⁶	Traum	natic Stressors ⁷
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% CI)
Total	40,626	64.2 (60.8-67.4)	18,337	29 (25.8-32.3)	25,897	41.0 (37.6-44.4)	11,243	17.8 (15.3-20.6)	6,334	10.0 (8.0-12.5)
Race/ethnicity										
White, non-Hispanic	23,202	63.4 (58.0-68.4)	11,422	31.2 (26.3-36.5)	13,389	36.7 (31.6-42.1)	5,575	15.2 (11.6-19.8)	4,184	11.4 (8.3-15.6
Black, non-Hispanic	4,332	70.6 (65.4-75.3)	1,954	31.4 (26.2-37.2)	2,839	46.1 (40.5-51.9)	1,612	26.1 (21.0-31.8)	625	10.1 (7.2-14.0
Hispanic	8,753	65.9 (60.7-70.7)	3,413	25.7 (21.4-30.5)	6,560	49.3 (44.0-54.6)	3,168	24.1 (19.7-29.0)	1,260	9.5 (6.8-13.1)
Asian, non-Hispanic	3,295	55.0 (49.2-60.6)	912	15.3 (11.6-19.8)	2,394	40.1 (34.6-45.8)	793	13.3 (9.8-17.7)	131	2.2 (1.0-4.9)
Other, non-Hispanic	281	68.9 (43.5-86.5)	205	52.4 (29.0-74.8)	154	37.9 (18.6-61.8)	Inst	ufficient data ²	Inst	ufficient data ²
Age (years)										
<20	1,004	69.3 (48.8-84.3)	336	24.5 (10.2-48.1)	827	59.6 (38.3-77.7)	376	27.1 (12.9-48.2)	376	28 (11.9-53.0)
20-29	14,011	66.9 (61.0-72.3)	6,237	30.1 (24.6-36.2)	10,634	51.3 (45.2-57.4)	4,672	22.6 (17.8-28.2)	2,751	13.3 (9.3-18.6
30-39	21,448	57.1 (52.6-61.5)	10,426	28.1 (24.2-32.5)	13,473	36.5 (32.2-40.9)	5,498	14.9 (11.9-18.4)	2,842	7.7 (5.5-10.7
40+	2,050	49.2 (36.8-61.7)	1,339	32.4 (21.7-45.3)	963	23.2 (15.1-33.9)	698	16.7 (9.3-28.4)	365	8.8 (3.5-20.5)
Education										
<high school<="" td=""><td>3,313</td><td>66.8 (57.4-75.1)</td><td>1,161</td><td>24.8 (16.9-34.8)</td><td>2,775</td><td>58.3 (48.2-67.8)</td><td>1,286</td><td>27.5 (18.6-38.7)</td><td>740</td><td>15.6 (8.3-27.2)</td></high>	3,313	66.8 (57.4-75.1)	1,161	24.8 (16.9-34.8)	2,775	58.3 (48.2-67.8)	1,286	27.5 (18.6-38.7)	740	15.6 (8.3-27.2)
High school diploma	6,547	66.0 (57.4-73.6)	3,518	36.0 (27.4-45.5)	4,862	49.7 (40.9-58.6)	2,522	25.9 (18.4-35.0)	2,122	21.8 (14.7-31.1
Some college	8,296	63.0 (55.4-70.1)	3,892	29.8 (23.2-37.3)	5,975	46.2 (38.5-54.0)	3,147	24.1 (18.1-31.4)	1,634	12.5 (7.9-19.2)
College graduate	19,340	55.6 (50.9-60.2)	9,226	26.7 (22.7-31.2)	11,638	33.8 (29.5-38.3)	4,154	12.0 (9.4-15.2)	1,622	4.7 (3.1-7.2)
Insurance type										•
Private	21,778	58.5 (53.9-63.0)	10,490	28.2 (24.1-32.6)	14,279	38.3 (34.0-42.9)	4,012	10.8 (8.3-13.8)	2,023	5.4 (3.7-8.0
Medicaid	16,442	72.1 (67.2-76.5)	6,978	30.7 (25.6-36.2)	13,724	60.5 (55.1-65.6)	6,510	28.7 (23.8-34.1)	4,084	18.0 (13.6-23.3)
Other	965	76.1 (55.2-89.1)	453	35.3 (15.4-61.9)	606	47.8 (26.9-69.5)	321	25.0 (8.1-55.8)	Inst	ufficient data ²
Household poverty level										
≤100% FPL	8,712	73.7 (67.4-79.1)	3,499	29.9 (23.3-37.5)	7,091	60.3 (52.8-67.3)	2,969	25.4 (19.6-32.2)	2,040	17.4 (12.1-24.5)
>100% FPL	27,294	57.4 (53.3-61.4)	13,505	28.6 (25.0-32.5)	16,763	35.5 (31.8-39.5)	7,238	15.3 (12.6-18.5)	3,683	7.8 (5.7-10.6)
Nativity		\$ 7		· · · · ·		, <i>, ,</i>		\$ *		•
Non-US-born	13,149	59.3 (54.9-63.6)	5,181	24.0 (20.1-28.2)	9,807	45.3 (40.7-49.9)	3,470	16.1 (13.1-19.5)	1,193	5.5 (3.7-8.3
US-born	25,364	60.4 (55.8-64.9)	13,156	31.6 (27.3-36.1)	16,090	38.7 (34.3-43.3)	7,773	18.7 (15.3-22.6)	5,141	12.4 (9.5-15.9
Marital status										
Unmarried	14,378	72.8 (67.0-77.9)	6,653	34.1 (28.3-40.4)	10,863	55.9 (49.5-62.0)	5,890	30.3 (24.9-36.4)	3,977	20.5 (15.4-26.7)
Married	24,135	54.4 (50.3-58.5)	11,684	26.7 (23.1-30.6)	15,034	34.3 (30.5-38.4)	5,353	12.2 (9.7-15.2)	2,357	5.4 (3.8-7.6)
Disability status		· · · · · ·		· · · · · ·		· · · · ·		, , ,		•
No	32,600	58.0 (54.3-61.5)	14,853	26.6 (23.4-30.0)	21,657	38.8 (35.3-42.4)	8,020	14.4 (12.0-17.1)	4,880	8.7 (6.7-11.3)
Yes	5,535	81.6 (71.9-88.4)	3,370	50.0 (39.2-60.8)	3,907	58.1 (46.9-68.5)	3,107	46.5 (35.8-57.6)	1,290	19.3 (11.5-30.4)

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Any of 14 stressful life events during the 12 months prior to birth of new infant; ⁴Emotional stressors: A close family member was very sick and had to go into the hospital; I was apart from my husband or partner due to military deployment or extended work-related travel; Someone very close to me died; ⁵Financial stressors: I moved to a new address; My husband or partner lost his job; I lost my job even though I wanted to go on working; My husband, partner, or I had a cut in work hours or pay; I had problems paying the rent, mortgage, or other bills; ⁶ Partner stressors: I got separated or divorced from my husband or partner; I argued with my husband or partner more than usual; My husband or partner said he didn't want me to be pregnant ; ⁷Traumatic stressors: I was homeless or had to sleep outside in a car, or in a shelter; My husband, partner or I went to jail; . Someone very close to me had a problem with drinking or drugs.

Table 28. Prevalence of categories of stressors in the 12 months before delivery, by sociodemographic characteristics, MA PRAMS. 2021

	An	y stressors ³	Emoti	onal stressors ⁴	Finar	ncial stressors⁵	Partr	ner Stressors ⁶	Traur	matic Stressors ⁷
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% CI)
Total	42,341	64.1 (60.7-67.4)	19,410	29.4 (26.4-32.7)	31,022	47.1 (43.6-50.5)	10,961	16.6 (14.2-19.4)	8,599	13 (10.7-15.8)
Race/ethnicity										
White, non-Hispanic	24,507	62.4 (57.1-67.3)	11,694	29.8 (25.2-34.8)	17,286	44.0 (38.8-49.3)	5,785	14.7 (11.2-19.1)	5,656	14.4 (10.9-18.8)
Black, non-Hispanic	4,673	74.0 (68.1-79.2)	2,427	38.6 (32.9-44.6)	3,603	57.2 (51.1-63.0)	1,659	26.1 (21.2-31.7)	875	13.7 (10.1-18.5)
Hispanic	9,586	70.7 (65.7-75.3)	4,120	30.5 (25.8-35.5)	7,476	55.6 (50.3-60.8)	2,599	19.3 (15.5-23.7)	1,653	12.3 (9.2-16.3)
Asian, non-Hispanic	2,762	55.0 (48.6-61.2)	879	17.5 (13.2-22.9)	2,099	41.8 (35.7-48.2)	537	10.7 (7.3-15.5)	179	3.6 (1.8-7.1)
Other, non-Hispanic	179	58.9 (31.1-82.0)	Ins	ufficient data ²	161	53.0 (26.7-77.7)	Insเ	ufficient data ²	0	0 ()
Age (years)										
<20	861	82.3 (65.2-92.0)	429	39.9 (22.0-60.9)	730	69.8 (51.0-83.6)	350	32.5 (15.8-55.4)	267	25.5 (9.9-51.5)
20-29	12,982	69.1 (63.2-74.5)	5,990	31.9 (26.3-38.1)	10,495	56.0 (49.7-62.0)	3,659	19.5 (14.9-25.1)	3,739	20 (14.9-26.2)
30-39	26,762	61.1 (56.8-65.4)	12,033	27.5 (23.8-31.6)	18,741	42.9 (38.6-47.3)	6,198	14.2 (11.4-17.5)	4,350	9.9 (7.4-13.2)
40+	1,736	71.2 (52.5-84.7)	958	39.3 (24.7-56.1)	1,056	43.3 (28.0-60.1)	753	30.9 (17.6-48.4)	244	10 (3.8-23.7)
Education										
<high school<="" td=""><td>3,010</td><td>66.4 (56.6-74.9)</td><td>1,079</td><td>24.3 (16.9-33.7)</td><td>2,494</td><td>55.4 (45.6-64.9)</td><td>780</td><td>17.4 (11.9-24.9)</td><td>543</td><td>12.2 (6.7-21.3)</td></high>	3,010	66.4 (56.6-74.9)	1,079	24.3 (16.9-33.7)	2,494	55.4 (45.6-64.9)	780	17.4 (11.9-24.9)	543	12.2 (6.7-21.3)
High school diploma	6,766	69.8 (60.9-77.4)	3,141	32.3 (24.5-41.2)	5,634	58.5 (49.4-67.1)	1,576	16.3 (11.0-23.4)	1,922	19.9 (13.2-29)
Some college	9,587	73.7 (65.8-80.3)	4,464	34.4 (27.2-42.3)	7,424	57.2 (49.1-65.0)	3,295	25.3 (18.8-33.1)	3,126	24 (17.2-32.4)
College graduate	22,522	60.1 (55.5-64.6)	10,625	28.4 (24.4-32.8)	15,086	40.3 (35.8-44.9)	5,208	13.9 (10.9-17.6)	2,972	7.9 (5.7-11.0)
Insurance type										
Private	23,920	60.8 (56.2-65.3)	11,402	29.0 (25.0-33.4)	15,671	39.9 (35.5-44.5)	4,859	12.4 (9.6-15.8)	3,194	8.1 (5.8-11.3)
Medicaid	15,855	70.0 (64.7-74.9)	6,802	30.0 (25.2-35.3)	13,039	57.8 (52.2-63.2)	5,042	22.3 (17.9-27.4)	4,516	20.0 (15.4-25.5)
Other	1,340	69.0 (46.6-85.0)	586	30.7 (15.6-51.6)	1,239	63.8 (42.6-80.8)	609	31.3 (15.7-52.8)	376	19.3 (7.7-40.9)
Household poverty level										
≤100% FPL	8,342	71.7 (64.4-78.1)	3,688	31.7 (25.3-39.0)	6,968	59.9 (52.4-67.0)	2,687	23.2 (17.5-30.0)	2,700	23.4 (16.9-31.3)
>100% FPL	32,279	63.0 (59.0-66.9)	14,940	29.2 (25.7-33.0)	22,699	44.4 (40.4-48.4)	7,827	15.3 (12.6-18.5)	5,480	10.7 (8.3-13.8)
Nativity	02,210		11,010	20.2 (20.1 00.0)	22,000		1,021	10.0 (12.0 10.0)	0,100	
Non-US-born	12,837	61.4 (56.5-66.0)	5,022	24.1 (20.3-28.3)	10,281	49.3 (44.5-54.0)	3,229	15.4 (12.5-18.9)	1,482	7.1 (4.9-10.1)
US-born	29,505	65.4 (60.9-69.6)	14,388	31.9 (27.8-36.2)	20,741	46.0 (41.5-50.6)	7,732	17.1 (13.9-20.9)	7,118	15.8 (12.6-19.6)
Marital status	,		,		,	(110 000)	.,		.,	
Unmarried	14,608	70.8 (64.6-76.2)	6,122	29.7 (24.2-35.9)	11,630	56.3 (49.8-62.6)	5,442	26.3 (21.0-32.5)	5,221	25.3 (19.7-31.8)
Married	27,733	61.1 (57.0-65.1)	13,288	29.3 (25.7-33.1)	19,392	42.8 (38.9-46.9)	5,519	12.2 (9.8-15.0)	3,378	7.5 (5.5-10.0)
Disability status	,		-,		- ,		- ,		- ,	
No	35,222	61.0 (57.3-64.7)	15,909	27.6 (24.4-31.1)	25,212	43.8 (40.1-47.5)	8,043	13.9 (11.5-16.7)	6,100	10.6 (8.3-13.4)
Yes	6,631	86.5 (78.7-91.8)	3,254	42.5 (33.2-52.3)	5,548	72.4 (63.4-79.9)	2,631	34.5 (25.6-44.7)	2,344	30.6 (21.7-41.2)
¹ n weighted to reflect birthin	ng populatio	on; ² Insufficient data t	o report (0<	<n<5); <sup="">3Any of 14 stres</n<5);>	sful life eve	nts during the 12 month	ns prior to b	irth of new infant; ⁴ Én	notional st	ressors: À close

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Any of 14 stressful life events during the 12 months prior to birth of new infant; ⁴Emotional stressors: A close family member was very sick and had to go into the hospital; I was apart from my husband or partner due to military deployment or extended work-related travel; Someone very close to me died; ⁵Financial stressors: I moved to a new address; My husband or partner lost his job; I lost my job even though I wanted to go on working; My husband, partner, or I had a cut in work hours or pay; I had problems paying the rent, mortgage, or other bills; ⁶ Partner stressors: I got separated or divorced from my husband or partner; I argued with my husband or partner more than usual; My husband or partner said he didn't want me to be pregnant; ⁷Traumatic stressors: I was homeless or had to sleep outside in a car, or in a shelter; My husband, partner or I went to jail; . Someone very close to me had a problem with drinking or drugs.

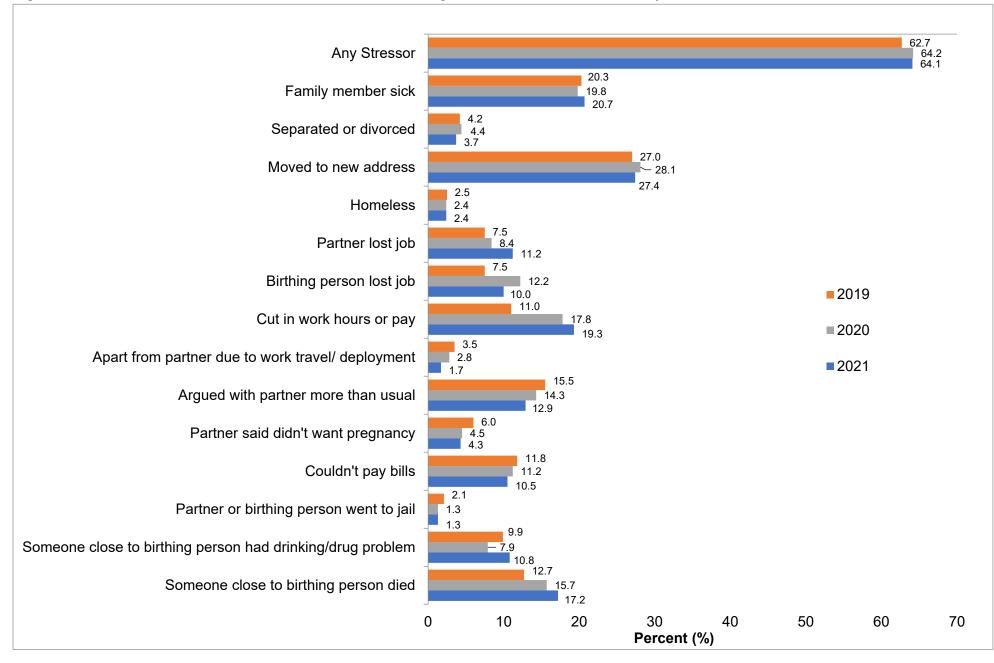


Figure 15. Prevalence of individual stressful life events during the 12 months before delivery, MA PRAMS, 2019-2021

		Overall	White	non-Hispanic	Black	non-Hispanic		Hispanic	Asia	n non-Hispanic	Othe	er non-Hispanic
Stressor	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n ¹	Percentage (95% Cl)
Total (Any stressor)	41,125	62.7 (59.6-65.7)	24,133	61.2 (56.4-65.7)	4,321	68.1 (62.5-73.2)	9,028	71.2 (66.6-75.4)	2,589	45.4 (39.9-50.9)	416	66.3 (47.4-81.1)
A close family member was sick /in hospital	13,381	20.3 (17.8-23.0)	9,100	23 (19.2-27.2)	887	13.9 (10.2-18.5)	2,483	19.4 (15.8-23.7)	626	10.9 (7.9-14.8)	136	21.6 (10.1-40.2)
Got separated or divorced from partner	2,782	4.2 (3.3-5.5)	698	1.8 (0.9-3.5)	511	8.0 (4.8-12.9)	1,305	10.2 (7.6-13.7)	Ins	sufficient data ²	Ins	ufficient data ²
Moved to a new address	17,760	27.0 (24.3-29.8)	10,065	25.4 (21.5-29.7)	1,800	28.4 (23.2-34.3)	4,005	31.5 (27.1-36.3)	1,397	24.3 (19.9-29.4)	230	36.6 (21.4-55.1)
Homeless or had to sleep outside, in car, in shelter	41,125	62.7 (59.6-65.7)	324	0.8 (0.3-2.3)	333	5.2 (3.2-8.3)	738	5.8 (3.8-8.8)	Ins	sufficient data ²	0	0 ()
Partner lost job	4,935	7.5 (6.0-9.3)	2,791	7.1 (5.0-9.9)	422	6.6 (4.4-9.9)	1,352	10.8 (8.0-14.2)	129	2.2 (1.1-4.6)	Ins	ufficient data ²
Birthing person lost job	4,952	7.5 (6.1-9.2)	1,970	5.0 (3.2-7.6)	742	11.7 (8.6-15.8)	1,810	14.3 (11.1-18.1)	188	3.3 (1.8-6.0)	Ins	ufficient data ²
Partner or birthing person had reduced work/pay	7,185	11.0 (9.2-13.0)	3,671	9.3 (6.9-12.4)	929	14.7 (11.2-19)	2,041	16.2 (12.9-20.2)	241	4.2 (2.6-6.9)	Ins	ufficient data ²
Apart from partner due to military deployment or extended work-related travel	2,332	3.5 (2.5-4.9)	1,334	3.4 (2.0-5.7)	235	3.7 (2.2-6.1)	437	3.4 (2-5.7)	215	3.7 (2.2-6.4)	0	0 ()
Argued with partner more than usual	10,197	15.5 (13.4-17.9)	5,494	13.9 (10.9-17.6)	1,464	23 (18.4-28.3)	2,406	18.9 (15.4-23.1)	497	8.7 (6.1-12.4)	110	17.6 (7.6-35.7)
Partner didn't want birthing person to be pregnant	3,929	6.0 (4.6-7.7)	1,967	5.0 (3.2-7.7)	688	10.8 (7.9-14.6)	1,078	8.5 (6.0-11.8)	Ins	sufficient data ²	Ins	ufficient data ²
Problems paying rent, mortgage, other bills	7,733	11.8 (9.9-13.9)	4,005	10.2 (7.6-13.5)	1,094	17.1 (13.4-21.5)	2,136	16.8 (13.4-20.9)	153	2.7 (1.3-5.4)	Ins	ufficient data ²
Partner or birthing person went to jail	1,354	2.1 (1.4-3.2)	535	1.4 (0.6-2.9)	130	2.1 (0.9-4.8)	441	3.5 (2.0-6.0)	0	0 ()	Ins	ufficient data ²
Someone close to birthing person had problem with drinking/drugs	6,518	9.9 (8.1-12.1)	4,749	12.0 (9.3-15.5)	468	7.3 (4.4-12.0)	1,083	8.5 (6.1-11.8)	Ins	sufficient data ²	0	0 ()
Someone very close to birthing person died	8,363	12.7 (10.8-14.9)	4,788	12.2 (9.4-15.6)	887	13.9 (10.7-17.8)	2,056	16.1 (12.9-20.1)	300	5.2 (3.2-8.3)	110	17.6 (7.6-35.7)

Table 30. Prevalence	ce of st	ressors in the	12 mo	onths before d	elivery	/, by race/ethr	nicity, N	IA PRAMS, 2	020			
		Overall	White	non-Hispanic	Blac	k non-Hispanic		Hispanic	Asiar	n non-Hispanic	Othe	[,] non-Hispanic
Stressor	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n ¹	Percentage (95% Cl)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total (Any stressor)	40,626	64.2 (60.8-67.4)	23,202	63.4 (58.0-68.4)	4,332	70.6 (65.4-75.3)	8,753	65.9 (60.7-70.7)	3,295	55.0 (49.2-60.6)	281	68.9 (43.5-86.5)
A close family member was sick /in hospital	12,522	19.8 (17.0-22.8)	8,660	23.7 (19.3-28.7)	1,069	17.0 (12.8-22.4)	1,892	14.3 (11.1-18.3)	510	8.6 (5.9-12.3)	Ins	ufficient data ²
Got separated or divorced from partner	2,797	4.4 (3.2-6.1)	1,101	3.0 (1.5-5.9)	501	8.1 (4.7-13.4)	1,101	8.3 (5.7-11.8)		ufficient data ²	Ins	ufficient data ²
Moved to a new address	17,812	28.1 (25.1-31.2)	9,532	26 (21.6-31)	1,811	28.9 (24.2-34.2)	3,824	28.7 (24.2-33.7)	1,968	32.8 (27.7-38.3)	116	29.8 (12.7-55.3)
Homeless or had to sleep outside, in car, in shelter	1,513	2.4 (1.5-3.8)	699	1.9 (0.8-4.7)	291	4.6 (2.7-7.9)	489	3.7 (2.0-6.5)	Ins	ufficient data ²	0	0 ()
Partner lost job	5,297	8.4 (6.6-10.5)	2,520	6.9 (4.5-10.5)	682	11.0 (8.0-14.8)	1,649	12.4 (9.2-16.4)	274	4.6 (2.6-8.0)	73	17.9 (5.7-44.0)
Birthing person lost job	7,731	12.2 (10.1-14.7)	3,639	9.9 (6.9-14.1)	944	15.2 (11.7-19.4)	2,480	18.7 (14.9-23.2)	551	9.3 (6.3-13.4)	Ins	ufficient data ²
Partner or birthing person had reduced work/pay	11,197	17.8 (15.2-20.6)	6,132	16.8 (13-21.4)	1,477	24.1 (19.3-29.8)	2,543	19.5 (15.6-24.1)	856	14.4 (10.7-19.1)	Ins	ufficient data ²
Apart from partner due to military deployment or extended work-related travel	1,783	2.8 (1.8-4.3)	1,022	2.8 (1.4-5.6)	309	5.0 (3.1-8)	233	1.8 (0.8-3.9)	184	3.1 (1.7-5.6)	Ins	ufficient data ²
Argued with partner more than usual	9,023	14.3 (12.0-16.9)	4,531	12.4 (9.1-16.6)	1,178	18.9 (14.9-23.7)	2,588	19.6 (15.6-24.3)	674	11.3 (8.1-15.5)	Ins	ufficient data ²
Partner didn't want birthing person to be pregnant	2,847	4.5 (3.3-6.1)	1,345	3.7 (2.0-6.6)	514	8.3 (5.7-11.8)	797	6.0 (3.9-9.3)	148	2.5 (1.1-5.5)	Ins	ufficient data ²
Problems paying rent, mortgage, other bills	7,051	11.2 (9.3-13.5)	2,840	7.8 (5.2-11.6)	1,159	18.7 (14.9-23.3)	2,618	19.7 (15.8-24.3)	412	6.9 (4.3-11)	Ins	ufficient data ²
Partner or birthing person went to jail	799	1.3 (0.7-2.4)	Insu	ufficient data ²	114	1.8 (0.8-4.1)	253	1.9 (0.9-3.9)	Ins	ufficient data ²	0	0 ()
Someone close to birthing person had a problem with drinking or drugs	5,005	7.9 (6.1-10.2)	3,586	9.8 (6.9-13.7)	430	6.9 (4.6-10.2)	758	5.7 (3.7-8.6)	97	1.6 (0.7-3.8)	Ins	ufficient data ²
Someone very close to birthing person died	9,948	15.7 (13.2-18.5)	5,758	15.7 (12-20.4)	1,213	19.4 (14.9-24.9)	2,152	16.1 (12.6-20.4)	381	6.4 (4.1-9.9)	115	29.3 (12.5-54.7)
¹ n weighted to reflect birthin	ng populat	tion; ² Insufficient da	ta to repo	rt (0 <n<5)< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></n<5)<>								

Table 31. Preval	ence of	stressors in the	12 mor	ths before deliv	ery, by	race/ethnicity	, MA I	PRAMS, 2021				
		Overall	Whit	te non-Hispanic	Black	non-Hispanic		Hispanic	Asia	n non-Hispanic	Othe	er non-Hispanic
Stressor	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)
Total (Any stressor)	42,341	64.1 (60.7-67.4)	24,507	62.4 (57.1-67.3)	4,673	74 (68.1-79.2)	9,586	70.7 (65.7-75.3)	2,762	55 (48.6-61.2)	179	58.9 (31.1-82.0)
A close family member was sick /in hospital	13,367	20.7 (18-23.7)	9,291	23.6 (19.5-28.4)	1,265	19.8 (15.6-24.8)	2,094	15.5 (12.0-19.6)	682	13.6 (9.8-18.5)	In	sufficient data ²
Got separated or divorced from partner	2,412	3.7 (2.7-5.2)	845	2.1 (1.0-4.8)	557	8.8 (5.9-12.9)	940	7.0 (4.8-10.1)	Ins	sufficient data ²	In	sufficient data ²
Moved to a new address	17,674	27.4 (24.4-30.6)	10,186	25.9 (21.5-30.9)	1,976	31.1 (25.9-36.7)	4,076	30.3 (25.6-35.5)	1,364	27.2 (21.9-33.1)	In	sufficient data ²
Homeless or had to sleep outside, in car, in shelter	1,517	2.4 (1.5-3.7)	Ins	sufficient data ²	280	4.4 (2.4-7.8)	636	4.7 (2.8-7.8)	Ins	sufficient data ²	0	0 ()
Partner lost job	7,186	11.2 (9.1-13.7)	4,236	10.8 (7.8-14.7)	644	10.1 (7.1-14.2)	1,949	14.6 (11.2-18.8)	358	7.1 (4.3-11.5)	0	0 ()
Birthing person lost job	6,419	10.0 (8.2-12.1)	2,373	6.0 (3.8-9.4)	981	15.3 (11.5-20.1)	2,671	19.8 (15.8-24.5)	323	6.4 (3.9-10.3)	In	sufficient data ²
Partner or birthing person had reduced work/pay	12,380	19.3 (16.6-22.3)	1,557	24.5 (19.9-29.9)	1,557	24.5 (19.9-29.9)	2,917	21.9 (17.8-26.5)	573	11.5 (7.9-16.3)) Insufficient data ²	
Apart from partner due to military deployment or extended work- related travel	1,127	1.7 (1.1-2.7)	437	1.1 (0.4-2.7)	241	3.8 (2.2-6.5)	450	3.3 (1.9-5.8)	0	0 ()	0	0 ()
Argued with partner more than usual	8,341	12.9 (10.7-15.5)	4,783	12.2 (9.0-16.3)	1,171	18.4 (14.2-23.5)	1,868	13.8 (10.6-17.9)	Ins	sufficient data ²	In	sufficient data ²
Partner didn't want birthing person to be pregnant	2,738	4.3 (3.1-5.9)	1,432	3.7 (2.1-6.4)	492	7.7 (5.1-11.5)	689	5.1 (3.2-8.2)	Ins	sufficient data ²	In	sufficient data ²
Problems paying rent, mortgage, other bills	6,779	10.5 (8.6-12.7)	2,627	6.7 (4.3-10.2)	1,064	16.7 (12.8-21.5)	2,750	20.4 (16.5-25)	249	5.0 (2.5-9.6)	In	sufficient data ²
Partner or birthing person went to jail	851	1.3 (0.7-2.4)	Ins	sufficient data ²	223	3.5 (1.7-6.9)	8	289	Ins	sufficient data ²	0	0 ()
Someone close to birthing person had a problem with drinking or drugs	6,972	10.8 (8.6-13.5)	5,233	13.3 (9.9-17.6)	525	8.2 (5.5-12.0)	1,052	7.8 (5.4-11.2)	161	3.2 (1.5-6.7)	0	0 ()
Someone very close to birthing person died	11,096	17.2 (14.8-19.9)	6,398	16.3 (12.8-20.5)	1,648	25.9 (21-31.5)	2,585	19.2 (15.3-23.7)	448	8.9 (5.8-13.4)	In	sufficient data ²
¹ n weighted to reflect birt	hing popula	ation; ² Insufficient data t	o report (0<	n<5)								

sociodemographic c	haracterist	ics, MA PRAMS						
	Smoking pr	ior to pregnancy ³		moking in regnancy⁴	Smoki	ng postpartum⁵	Sm	oking relapse ⁶
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	7,656	11.6 (9.6-14.0)	2,942	4.5 (3.3-6.0)	4,273	6.5 (5.0-8.3)	1,401	29.5 (19.1-42.7)
Race/ethnicity								
White, non-Hispanic	5,816	14.7 (11.6-18.5)	2,245	5.7 (3.9-8.2)	3,159	8.0 (5.7-11.0)	921	25.7 (13.8-42.7)
Black, non-Hispanic	565	8.8 (6.2-12.3)	181	2.8 (1.5-5.2)	305	4.7 (2.9-7.5)	124	31.2 (15.6-52.8)
Hispanic	754	5.9 (4.0-8.6)	360	2.8 (1.6-4.9)	486	3.8 (2.3-6.2)	152	38.5 (16.9-65.8)
Asian, non-Hispanic	271	4.7 (2.7-8.1)	Insu	ufficient data ²	161	2.8 (1.4-5.7)	Ins	sufficient data ²
Other, non-Hispanic	Insuf	ficient data ²	Insu	ufficient data ²	Insu	ufficient data ²	Ins	sufficient data ²
Age (years)								
<20	Insuf	ficient data ²	0	0 ()	0	0 ()	0	0 ()
20-29	3,073	14.6 (11.1-19.1)	1,581	7.5 (5.0-11.1)	2,148	10.2 (7.3-14.2)	723	48.1 (28.0-68.8)
30-39	4,096	10.1 (7.7-13.2)	1,217	3.0 (1.9-4.8)	1,980	4.9 (3.3-7.2)	677	23.5 (11.8-41.4)
40+	434	12.4 (5.2-26.7)		ufficient data ²		ufficient data ²	0	0 ()
Education								
<high school<="" td=""><td>530</td><td>11.0 (6.2-18.9)</td><td>371</td><td>7.7 (3.7-15.4)</td><td>446</td><td>9.3 (4.8-17.0)</td><td>Ins</td><td>sufficient data²</td></high>	530	11.0 (6.2-18.9)	371	7.7 (3.7-15.4)	446	9.3 (4.8-17.0)	Ins	sufficient data ²
High school diploma	2,023	21.0 (15.0-28.7)	1,034	10.8 (6.4-17.6)	1,257	13.1 (8.5-19.7)	342	34.5 (15.7-59.9)
Some college	2,861	18.1 (13.4-24.0)	1,127	7.1 (4.4-11.2)	1,880	11.9 (8.1-17.2)	643	36.4 (18.3-59.4)
College graduate	2,068	6.1 (4.1-9.0)	373	1.1 (0.4-2.8)	578	1.7 (0.8-3.7)	Ins	sufficient data ²
Insurance type								
Private	2,737	6.9 (4.9-9.7)	549	1.4 (0.6-3.1)	1,048	2.7 (1.5-4.7)	642	29.3 (14.6-50.3)
Medicaid	4,737	20.6 (16.6-25.2)	2,292	9.9 (7.2-13.6)	3,124	13.6 (10.3-17.7)	759	30.8 (17.3-48.7)
Other	Insuf	ficient data ²	0	0 ()	0	0 ()	0	0 ()
Household poverty level								
≤100% FPL	2,899	22.3 (17.0-28.7)	1,580	12.1 (8.1-17.7)	2,195	16.9 (12.2-22.9)	504	37.9 (19.3-60.8)
>100% FPL	4,570	9.1 (7.1-11.7)	1,200	2.4 (1.5-3.8)	1,916	3.8 (2.6-5.6)	897	26.5 (14.6-43.0)
Nativity	, -	х <i>Г</i>		· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	İ	,
Non-US-born	828	4.4 (2.6-7.3)	Insu	ufficient data ²	Inst	ufficient data ²	Ins	sufficient data ²
US-born	6,829	14.6 (11.9-17.7)	2,838	6.0 (4.4-8.2)	3,940	8.4 (6.4-10.9)	1,146	28.5 (17.6-42.8)
Marital status	.,	- ()	,		-,		, -	
Unmarried	4,744	22.6 (18.2-27.6)	2,348	11.2 (8.1-15.2)	3,038	14.5 (10.9-18.9)	735	30.5 (17.0-48.5)
Married	2,912	6.5 (4.6-9.0)	595	1.3 (0.6-2.7)	1,235	2.7 (1.6-4.6)	665	28.5 (14.4-48.7)
WIC participation	,	x -1		, <i>/</i>			Ì	· · · · /
No	3,830	8.5 (6.4-11.2)	938	2.1 (1.2-3.5)	1,714	3.8 (2.5-5.8)	801	27.7 (14.9-45.5)
Yes	3,732	18.3 (14.3-23.1)	2,005	9.8 (6.9-13.8)	2,559	12.5 (9.2-16.9)	600	34.1 (18.0-55.1)
Disability status				· · · · · · · · · · · · · · · · · · ·	, -	, <u>1</u>		
No	5,953	10.2 (8.2-12.6)	2,299	3.9 (2.8-5.5)	3,281	5.6 (4.2-7.5)	1,014	27.5 (16.3-42.5)
Yes	1,678	24.7 (17-34.3)	618	9.1 (4.9-16.2)	968	14.2 (8.5-22.7)	387	36.5 (15.5-64.4)
	.,	((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Table 32. Prevalence of smoking prior to pregnancy, during pregnancy, and postpartum by sociodemographic characteristics, MA PRAMS, 2019

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Smoking during the 3 months prior to pregnancy; ⁴Smoking in the last 3 months of pregnancy; ⁵Smoking in postpartum period; ⁶Smoking relapse among those who had smoked three months prior to pregnancy but quit in pregnancy.

Table 33. Prevalence of smoking prior to pregnancy, during pregnancy, and postpartum by
sociodemographic characteristics, MA PRAMS, 2020

				Smoki	ng postpartum⁵	Smok	ing relapse ⁶
n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% Cl
5,824	9.1 (7.1-11.7)	2,472	3.9 (2.5-6.0)	4,070	6.4 (4.6-8.8)	1,425	42.3 (27.1-59.2
4,492	12.2 (8.9-16.6)	2,132	5.8 (3.5-9.4)	3,252	8.9 (5.9-13.0)	921	39.0 (20.0-62.1
262	4.1 (2.5-6.7)	104	1.6 (0.8-3.3)	161	2.5 (1.4-4.7)	Insuf	ficient data ²
851	6.4 (4.1-9.7)	203	1.5 (0.6-3.7)	642	4.8 (2.8-8.1)	432	66.7 (42.3-84.6
220	3.6 (1.9-6.9)	Insu	ifficient data ²	Insu	ufficient data ²	0	0 (
0	0 ()	0	0 ()	0	0 ()	0	0 (
							· · · ·
400	28.8 (12.6-53.2)	Insu	ufficient data ²	Insi	ufficient data ²	Insuf	ficient data ²
2,505	12.1 (8.1-17.7)	1,264	6.1 (3.2-11.1)	2,075	10.0 (6.2-15.6)	606	48.8 (23.4-74.9)
2,272	6.1 (4.0-9.1)	769	2.1 (0.9-4.5)	1,294	3.5 (1.9-6.3)	557	36.7 (16.6-62.8)
647	15.5 (7.9-28.2)	Insu	ifficient data ²	503	12.1 (5.2-25.5)	Insuf	ficient data ²
601	12.4 (5.7-25.2)	366	7.6 (2.4-21.8)	427	8.8 (3.2-22.4)	Insuf	ficient data ²
1,819	18.6 (11.9-27.8)	747	7.6 (3.7-15.0)	1,282	13.1 (7.6-21.6)	584	53.7 (24.2-80.8
2,035	15.5 (10.1-23.1)	1,259	9.6 (5.1-17.3)	1,793	13.7 (8.3-21.7)	329	42.3 (17.8-71.3
1,335		Insu		568		452	36.6 (14.3-66.6
2,034	5.4 (3.6-8.2)	Insu	ufficient data ²	1,199	3.2 (1.7-5.9)	631	37.2 (17.4-62.5
3,065	13.3 (9.5-18.5)	1,935	8.4 (5.2-13.3)	2,581	11.2 (7.6-16.4)	703	61.4 (36.4-81.5
Ins	sufficient data ²	0	0 ()	Inst	ufficient data ²	0	0 (
1,586	13.4 (8.5-20.4)	738	6.2 (3.1-12.3)	967	8.2 (4.6-14.2)	255	30.0 (11.5-58.7)
3,888	8.2 (5.9-11.2)	1,490	3.1 (1.8-5.6)	2,601	5.5 (3.6-8.3)	1,079	44.7 (26.2-64.9
							·
740	3.4 (1.5-7.2)	Insu	ifficient data ²	Inst	ufficient data ²	Insuf	ficient data ²
5,084	12.2 (9.3-15.8)	2,259	5.4 (3.5-8.4)	3,582	8.6 (6.1-12.0)	1,136	40.0 (24.2-58.2
			. ,				•
3,615	18.4 (13.6-24.5)	1,725	8.8 (5.4-14.1)	2,563	13.1 (8.9-18.8)	880	46.2 (26.4-67.3
2,210	5.0 (3.2-7.7)	747	1.7 (0.7-4.0)	1,507	3.4 (1.9-6.1)	545	37.3 (16.2-64.6
	· · · · · ·		,		· · · · ·		
2,814	6.6 (4.5-9.6)	885	2.1 (1.0-4.4)	1,607	3.8 (2.2-6.4)	691	35.8 (17.3-59.9
3,010	14.5 (10.4-19.9)	1,587	7.6 (4.5-12.6)	2,463	11.8 (7.9-17.4)	734	51.0 (29.0-72.7
	· · · · ·				· · · · · ·		•
4,310	7.7 (5.7-10.2)	1,628	2.9 (1.7-4.9)	2,991	5.3 (3.6-7.8)	1,212	44.9 (27.7-63.4
1,469	21.7 (13.0-33.9)	829	12.2 (5.7-24.4)	1,034	15.2 (8-27.1)	183	28.6 (7.4-66.7
	n ¹ 5,824 4,492 262 851 220 0 400 2,505 2,272 647 - - - - - - - - - - - - - - - - - - -	II(95% $\tilde{Cl})$ 5,8249.1 (7.1-11.7)4,49212.2 (8.9-16.6)2624.1 (2.5-6.7)8516.4 (4.1-9.7)2203.6 (1.9-6.9)00 ()40028.8 (12.6-53.2)2,50512.1 (8.1-17.7)2,2726.1 (4.0-9.1)64715.5 (7.9-28.2)60112.4 (5.7-25.2)1,81918.6 (11.9-27.8)2,03515.5 (10.1-23.1)1,3353.9 (2.3-6.5)2,0345.4 (3.6-8.2)3,06513.3 (9.5-18.5)Insufficient data ² 7403.4 (1.5-7.2)5,08412.2 (9.3-15.8)2,2105.0 (3.2-7.7)2,8146.6 (4.5-9.6)3,01014.5 (10.4-19.9)4,3107.7 (5.7-10.2)	pregnancy ³ p n1 Percentage (95% Cl) n1 5,824 9.1 (7.1-11.7) 2,472 4,492 12.2 (8.9-16.6) 2,132 262 4.1 (2.5-6.7) 104 851 6.4 (4.1-9.7) 203 220 3.6 (1.9-6.9) Inst 0 0 () 0 400 28.8 (12.6-53.2) Inst 2,505 12.1 (8.1-17.7) 1,264 2,272 6.1 (4.0-9.1) 769 647 15.5 (7.9-28.2) Inst 601 12.4 (5.7-25.2) 366 1,819 18.6 (11.9-27.8) 747 2,035 15.5 (10.1-23.1) 1,259 1,335 3.9 (2.3-6.5) Inst 3,065 13.3 (9.5-18.5) 1,935 Inst 11.259 13.3 3,065 13.3 (9.5-18.5) 1,935 Inst 5,084 13.4 (8.5-20.4) 738 3,815 13.4 (1.5-7.2) Inst 740 3.4 (1.5-7.2)	pregnancy3 $pregnancy4$ n1Percentage (95% CI)n1Percentage (95% CI)5,8249.1 (7.1-11.7)2,4723.9 (2.5-6.0)4,49212.2 (8.9-16.6)2,1325.8 (3.5-9.4)2624.1 (2.5-6.7)1041.6 (0.8-3.3)8516.4 (4.1-9.7)2031.5 (0.6-3.7)2203.6 (1.9-6.9)Insufficient data200 ()00 ()440028.8 (12.6-53.2)Insufficient data22,50512.1 (8.1-17.7)1,2646.1 (3.2-11.1)2,2726.1 (4.0-9.1)7692.1 (0.9-4.5)64715.5 (7.9-28.2)Insufficient data260112.4 (5.7-25.2)3667.6 (2.4-21.8)1,81918.6 (11.9-27.8)7477.6 (3.7-15.0)2,03515.5 (10.1-23.1)1,2599.6 (5.1-17.3)1,3353.9 (2.3-6.5)Insufficient data22,0345.4 (3.6-8.2)Insufficient data22,0345.4 (3.6-8.2)Insufficient data23,06513.3 (9.5-18.5)1,9358.4 (5.2-13.3)Insufficient data200 ()7403.4 (1.5-7.2)Insufficient data27403.4 (1.5-7.2)Insufficient data23,61518.4 (13.6-24.5)1,7258.8 (5.4-14.1)2,2105.0 (3.2-7.7)7471.7 (0.7-4.0)7403.4 (1.5-7.2)Insufficient data27403.4 (1.5-7.2)Insufficient data27403.4 (1.5-7.2)Insufficient data274	pregnancy3 $pregnancy4$ Smokn1Percentage (95% CI)n1Percentage (95% CI)n15,8249.1 (7.1-11.7)2,4723.9 (2.5-6.0)4,0704,49212.2 (8.9-16.6)2,1325.8 (3.5-9.4)3,2522624.1 (2.5-6.7)1041.6 (0.8-3.3)1618516.4 (4.1-9.7)2031.5 (0.6-3.7)6422203.6 (1.9-6.9)Insufficient data2Insu00 ()00 ()040028.8 (12.6-53.2)Insufficient data2Insu2,50512.1 (8.1-17.7)1,2646.1 (3.2-11.1)2,0752,2726.1 (4.0-9.1)7692.1 (0.9-4.5)1,29464715.5 (7.9-28.2)Insufficient data250360112.4 (5.7-25.2)3667.6 (2.4-21.8)4271,81918.6 (11.9-27.8)7477.6 (3.7-15.0)1,2822,03515.5 (10.1-23.1)1,2599.6 (5.1-17.3)1,7931,3353.9 (2.3-6.5)Insufficient data25682,0345.4 (3.6-8.2)Insufficient data21,1993,06513.3 (9.5-18.5)1,9358.4 (5.2-13.3)2,581Insufficient data200 ()Insu7403.4 (1.5-7.2)Insufficient data21,5077403.4 (1.5-7.2)Insufficient data21,5077403.4 (1.5-7.2)Insufficient data21,5077403.4 (1.5-7.2)Insufficient data21,507740	$\begin{array}{ c c c c c c } \hline pregnancy^4 & Smoking postpartume \\ \hline pregnancy^4 & Smoking postpartume \\ \hline m^1 & Percentage (95% CI) & n^1 & Percentage (95% CI) \\ \hline s.824 & 9.1 (7.1-11.7) & 2.472 & 3.9 (2.5-6.0) & 4.070 & 6.4 (4.6-8.8) \\ \hline 4.492 & 12.2 (8.9-16.6) & 2.132 & 5.8 (3.5-9.4) & 3.252 & 8.9 (5.9-13.0) \\ 262 & 4.1 (2.5-6.7) & 104 & 1.6 (0.8-3.3) & 161 & 2.5 (1.4-4.7) \\ 851 & 6.4 (4.1-9.7) & 203 & 1.5 (0.6-3.7) & 642 & 4.8 (2.8-8.1) \\ 220 & 3.6 (1.9-6.9) & Insufficient data^2 & Insufficient data^2 \\ 0 & 0 & () & 0 & 0 & () \\ \hline 400 & 28.8 (12.6-53.2) & Insufficient data^2 & Insufficient data^2 \\ 2.505 & 12.1 (8.1-17.7) & 1.264 & 6.1 (3.2-11.1) & 2.075 & 10.0 (6.2-15.6) \\ 2.272 & 6.1 (4.0-9.1) & 769 & 2.1 (0.9-4.5) & 1.294 & 3.5 (1.9-6.3) \\ 647 & 15.5 (7.9-28.2) & Insufficient data^2 & 503 & 12.1 (5.2-25.5) \\ \hline 601 & 12.4 (5.7-25.2) & 366 & 7.6 (2.4-21.8) & 427 & 8.8 (3.2-22.4) \\ 1.819 & 18.6 (11.9-27.8) & 747 & 7.6 (3.7-15.0) & 1.282 & 13.1 (7.6-21.6) \\ 2.035 & 15.5 (10.1-23.1) & 1.259 & 9.6 (5.1-17.3) & 1.793 & 13.7 (8.3-21.7) \\ 1.335 & 3.9 (2.3-6.5) & Insufficient data^2 & 568 & 1.6 (0.7-4.0) \\ \hline & & & & & & & & & & & & & & & & & &$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

pregnancy; ⁵Smoking in postpartum period; ⁶Smoking relapse among those who had smoked three months prior to pregnancy but quit in pregnancy.

		Smoking prior to pregnancy ³		ng in pregnancy ⁴	Smok	ing postpartum⁵	Smol	king relapse ⁶
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)
Total	5,458	8.2 (6.3-10.8)	2,444	3.7 (2.4-5.6)	3,108	4.7 (3.2-6.8)	815	27.0 (13.6-46.7)
Race/ethnicity								
White, non-Hispanic	4,166	10.6 (7.5-14.8)	1,850	4.7 (2.7-8.0)	2,451	6.2 (3.9-9.8)	601	26.0 (10.4-51.6)
Black, non-Hispanic	311	4.8 (2.7-8.5)	187	2.9 (1.3-6.3)	231	3.6 (1.8-7.0)	Insu	fficient data ²
Hispanic	820	6.0 (4.0-9.0)	353	2.6 (1.3-5.0)	390	2.9 (1.5-5.3)	Insu	fficient data ²
Asian, non-Hispanic	107	2.1 (0.9-5.1)	Ins	sufficient data ²	Ins	sufficient data ²	0	0 ()
Other, non-Hispanic	Ins	ufficient data2	0	0 ()	0	0 ()	0	0 ()
Age (years)								
<20	Ins	ufficient data ²	Ins	sufficient data ²	0	0 ()	0	0 ()
20-29	1,703	9.0 (5.6-14.3)	963	5.1 (2.6-10.0)	1,163	6.2 (3.3-11.3)	Insu	fficient data ²
30-39	3,561	8.1 (5.8-11.3)	1,450	3.3 (1.9-5.7)	1,945	4.4 (2.8-7.1)	569	26.9 (11.5-51.1)
40+	0	0 ()	0	0 ()	0	0 ()	0	. ()
Education								
<high school<="" td=""><td>226</td><td>4.9 (1.8-12.7)</td><td>Ins</td><td>sufficient data²</td><td>Ins</td><td>sufficient data²</td><td>Insu</td><td>fficient data²</td></high>	226	4.9 (1.8-12.7)	Ins	sufficient data ²	Ins	sufficient data ²	Insu	fficient data ²
High school diploma	1,488	15.3 (9.4-23.9)	644	6.6 (3.2-13.1)	817	8.4 (4.3-15.8)	Insu	fficient data ²
Some college	2,266	17.4 (11.5-25.4)	1,319	10.1 (5.5-17.9)	1,568	12.0 (7.0-20.0)	277	29.3 (9.3-62.5)
College graduate	1,443	3.9 (2.2-6.8)	Ins	sufficient data ²	Ins	sufficient data ²	Insu	fficient data ²
Insurance type								
Private	1,256	3.2 (1.8-5.7)	Ins	sufficient data ²	578	1.5 (0.6-3.6)	Insu	fficient data ²
Medicaid	3,821	16.8 (12.4-22.4)	2,127	9.4 (6.0-14.3)	2,370	10.4 (6.9-15.5)	375	22.1 (8.6-46.2)
Other	Ins	ufficient data ²	Ins	sufficient data ²	0	0 ()	0	0 ()
Household poverty level								
≤100% FPL	2,114	18.1 (12.1-26.3)	1,324	11.3 (6.5-19.1)	1,405	12 (7.1-19.7)	140	17.7 (6.1-41.6)
>100% FPL	2,949	5.8 (4.0-8.3)	1,084	2.1 (1.1-4.0)	1,470	2.9 (1.6-5.1)	477	25.6 (9.7-52.4)
Nativity								
Non-US-born	485	2.3 (1.2-4.5)		sufficient data ²		sufficient data ²	Insu	fficient data ²
US-born	4,973	11 (8.3-14.6)	2,360	5.2 (3.4-8.0)	3,019	6.7 (4.5-9.8)	761	29.1 (14.0-51.0)
Marital status								
Unmarried	4,112	19.9 (14.7-26.5)	1,987	9.6 (6.0-15.1)	2,490	12.1 (7.9-18)	636	29.9 (13.0-54.9)
Married	1,346	3.0 (1.8-4.8)	457	1.0 (0.4-2.3)	619	1.4 (0.7-2.7)	Insu	fficient data ²
WIC participation								
No	2,521	5.4 (3.6-8.0)	921	2.0 (1.0-3.9)	1,170	2.5 (1.3-4.6)	Insu	fficient data ²
Yes	2,937	15.2 (10.7-21.3)	1,523	7.9 (4.6-13.1)	1,939	10.1 (6.3-15.7)	475	33.6 (13.3-62.4)
Disability status								
No	3,789	6.5 (4.7-9.1)	1,336	2.3 (1.3-4.1)	1,740	3.0 (1.8-5.0)	487	19.9 (7.8-42.1)
Yes	1,597	21.3 (13.5-31.8)	1,072	14.3 (7.8-24.7)	1,333	17.8 (10.4-28.7)	328	62.5 (29.5-86.9)

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Smoking during the 3 months prior to pregnancy; ⁴Smoking in the last 3 months pregnancy; ⁵Smoking in postpartum period; ⁶Smoking relapse among those who had smoked three months prior to pregnancy but quit in pregnancy.

Table 35. Prevalence of smoking prior to pregnancy by sociodemographic characteristics, MA PRAMS, 2019-2021

			Smoking	prior to pregnancy ³		
		2019		2020		2021
Characteristic	n¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)	n¹	Percentage (95% CI)
Total	7,656	11.6 (9.6-14.0)	5,824	9.1 (7.1-11.7)	5,458	8.2 (6.3-10.8)
Race/ethnicity						
White, non-Hispanic	5,816	14.7 (11.6-18.5)	4,492	12.2 (8.9-16.6)	4,166	10.6 (7.5-14.8)
Black, non-Hispanic	565	8.8 (6.2-12.3)	262	4.1 (2.5-6.7)	311	4.8 (2.7-8.5)
Hispanic	754	5.9 (4.0-8.6)	851	6.4 (4.1-9.7)	820	6.0 (4.0-9.0)
Asian, non-Hispanic	271	4.7 (2.7-8.1)	220	3.6 (1.9-6.9)	107	2.1 (0.9-5.1)
Other, non-Hispanic	Insuff	icient data ²	0	0 ()		nsufficient data ²
Age (years)						
<20	Insuff	icient data ²	400	28.8 (12.6-53.2)		nsufficient data ²
20-29	3,073	14.6 (11.1-19.1)	2,505	12.1 (8.1-17.7)	1,703	9 (5.6-14.3)
30-39	4,096	10.1 (7.7-13.2)	2,272	6.1 (4.0-9.1)	3,561	8.1 (5.8-11.3)
40+	434	12.4 (5.2-26.7)	647	15.5 (7.9-28.2)	0	0 ()
Education		\$ <i>i</i> i		, <i>,</i> , ,		
<high school<="" td=""><td>530</td><td>11.0 (6.2-18.9)</td><td>601</td><td>12.4 (5.7-25.2)</td><td>226</td><td>4.9 (1.8-12.7)</td></high>	530	11.0 (6.2-18.9)	601	12.4 (5.7-25.2)	226	4.9 (1.8-12.7)
High school diploma	2,023	21.0 (15.0-28.7)	1,819	18.6 (11.9-27.8)	1,488	15.3 (9.4-23.9)
Some college	2,861	18.1 (13.4-24.0)	2,035	15.5 (10.1-23.1)	2,266	17.4 (11.5-25.4)
College graduate	2,068	6.1 (4.1-9.0)	1,335	3.9 (2.3-6.5)	1,443	3.9 (2.2-6.8)
Insurance type						· · · · · · · · · · · · · · · · · · ·
Private	2,737	6.9 (4.9-9.7)	2,034	5.4 (3.6-8.2)	1,256	3.2 (1.8-5.7)
Medicaid	4,737	20.6 (16.6-25.2)	3,065	13.3 (9.5-18.5)	3,821	16.8 (12.4-22.4)
Other		icient data ²		sufficient data ²		nsufficient data ²
Household poverty level						
≤100% FPL	2,899	22.3 (17.0-28.7)	1,586	13.4 (8.5-20.4)	2,114	18.1 (12.1-26.3)
>100% FPL	4,570	9.1 (7.1-11.7)	3,888	8.2 (5.9-11.2)	2,949	5.8 (4.0-8.3)
Nativity	,	- / /	- ,	- (/	,	
Non-US-born	828	4.4 (2.6-7.3)	740	3.4 (1.5-7.2)	485	2.3 (1.2-4.5)
US-born	6,829	14.6 (11.9-17.7)	5,084	12.2 (9.3-15.8)	4,973	11 (8.3-14.6)
Marital status	-,		-,		.,	
Unmarried	4,744	22.6 (18.2-27.6)	3,615	18.4 (13.6-24.5)	4,112	19.9 (14.7-26.5)
Married	2,912	6.5 (4.6-9.0)	2,210	5.0 (3.2-7.7)	1,346	3.0 (1.8-4.8)
WIC participation	0	(-)	0	(-)	.,	
No	3,830	8.5 (6.4-11.2)	2,814	6.6 (4.5-9.6)	2,521	5.4 (3.6-8.0)
Yes	3,732	18.3 (14.3-23.1)	3,010	14.5 (10.4-19.9)	2,937	15.2 (10.7-21.3)
Disability status	0,102		0,010		_,	
No	5,953	10.2 (8.2-12.6)	4,310	7.7 (5.7-10.2)	3,789	6.5 (4.7-9.1)
Yes	1,678	24.7 (17.0-34.3)	1,469	21.7 (13.0-33.9)	1,597	21.3 (13.5-31.8)
¹ n weighted to reflect birthing po						

Table 36. Prevalence of smoking during pregnancy by sociodemographic characteristics, MA PRAMS, 2019-2021

			ne last 3 m	onths of pregnan	су	
	201	-		2020		2021
Characteristic	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	2,942	4.5 (3.3-6.0)	2,472	3.9 (2.5-6.0)	2,444	3.7 (2.4-5.6)
Race/ethnicity						
White, non-Hispanic	2,245	5.7 (3.9-8.2)	2,132	5.8 (3.5-9.4)	1,850	4.7 (2.7-8.0)
Black, non-Hispanic	181	2.8 (1.5-5.2)	104	1.6 (0.8-3.3)	187	2.9 (1.3-6.3)
Hispanic	360	2.8 (1.6-4.9)	203	1.5 (0.6-3.7)	353	2.6 (1.3-5.0)
Asian, non-Hispanic	Insufficier		Insu	fficient data ²	Insut	fficient data ²
Other, non-Hispanic	Insufficier	nt data ²	0	0 ()	0	0 ()
Age (years)						
<20	0	0 ()	Insu	fficient data ²	Insut	fficient data ²
20-29	1,581	7.5 (5.0-11.1)	1,264	6.1 (3.2-11.1)	963	5.1 (2.6-10.0)
30-39	1,217	3.0 (1.9-4.8)	769	2.1 (0.9-4.5)	1,450	3.3 (1.9-5.7)
40+	Insufficier	nt data ²	Insu	fficient data ²	0	0 ()
Education						
<high school<="" td=""><td>371</td><td>7.7 (3.7-15.4)</td><td>366</td><td>7.6 (2.4-21.8)</td><td>Insut</td><td>fficient data²</td></high>	371	7.7 (3.7-15.4)	366	7.6 (2.4-21.8)	Insut	fficient data ²
High school diploma	1,034	10.8 (6.4-17.6)	747	7.6 (3.7-15.0)	644	6.6 (3.2-13.1)
Some college	1,127	7.1 (4.4-11.2)	1,259	9.6 (5.1-17.3)	1,319	10.1 (5.5-17.9)
College graduate	373	1.1 (0.4-2.8)	Insu	fficient data ²	Insut	fficient data ²
Insurance type						
Private	549	1.4 (0.6-3.1)	Insu	fficient data ²	Insut	fficient data ²
Medicaid	2,292	9.9 (7.2-13.6)	1,935	8.4 (5.2-13.3)	2,127	9.4 (6.0-14.3)
Other	0	0 ()	0	0 ()	Insut	fficient data ²
Household poverty level						
≤100% FPL	1,580	12.1 (8.1-17.7)	738	6.2 (3.1-12.3)	1,324	11.3 (6.5-19.1)
>100% FPL	1,200	2.4 (1.5-3.8)	1,490	3.1 (1.8-5.6)	1,084	2.1 (1.1-4.0)
Nativity						
Non-US-born	Insufficier			fficient data ²		fficient data ²
US-born	2,838	6.0 (4.4-8.2)	2,259	5.4 (3.5-8.4)	2,360	5.2 (3.4-8.0)
Marital status						
Unmarried	2,348	11.2 (8.1-15.2)	1,725	8.8 (5.4-14.1)	1,987	9.6 (6.0-15.1)
Married	595	1.3 (0.6-2.7)	747	1.7 (0.7-4.0)	457	1.0 (0.4-2.3)
WIC participation						
No	938	2.1 (1.2-3.5)	885	2.1 (1.0-4.4)	921	2.0 (1.0-3.9)
Yes	2,005	9.8 (6.9-13.8)	1,587	7.6 (4.5-12.6)	1,523	7.9 (4.6-13.1)
Disability status						
No	2,299	3.9 (2.8-5.5)	1,628	2.9 (1.7-4.9)	1,336	2.3 (1.3-4.1)
Yes	618	9.1 (4.9-16.2)	829	12.2 (5.7-24.4)	1,072	14.3 (7.8-24.7)

Table 37. Prevalence of smoking postpartum by sociodemographic characteristics, MA PRAMS, 2019-2021

		Smo	oking in the	e postpartum period	l	
		2019		2020		2021
Characteristic	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	4,273	6.5 (5.0-8.3)	4,070	6.4 (4.6-8.8)	3,108	4.7 (3.2-6.8)
Race/ethnicity						
White, non-Hispanic	3,159	8.0 (5.7-11.0)	3,252	8.9 (5.9-13.0)	2,451	6.2 (3.9-9.8)
Black, non-Hispanic	305	4.7 (2.9-7.5)	161	2.5 (1.4-4.7)	231	3.6 (1.8-7.0)
Hispanic	486	3.8 (2.3-6.2)	642	4.8 (2.8-8.1)	390	2.9 (1.5-5.3)
Asian, non-Hispanic	161	2.8 (1.4-5.7)	Insu	fficient data ²	Insuf	ficient data ²
Other, non-Hispanic	Insu	fficient data ²	0	0 ()	0	0 ()
Age (years)						
<20	0	0 ()	Insu	fficient data ²	0	0 ()
20-29	2,148	10.2 (7.3-14.2)	2,075	10.0 (6.2-15.6)	1,163	6.2 (3.3-11.3)
30-39	1,980	4.9 (3.3-7.2)	1,294	3.5 (1.9-6.3)	1,945	4.4 (2.8-7.1)
40+	Insu	fficient data2	503	12.1 (5.2-25.5)	0	0 ()
Education						
<high school<="" td=""><td>446</td><td>9.3 (4.8-17.0)</td><td>427</td><td>8.8 (3.2-22.4)</td><td>Insuf</td><td>ficient data²</td></high>	446	9.3 (4.8-17.0)	427	8.8 (3.2-22.4)	Insuf	ficient data ²
High school diploma	1,257	13.1 (8.5-19.7)	1,282	13.1 (7.6-21.6)	817	8.4 (4.3-15.8)
Some college	1,880	11.9 (8.1-17.2)	1,793	13.7 (8.3-21.7)	1,568	12.0 (7.0-20.0)
College graduate	578	1.7 (0.8-3.7)	568	1.6 (0.7-4.0)		ficient data ²
Insurance type		、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、		· · · · · · · · · · · · · · · · · · ·		
Private	1,048	2.7 (1.5-4.7)	1,199	3.2 (1.7-5.9)	578	1.5 (0.6-3.6)
Medicaid	3,124	13.6 (10.3-17.7)	2,581	11.2 (7.6-16.4)	2,370	10.4 (6.9-15.5)
Other	0	0 ()		fficient data ²	0	0 ()
Household poverty level						
≤100% FPL	2,195	16.9 (12.2-22.9)	967	8.2 (4.6-14.2)	1,405	12 (7.1-19.7)
>100% FPL	1,916	3.8 (2.6-5.6)	2,601	5.5 (3.6-8.3)	1,470	2.9 (1.6-5.1)
Nativity	,	、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	,	· · · · · · · · · · · · · · · · · · ·	,	
Non-US-born	Insu	fficient data ²	Insu	fficient data ²	Insuf	ficient data ²
US-born	3,940	8.4 (6.4-10.9)	3,582	8.6 (6.1-12.0)	3,019	6.7 (4.5-9.8)
Marital status		· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	,	
Unmarried	3,038	14.5 (10.9-18.9)	2,563	13.1 (8.9-18.8)	2,490	12.1 (7.9-18)
Married	1,235	2.7 (1.6-4.6)	1,507	3.4 (1.9-6.1)	619	1.4 (0.7-2.7)
WIC participation	0	(-)	0	(-)		\
No	1,714	3.8 (2.5-5.8)	1,607	3.8 (2.2-6.4)	1,170	2.5 (1.3-4.6)
Yes	2,559	12.5 (9.2-16.9)	2,463	11.8 (7.9-17.4)	1,939	10.1 (6.3-15.7)
Disability status	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. (,		,	(0.0.00)
No	3,281	5.6 (4.2-7.5)	2,991	5.3 (3.6-7.8)	1,740	3.0 (1.8-5.0)
Yes	968	14.2 (8.5-22.7)	1,034	15.2 (8.0-27.1)	1,333	17.8 (10.4-28.7)
¹ n weighted to reflect birthing pop	oulation: ² Insuff			/	,	,

 Table 38. Prevalence of smoking relapse by sociodemographic characteristics, MA PRAMS, 2019-2021

			Smoking	g relapse ³		
		2019		2020		2021
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	1,401	29.5 (19.1-42.7)	1,425	42.3 (27.1-59.2)	815	27.0 (13.6 46.7
Race/ethnicity				, , , , , , , , , , , , , , , , , , , ,		
White, non-Hispanic	921	25.7 (13.8-42.7)	921	39.0 (20.0-62.1)	601	26.0 (10.4 51.6
Black, non-Hispanic	124	31.2 (15.6-52.8)	Insuf	ficient data ²	Insut	ficient data ²
Hispanic	152	38.5 (16.9-65.8)	432	66.7 (42.3-84.6)	Insu	ficient data ²
Asian, non-Hispanic		fficient data ²	0	0 ()	0	0 (
Other, non-Hispanic	Insu	fficient data ²	0	. ()	0	0 (
Age (years)						
<20	0	0 ()	Insuf	ficient data ²	0	0 (
20-29	723	48.1 (28.0-68.8)	606	48.8 (23.4-74.9)	Insu	ficient data ²
30-39	677	23.5 (11.8-41.4)	557	36.7 (16.6-62.8)	569	26.9 (11.5 51.1
40+	0	0 ()	Insuf	ficient data ²	0	. (
Education		· · · ·				Υ.
<high school<="" td=""><td>Insu</td><td>fficient data²</td><td>Insuf</td><td>ficient data²</td><td>Insu</td><td>ficient data²</td></high>	Insu	fficient data ²	Insuf	ficient data ²	Insu	ficient data ²
High school diploma	342	34.5 (15.7-59.9)	584	53.7 (24.2-80.8)		ficient data ²
Some college	643	36.4 (18.3-59.4)	329	42.3 (17.8-71.3)	277	29.3 (9.3-62.5
College graduate		fficient data ²	452	36.6 (14.3-66.6)		ficient data ²
Insurance type						
Private	642	29.3 (14.6-50.3)	631	37.2 (17.4-62.5)	Insu	ficient data ²
Medicaid	759	30.8 (17.3-48.7)	703	61.4 (36.4-81.5)	375	22.1 (8.6-46.2
Other	0	0 ()	0	0 ()	0	0 (
Household poverty level	0	(-)	0	(-)	-	- (-
≤100% FPL	504	37.9 (19.3-60.8)	255	30.0 (11.5-58.7)	140	17.7 (6.1-41.6
>100% FPL	897	26.5 (14.6-43.0)	1,079	44.7 (26.2-64.9)	477	25.6 (9.7-52.4
Nativity	0	(-)	0	(-)		2010 (011 021
Non-US-born	-	fficient data ²	-	ficient data ²	Insu	ficient data ²
US-born	1,146	28.5 (17.6-42.8)	1,136	40.0 (24.2-58.2)	761	29.1 (14-5
Marital status	0	(-)	0	(-)	101	20.1 (11 0
Unmarried	735	30.5 (17.0-48.5)	880	46.2 (26.4-67.3)	636	29.9 (13.0 54.9
Married	665	28.5 (14.4-48.7)	545	37.3 (16.2-64.6)	Insu	ficient data ²
WIC participation	0	(-)	0	(-)		
No	801	27.7 (14.9-45.5)	691	35.8 (17.3-59.9)	Insu	ficient data ²
Yes	600	34.1 (18.0-55.1)	734	51.0 (29.0-72.7)	475	33.6 (13.3-62.4
Disability status	000	(-)	0	(-)		
No	1,014	27.5 (16.3-42.5)	1,212	44.9 (27.7-63.4)	487	19.9 (7.8-42.1
Yes	387	36.5 (15.5-64.4)	183	28.6 (7.4-66.7)	328	62.5 (29.5 86.9

		ttes/vaping last 2 years ³		ettes/vaping 3 rior pregnancy ⁴	E-cigarettes/vaping last 3 months of pregnancy ⁵			
Characteristic	n ¹	Percentage (95% Cl)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)		
Total	3,177	4.8 (3.6-6.5)	1,704	2.6 (1.7-3.9)	566	0.9 (0.4-1.8)		
Race/ethnicity								
White, non-Hispanic	2,345	6.0 (4.1-8.6)	1,211	3.1 (1.8-5.3)	424	1.1 (0.4-2.8)		
Black, non-Hispanic	203	3.2 (1.8-5.6)	174	2.7 (1.4-5.0)	Insuff	icient data ²		
Hispanic	484	3.8 (2.3-6.3)	251	2.0 (1.0-3.8)	Insuff	icient data ²		
Asian, non-Hispanic	127	2.2 (1.0-4.8)	Insuff	ficient data ²	Insuff	icient data ²		
Other, non-Hispanic	Insuf	ficient data ²	0	0 ()	0	0 (
Age (years)						`		
<20	0	0 ()	0	0 ()	0	0 ()		
20-29	1,403	6.7 (4.5-9.9)	625	3.0 (1.6-5.4)	331	1.6 (0.6-4.2)		
30-39	1,680	4.2 (2.7-6.4)	985	2.5 (1.4-4.3)	235	0.6 (0.2-1.7		
40+	Insuf	ficient data ²	Insuff	ficient data ²	0	0 (
Education								
<high school<="" td=""><td>Insuf</td><td>ficient data²</td><td>Insuff</td><td>ficient data²</td><td>Insuff</td><td>icient data²</td></high>	Insuf	ficient data ²	Insuff	ficient data ²	Insuff	icient data ²		
High school diploma	994	10.4 (6.4-16.6)	770	8.0 (4.4-14.2)	Insuff	icient data ²		
Some college	1,293	8.3 (5.2-12.9)	752	4.8 (2.6-8.7)	321	2 (0.7-5.6		
College graduate	771	2.3 (1.2-4.3)	Insuff	ficient data ²	0	0 (
Insurance type								
Private	1,311	3.3 (2.1-5.3)	485	0.5 (0.1-1.6)	Insuff	icient data ²		
Medicaid	1,695	7.4 (4.9-11.0)	1,116	0.5 (0.1-1.6)	417	1.8 (0.8-4.2		
Other	0	0 ()	0	0.5 (0.1-1.6)	0	0 (
Household poverty level								
≤100% FPL	870	6.7 (4.0-11.0)	578	4.4 (2.3-8.3)	Insuff	icient data ²		
>100% FPL	2,294	4.6 (3.2-6.5)	1,114	2.2 (1.3-3.7)	490	1.0 (0.4-2.3		
Nativity								
Non-US-born	242	1.3 (0.7-2.4)	116	0.6 (0.3-1.5)	Insuff	icient data ²		
US-born	2,935	6.3 (4.6-8.6)	1,588	3.4 (2.2-5.2)	513	1.1 (0.5-2.4		
Marital status		· ·				•		
Unmarried	2,033	9.7 (6.8-13.7)	1,148	5.5 (3.4-8.6)	384	1.8 (0.8-4.4		
Married	1,144	2.6 (1.5-4.2)	556	1.2 (0.6-2.7)	Insuff	icient data ²		
Disability status		· ·						
No	2,531	4.3 (3.1-6.0)	1,359	2.3 (1.5-3.7)	516	0.9 (0.4-2.0		
Yes	646	9.7 (5.1-17.6)	345	5.2 (2.4-11.2)	Insuff	icient data ²		

	E-cigarettes	/vaping last 2 years ³		rettes/vaping 3 prior pregnancy ⁴		es/vaping last 3 of pregnancy ⁵	
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)	
Total	3,262	5.2 (3.7-7.3)	2,442	3.9 (2.6-5.8)	649	1.0 (0.5-2.2	
Race/ethnicity		· · · · ·		· · ·		•	
White, non-Hispanic	2,436	6.7 (4.3-10.3)	1,936	5.3 (3.2-8.6)	603	1.7 (0.7-3.6	
Black, non-Hispanic	234	3.7 (2.0-6.8)	138	2.2 (1.0-4.8)	Insuff	icient data ²	
Hispanic	466	3.6 (2.1-6.1)	324	2.5 (1.3-4.8)	Insuff	icient data ²	
Asian, non-Hispanic	125	2.1 (0.9-4.5)	Insu	fficient data ²	0	0 (
Other, non-Hispanic	0	0 ()	0	0 ()	0	0 (
Age (years)				, <i>,</i> , ,		•	
<20	ไทรเ	ufficient data ²	Insu	fficient data ²	0	0 (
20-29	2,045	10 (6.4-15.2)	1,446	7.1 (4.1-11.9)	Insuff	icient data ²	
30-39	753	2.0 (1.1-3.9)	734	2.0 (1.0-4.0)	Insuff	icient data ²	
40+	ไทรเ	ufficient data ²	Insu	fficient data ²	Insuff	icient data ²	
Education							
<high school<="" td=""><td>409</td><td>8.6 (3.0-22.2)</td><td>Insu</td><td>fficient data²</td><td>Insuff</td><td>icient data²</td></high>	409	8.6 (3.0-22.2)	Insu	fficient data ²	Insuff	icient data ²	
High school diploma	1,030	10.6 (5.9-18.2)	786	8.0 (3.9-15.7)	Insuff	icient data ²	
Some college	1,265	9.8 (5.5-16.7)	1,027	7.9 (4.1-14.7)	Insuff	icient data ²	
College graduate	557	1.6 (0.8-3.3)	446	1.3 (0.5-3.1)	0	0 (
Insurance type						·	
Private	1,243	3.4 (1.8-6.1)	960	2.6 (1.3-5.3)	Insuff	icient data ²	
Medicaid	1,866	8.2 (5.3-12.4)	1,228	5.5 (3.2-9.1)	548	2.4 (1.1-5.3	
Other	ไทรเ	ufficient data ²	Insu	fficient data ²	0	0 (
Household poverty level							
≤100% FPL	652	5.6 (3.0-10.0)	362	3.1 (1.5-6.4)	Insuff	icient data ²	
>100% FPL	2,326	4.9 (3.2-7.5)	1,824	3.9 (2.4-6.2)	518	1.1 (0.5-2.5	
Nativity							
Non-US-born	172	0.8 (0.4-1.7)	198	0.9 (0.3-2.7)	Insuff	icient data ²	
US-born	3,089	7.5 (5.2-10.6)	2,244	5.4 (3.5-8.3)	634	1.5 (0.7-3.2	
Marital status						·	
Unmarried	2,552	13.2 (9.1-18.7)	1,793	9.4 (6.0-14.4)	649	3.4 (1.6-6.9	
Married	709	1.6 (0.7-3.5)	650	1.5 (0.6-3.4)	0	0 (
Disability status		, , ,		, <i>/</i>		, , , , , , , , , , , , , , , , , , ,	
No			2,216	4.0 (2.6-6.1)	548	1.0 (0.4-2.2	
Yes	331	5.2 (3.6-7.6) 4.9 (2.2-10.7)	Insu	fficient data ²	Insufficient data ²		

Table 40. Prevalence of e-smoking prior to pregnancy and during pregnancy, by sociodemographic characteristics, MA PRAMS, 2020

	E-cigaret	tes/vaping last 2 years³		ettes/vaping 3 prior pregnancy⁴		s/vaping last 3 f pregnancy⁵
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n¹	Percentage (95% Cl
Total	3,562	5.4 (3.9-7.5)	2,554	3.9 (2.6-5.7)	1,065	1.6 (0.8-3.2
Race/ethnicity						
White, non-Hispanic	2,516	6.4 (4.1-9.8)	1,732	4.4 (2.6-7.4)	973	2.5 (1.2-5.1
Black, non-Hispanic	300	4.6 (2.6-8.2)	180	2.8 (1.3-5.8)	0	0 (
Hispanic	585	4.4 (2.6-7.4)	482	3.6 (2.0-6.5)	Insuffic	ient data ²
Asian, non-Hispanic	125	2.5 (1.0-6.0)	125	2.5 (1.0-6.0)	Insuffic	ient data ²
Other, non-Hispanic	Insuf	ficient data ²	Insuf	ficient data ²	0	0 (
Age (years)						· · · · ·
<20	314	29.2 (13.1-53.1)	247	23 (8.4-49.3)	Insuffic	ient data ²
20-29	1,313	7.0 (4.2-11.5)	1,264	6.8 (4.0-11.2)	Insuffic	ient data ²
30-39	1,835	4.2 (2.6-6.8)	1,043	2.4 (1.2-4.5)	620	1.4 (0.6-3.6
40+		ficient data ²	0	0 ()	0	0 (
Education				· · · · ·		X
<high school<="" td=""><td>375</td><td>8.4 (3.1-20.7)</td><td>345</td><td>7.7 (2.6-20.4)</td><td>Insuffic</td><td>ient data²</td></high>	375	8.4 (3.1-20.7)	345	7.7 (2.6-20.4)	Insuffic	ient data ²
High school diploma	1,253	12.9 (7.5-21.4)	996	10.2 (5.5-18.2)	527	5.4 (2.2-12.9
Some college	995	7.7 (4.4-13.1)	833	6.5 (3.5-11.7)	Insuffic	ient data ²
College graduate	939	2.5 (1.2-5.0)	Insuf	ficient data ²		ient data ²
Insurance type		, , ,				
Private	1,158	2.9 (1.6-5.3)	661	1.7 (0.8-3.7)	Insuffic	ient data ²
Medicaid	2,202	9.7 (6.5-14.3)	1,655	7.3 (4.6-11.5)	758	3.3 (1.5-7.3
Other	Insuf	ficient data ²	Insuf	ficient data ²	0	0 (
Household poverty level						、
≤100% FPL	1,236	10.7 (6.2-17.9)	1,183	10.2 (5.8-17.4)	445	3.8 (1.4-10.0
>100% FPL	2,101	4.1 (2.7-6.2)	1,307	2.6 (1.5-4.3)	620	1.2 (0.5-3.1
Nativity		· /		, í		,
Non-US-born	233	1.1 (0.5-2.4)	204	1.0 (0.4-2.3)	Insuffic	ient data ²
US-born	3,329	7.4 (5.2-10.3)	2,350	5.2 (3.5-7.8)	1,028	2.3 (1.1-4.6
Marital status		, , ,		· · · · /		•
Unmarried	2,546	12.4 (8.3-17.9)	1,875	9.1 (5.7-14.1)	827	4.0 (1.8-8.7
Married	1,016	2.2 (1.3-3.8)	679	1.5 (0.8-2.8)	Insuffic	ient data ²
Disability status		· /		, í		
No	2,803	4.9 (3.3-7.1)	1,807	3.1 (1.9-5.0)	965	1.7 (0.8-3.4
Yes	658	8.7 (4.4-16.5)	646	8.4 (4.2-16.3)	Insuffic	ient data ²

Table 41. Prevalence of e-smoking prior to pregnancy and during pregnancy, by sociodemographic characteristics, MA PRAMS, 2021

characteristics, MA	PRAMS, 2						
			s/vaping las	st 2 years prior to pre			
		2019		2020	2021		
Characteristic	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	
Total	3,177	4.8 (3.6-6.5)	3,262	5.2 (3.7-7.3)	3,562	5.4 (3.9-7.5)	
Race/ethnicity							
White, non-Hispanic	2,345	6.0 (4.1-8.6)	2,436	6.7 (4.3-10.3)	2,516	6.4 (4.1-9.8)	
Black, non-Hispanic	203	3.2 (1.8-5.6)	234	3.7 (2.0-6.8)	300	4.6 (2.6-8.2)	
Hispanic	484	3.8 (2.3-6.3)	466	3.6 (2.1-6.1)	585	4.4 (2.6-7.4)	
Asian, non-Hispanic	127	2.2 (1.0-4.8)	125	2.1 (0.9-4.5)	125	2.5 (1.0-6.0)	
Other, non-Hispanic	Insuf	ficient data ²	0	0 ()	Insuff	icient data ²	
Age (years)							
<20	0	0 ()	Insuf	ficient data ²	314	29.2 (13.1-53.1)	
20-29	1,403	6.7 (4.5-9.9)	2,045	10 (6.4-15.2)	1,313	7.0 (4.2-11.5)	
30-39	1,680	4.2 (2.7-6.4)	753	2.0 (1.1-3.9)	1,835	4.2 (2.6-6.8)	
40+	Insuf	ficient data ²	Insuf	ficient data ²	Insuff	icient data ²	
Education							
<high school<="" td=""><td>Insuf</td><td>ficient data²</td><td>409</td><td>8.6 (3.0-22.2)</td><td>375</td><td>8.4 (3.1-20.7)</td></high>	Insuf	ficient data ²	409	8.6 (3.0-22.2)	375	8.4 (3.1-20.7)	
High school diploma	994	10.4 (6.4-16.6)	1,030	10.6 (5.9-18.2)	1,253	12.9 (7.5-21.4)	
Some college	1,293	8.3 (5.2-12.9)	1,265	9.8 (5.5-16.7)	995	7.7 (4.4-13.1)	
College graduate	771	2.3 (1.2-4.3)	557	1.6 (0.8-3.3)	939	2.5 (1.2-5.0)	
Insurance type		· · · · ·				, , , , , , , , , , , , , , , , , , ,	
Private	1,311	3.3 (2.1-5.3)	1,243	3.4 (1.8-6.1)	1,158	2.9 (1.6-5.3)	
Medicaid	1,695	7.4 (4.9-11.0)	1,866	8.2 (5.3-12.4)	2,202	9.7 (6.5-14.3)	
Other	0	0 ()	Insuf	ficient data ²	Insuff	icient data ²	
Household poverty level		· · · · ·					
≤100% FPL	870	6.7 (4.0-11.0)	652	5.6 (3.0-10.0)	1,236	10.7 (6.2-17.9)	
>100% FPL	2,294	4.6 (3.2-6.5)	2,326	4.9 (3.2-7.5)	2,101	4.1 (2.7-6.2)	
Nativity	, -		,		, -		
Non-US-born	242	1.3 (0.7-2.4)	172	0.8 (0.4-1.7)	233	1.1 (0.5-2.4)	
US-born	2,935	6.3 (4.6-8.6)	3,089	7.5 (5.2-10.6)	3,329	7.4 (5.2-10.3)	
Marital status	_,		-,		-,	(
Unmarried	2,033	9.7 (6.8-13.7)	2,552	13.2 (9.1-18.7)	2,546	12.4 (8.3-17.9)	
Married	1,144	2.6 (1.5-4.2)	709	1.6 (0.7-3.5)	1,016	2.2 (1.3-3.8)	
Disability status	.,				.,	()	
No	2,531	4.3 (3.1-6.0)	2,903	5.2 (3.6-7.6)	2,803	4.9 (3.3-7.1)	
Yes	646	9.7 (5.1-17.6)	331	4.9 (2.2-10.7)	658	8.7 (4.4-16.5)	
¹ n weighted to reflect birthing					000	0.1 (1.1 10.0)	

Table 42. Prevalence of e-smoking two years prior to pregnancy, by sociodemographic characteristics, MA PRAMS, 2019-2021

		E-cigare	ettes/vaping	3 months prior pre	gnancy		
	2	019		2020	2021		
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	
Total	1,704	2.6 (1.7-3.9)	2,442	3.9 (2.6-5.8)	2,554	3.9 (2.6-5.7)	
Race/ethnicity							
White, non-Hispanic	1,211	3.1 (1.8-5.3)	1,936	5.3 (3.2-8.6)	1,732	4.4 (2.6-7.4)	
Black, non-Hispanic	174	2.7 (1.4-5.0)	138	2.2 (1.0-4.8)	180	2.8 (1.3-5.8)	
Hispanic	251	2.0 (1.0-3.8)	324	2.5 (1.3-4.8)	482	3.6 (2.0-6.5)	
Asian, non-Hispanic	Insuffic	cient data ²	Insuffi	cient data ²	125	2.5 (1.0-6.0)	
Other, non-Hispanic	0	0 ()	0	0 ()	Insuffic	ient data ²	
Age (years)							
<20	0	0 ()	Insuffi	cient data ²	247	23 (8.4-49.3)	
20-29	625	3.0 (1.6-5.4)	1,446	7.1 (4.1-11.9)	1,264	6.8 (4-11.2)	
30-39	985	2.5 (1.4-4.3)	734	2.0 (1.0-4.0)	1,043	2.4 (1.2-4.5)	
40+	Insuffic	cient data ²	Insuffi	cient data ²	0	0 ()	
Education							
<high school<="" td=""><td>Insuffic</td><td>cient data²</td><td>Insuffi</td><td>cient data²</td><td>345</td><td>7.7 (2.6-20.4)</td></high>	Insuffic	cient data ²	Insuffi	cient data ²	345	7.7 (2.6-20.4)	
High school diploma	770	8.0 (4.4-14.2)	786	8.0 (3.9-15.7)	996	10.2 (5.5-18.2)	
Some college	752	4.8 (2.6-8.7)	1,027	7.9 (4.1-14.7)	833	6.5 (3.5-11.7)	
College graduate	Insuffic	cient data ²	446	1.3 (0.5-3.1)	Insuffic	ient data ²	
Insurance type							
Private	485	0.5 (0.1-1.6)	960	2.6 (1.3-5.3)	661	1.7 (0.8-3.7)	
Medicaid	1,116	0.5 (0.1-1.6)	1,228	5.5 (3.2-9.1)	1,655	7.3 (4.6-11.5)	
Other	0	0.5 (0.1-1.6)	Insuffi	cient data ²	Insuffic	ient data ²	
Household poverty level							
≤100% FPL	578	4.4 (2.3-8.3)	362	3.1 (1.5-6.4)	1,183	10.2 (5.8-17.4)	
>100% FPL	1,114	2.2 (1.3-3.7)	1,824	3.9 (2.4-6.2)	1,307	2.6 (1.5-4.3)	
Nativity							
Non-US-born	116	0.6 (0.3-1.5)	198	0.9 (0.3-2.7)	204	1.0 (0.4-2.3)	
US-born	1,588	3.4 (2.2-5.2)	2,244	5.4 (3.5-8.3)	2,350	5.2 (3.5-7.8)	
Marital status							
Unmarried	1,148	5.5 (3.4-8.6)	1,793	9.4 (6.0-14.4)	1,875	9.1 (5.7-14.1)	
Married	556	1.2 (0.6-2.7)	650	1.5 (0.6-3.4)	679	1.5 (0.8-2.8)	
Disability status		· /		· /		· · · ·	
No	1,359	2.3 (1.5-3.7)	2,216	4.0 (2.6-6.1)	1,807	3.1 (1.9-5.0)	
Yes	345	5.2 (2.4-11.2)		cient data ²	646	8.4 (4.2-16.3)	

Table 43 Prevalence of e-smoking three months prior to pregnancy, by sociodemographic

Table 44. Prevalence					nancy, by		
sociodemographic	cnaracteris						
				hree months of p			
	2	019	20	020	2021		
Characteristic	n ¹	Percentage (95% Cl)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	
Total	566	0.9 (0.4-1.8)	649	1.0 (0.5-2.2)	1,065	1.6 (0.8-3.2)	
Race/ethnicity							
White, non-Hispanic	424	1.1 (0.4-2.8)	603	1.7 (0.7-3.6)	973	2.5 (1.2-5.1)	
Black, non-Hispanic	Insuffic	eient data ²	Insuffici	ent data ²	0	0 ()	
Hispanic	Insuffic	eient data ²	Insuffici	ent data ²		ent data ²	
Asian, non-Hispanic	Insuffic	eint data ²	0	0 ()	Insufficie	ent data ²	
Other, non-Hispanic	0	0 ()	0	0 ()	0	0 ()	
Age (years)							
<20	0	0 ()	0	0 ()	Insufficie	ent data ²	
20-29	331	1.6 (0.6-4.2)	Insuffici	ent data ²	Insufficie	ent data ²	
30-39	235	0.6 (0.2-1.7)	Insuffici	ent data ²	620	1.4 (0.6-3.6)	
40+	0	0 ()	Insuffici	ent data ²	0	0 ()	
Education							
<high school<="" td=""><td>Insuffic</td><td>eint data²</td><td>Insuffici</td><td>ent data²</td><td>Insufficie</td><td>ent data²</td></high>	Insuffic	eint data ²	Insuffici	ent data ²	Insufficie	ent data ²	
High school diploma	Insuffic	eient data ²	Insufficient data ²		527	5.4 (2.2-12.9)	
Some college	321	2.0 (0.7-5.6)	Insufficient data ²		Insufficie	ent data ²	
College graduate	0	0 ()	0	0 ()		ent data ²	
Insurance type							
Private	Insuffic	eient data ²	Insuffici	ent data ²	Insufficie	ent data ²	
Medicaid	417	1.8 (0.8-4.2)	548	2.4 (1.1-5.3)	758	3.3 (1.5-7.3)	
Other	0	0 ()	0	0 ()	0	0 ()	
Household poverty							
level ≤100% FPL	lin o uffi o	ient data ²	lun av u ff i a i	ent data ²	445	2.0 /4.4.40)	
	490				445	3.8 (1.4-10)	
>100% FPL	490	1.0 (0.4-2.3)	518	1.1 (0.5-2.5)	620	1.2 (0.5-3.1)	
Nativity Non-US-born	loou ffi -	iont data ²	Incuffi-i	ont data ²	lpouffi-i	opt data?	
		tient data ²		ent data ²	1,028	ent data ²	
US-born	513	1.1 (0.5-2.4)	634	1.5 (0.7-3.2)	1,028	2.3 (1.1-4.6)	
Marital status	384		640	24(1000)	007	40/4007	
Unmarried		1.8 (0.8-4.4)	649	3.4 (1.6-6.9)	827	4.0 (1.8-8.7)	
Married	Insumo	eient data ²	0	0 ()	Insufficie	ent data ²	
Disability status	540	0.0 (0.4.0.0)	540		005	47(0001)	
No	516	0.9 (0.4-2.0)	548	1.0 (0.4-2.2)	965	1.7 (0.8-3.4)	
Yes ¹ n weighted to reflect birthing		ient data ²		ent data ²	Insufficie	ent data ²	

Table 44 Prevalence of e-smoking during last three months of pregnancy by

sociodemographic ch				nonths prior to preg	nanov	
		2019	n in unee i	2020	nancy	2021
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	42,704	65.0 (62.2-67.7)	40,641	64.4 (61.3-67.3)	43,004	65.2 (62.2-68.1)
Race/ethnicity						
White, non-Hispanic	30,334	77.2 (72.9-81.0)	28,625	79.1 (74.1-83.3)	31,126	79.7 (75.1-83.7)
Black, non-Hispanic	2,691	41.7 (36.1-47.4)	2,611	41.4 (35.9-47.2)	2,711	41.9 (36.2-47.8)
Hispanic	6,303	49.2 (44.3-54.1)	6,419	48.1 (42.9-53.4)	5,847	43.1 (38.0-48.5)
Asian, non-Hispanic	2,446	42.6 (37.2-48.1)	2,310	38.4 (33.0-44.1)	2,315	45.9 (39.7-52.3)
Other, non-Hispanic	331	52.7 (34.9-69.9)	169	41.4 (21.3-64.9)	125	41.3 (18.6-68.4)
Age (years)		· · · · · ·		· · ·		· · ·
<20	420	40.3 (22.6-61.0)	544	40.0 (20.9-62.7)	403	36.4 (19.4-57.7)
20-29	11,635	55.4 (50.3-60.4)	12,654	60.9 (55.1-66.4)	10,826	57.7 (51.8-63.4)
30-39	28,796	71.6 (68.1-74.9)	24,802	67.4 (63.3-71.2)	30,449	69.7 (65.9-73.3)
40+	1,854	53.4 (39.9-66.4)	2,641	63.4 (51.5-73.9)	1,326	54.4 (37.8-70.1)
Education	,	· · · · / ·	,	· · · · · · · · · · · · · · · · · · ·	,	, , , , , , , , , , , , , , , , , , ,
<high school<="" td=""><td>1,209</td><td>25.0 (17.7-33.9)</td><td>1,382</td><td>28.6 (20.2-38.8)</td><td>1,058</td><td>23.5 (15.3-34.1)</td></high>	1,209	25.0 (17.7-33.9)	1,382	28.6 (20.2-38.8)	1,058	23.5 (15.3-34.1)
High school diploma	4,617	48.2 (40.9-55.6)	4,840	50.5 (41.7-59.3)	4,297	45.2 (36.4-54.2)
Some college	9,783	62.3 (56.2-67.9)	7,578	57.9 (50.2-65.2)	8,321	63.9 (56.4-70.8)
College graduate	0	(-)	26,077	75.9 (72.2-79.3)	28,702	76.6 (72.8-80.0)
Insurance type			- , -		-, -	
Private	30,170	76.9 (73.4-80.1)	28,633	77.2 (73.6-80.5)	30,250	77.3 (73.5-80.6)
Medicaid	10,942	47.4 (42.7-52.1)	10.425	45.8 (40.4-51.3)	10,299	45.4 (39.8-51.0)
Other	989	56.2 (38.8-72.2)	712	55.4 (33.6-75.3)	1,163	59.9 (39.9-77.0)
Household poverty level		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	,	, , , , , , , , , , , , , , , , , , ,
≤100% FPL	5,583	42.6 (36.6-48.7)	4,870	42.1 (34.9-49.7)	4,727	40.5 (33.1-48.3)
>100% FPL	36,434	73.0 (69.8-76.0)	34,129	72.4 (68.9-75.6)	37,217	73.1 (69.7-76.3)
Nativity	,	· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	,	, , , , , , , , , , , , , , , , , , ,
Non-US-born	7,309	38.6 (34.3-43.0)	8,303	38.0 (33.6-42.6)	7,356	35.0 (30.7-39.7)
US-born	35,394	75.7 (72.1-79.0)	32,337	78.3 (74.3-81.9)	35,648	79.3 (75.5-82.6)
Marital status	,	· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	,	, , , , , , , , , , , , , , , , , , ,
Unmarried	12,256	58.0 (52.9-62.9)	11,720	60.6 (54.5-66.3)	12,407	59.6 (53.6-65.4)
Married	30,447	68.3 (64.9-71.5)	28,920	66.0 (62.4-69.5)	30,597	67.8 (64.1-71.2)
WIC participation	,	- (- , - -		, - > -	1
No	33,696	75.1 (71.8-78.2)	30,983	73.0 (69.4-76.3)	34,029	72.8 (69.1-76.3)
Yes	8,764	42.8 (38.1-47.7)	9,606	46.7 (41.1-52.4)	8,920	46.8 (40.9-52.7)
Disability status	· ·	· · · · /	, -	,/	, -	<u>/</u>
No	38,591	66.0 (63.1-68.9)	36,234	65.2 (61.9-68.3)	38,004	66.0 (62.6-69.1)
Yes	3,802	55.9 (46.6-64.8)	4,171	61.7 (51.2-71.3)	4,829	63.9 (54.9-71.9)
¹ n weighted to reflect birthing po				· · · · · / ·		· · · · · · · · · · · · · · · · · · ·

Table 45. Prevalence of drinking alcohol in the three months prior to pregnancy by sociodemographic characteristics, MA PRAMS, 2019-2021

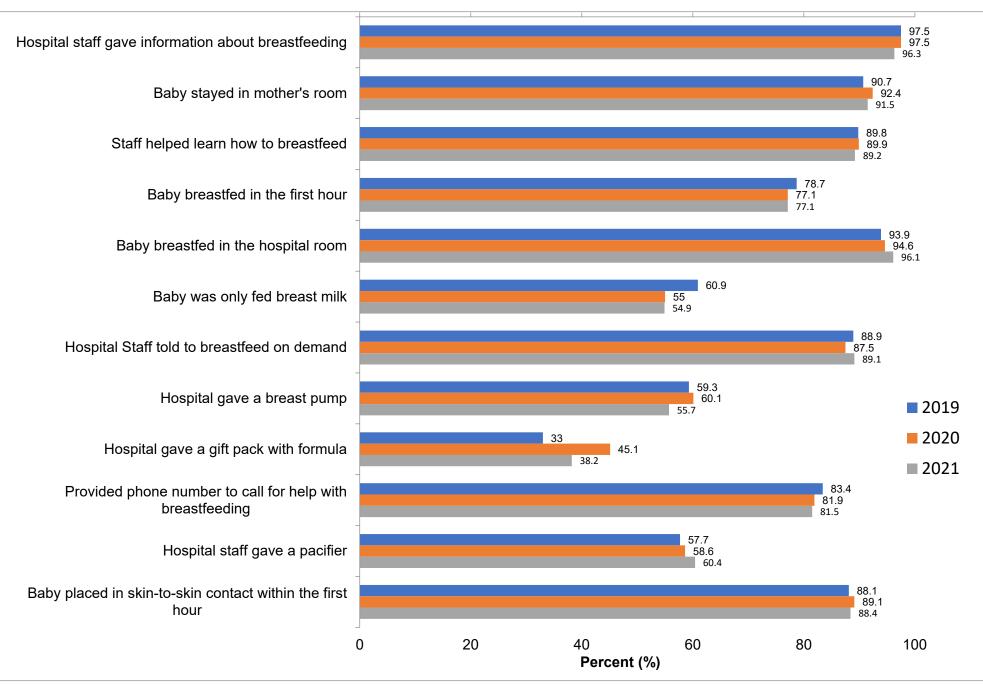
Table 46. Prescription Pain Medication Use and Other Substance Use During Pregnancy Opioid Supplement 2019-2021

Opioid Supplement 2019-2021						
		2019		2020		2021
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Did person use any of these over- the-counter pain relievers during pregnancy?	49,059	74.9 (72.1-77.5)	44,830	71.6 (68.5-74.6)	49,037	75.2 (72.1-78.1)
Acetaminophen	45,243	69.2 (66.3-72.0)	41,227	66.0 (62.7-69.2)	44,683	70.1 (66.8-73.1)
Ibuprofen	10,061	15.7 (13.6-18.0)	9,313	15.2 (12.8-17.9)	9,264	14.8 (12.6-17.3)
Aspirin	4,930	7.7 (6.2-9.6)	5,755	9.5 (7.7-11.5)	7,590	12.0 (10.0-14.5)
Naproxen	991	1.6 (1.0-2.5)	1,730	2.9 (1.7-4.7)	667	1.1 (0.6-1.8)
Did person use these prescription pain relievers during pregnancy?	7,798	6.1 (5.1-7.3)	3,698	6.0 (4.5-7.9)	Insi	ufficient data ²
Hydrocodone	298	0.5 (0.2-1.0)	426	0.7 (0.3-1.3)	227	0.4 (0.2-0.7)
Codeine	1,664	2.5 (1.9-3.3)	1,886	3.0 (2.1-4.3)	1,627	2.6 (1.8-3.7)
Oxycodone	1,605	2.5 (1.8-3.4)	1,380	2.2 (1.4-3.5)	1,776	2.8 (1.8-4.3)
Tramadol	278	0.4 (0.2-1.1)	283	0.5 (0.2-1.0)	141	0.2 (0.1-0.6)
Hydromorphone	378	0.6 (0.2-1.4)	286	0.5 (0.2-1.3)	569	0.9 (0.4-1.9)
Oxymorphone	118	0.2 (0.1-0.4)		sufficient data ²		ufficient data ²
Morphine	582	0.9 (0.5-1.7)	518	0.8 (0.4-1.5)	655	1.0 (0.5-2.1)
Fentanyl	387	0.6 (0.2-1.4)	613	1.0 (0.4-2.5)	552	0.9 (0.4-2.0)
From where did person obtain the prescription pain relievers during						
pregnancy? OB-GYN, midwife, prenatal care provider	2,473	60.3 (48.2-71.3)	2,101	56.8 (41.6-70.8)	2,112	54.5 (40.5-67.8)
Family doctor, Primary care doctor	663	16.2 (9.8-25.4)	595	16.1 (7.5-31.2)	479	12.4 (5.8-24.3)
Dentist/ Oral Health care provider	175	4.3 (1.8-9.7)		sufficient data ²		ufficient data ²
Emergency Department visit	1,209	29.5 (20.1-41.0)	706	19.1 (10.5-32.3)	904	23.3 (13.7-36.9)
Left over from older prescription	297	7.2 (3.0-16.5)		sufficient data ²		ufficient data ²
Friend/Family member		ufficient data ²		sufficient data ²	0	0 ()
Gotten without a prescription	407	9.9 (4.2-21.6)	673	18.2 (7.7-37.3)	430	11.1 (4.0-27.4)
What were the reasons for using prescription pain relievers during pregnancy? To relieve pain from condition that	908	22.2 (13.4-34.3)	557	15.0 (6.9-29.7)	650	16.8 (8.2-31.3)
started before pregnancy To relieve pain from condition that	1,909	46.6 (35.5-57.9)	1,664	. ,		. ,
started during pregnancy	1,909	40.0 (33.3-37.9)		45.0 (31.4-59.4)	2,052	53 (39.4-66.1)
To relax or relieve tension or stress	536	13.1 (6.7-23.9)	427	11.5 (4.2-28.0)	385	9.9 (4.0-22.5)
To help with feelings or emotions	402	9.8 (4.1-21.5)		sufficient data ²		ufficient data ²
To help sleep	685	16.7 (9.6-27.4)	539	14.6 (5.4-33.7)	343	8.9 (3.3-21.7)
To feel good or get high	364	8.9 (3.5-20.8)	Ins	sufficient data ²	412	10.6 (0.0-21.7)
Because I was "hooked" or had to have them	357	8.7 (3.3-20.8)	Ins	sufficient data ²	Inst	ufficient data ²
Did pregnant person want or need to cut down or stop during pregnancy?						
No	2,752	70.9 (58.6-80.7)	2,411	68 (50.6-81.5)	3,137	82.9 (68.4-91.6)
Yes	1,129	29.1 (19.3-41.4)	1,136	32 (18.5-49.4)	646	17.1 (8.4-31.6)
Did pregnant person have trouble cutting down or stopping during pregnancy?						
No	814	70.5 (43.8-88.0)	449	39.5 (16.3-68.6)	374	54.8 (22.2-83.7)
Yes	340	29.5 (12.0-56.1)	687	60.5 (31.4-83.7)	309	45.2 (16.3-77.8)
Did pregnant person get help to cut down or stop during pregnancy?						
No	631	55.8 (32.8-76.6)	363	31.1 (12.9-57.9)	456	61.8 (27.8-87.2)
Yes	499	44.2 (23.4-67.2)	804	68.9 (42.1-87.1)	281	38.2 (12.8-72.2)
Of pregnant people who said they received help to cut down or stop, did they receive medication- assisted treatment?						

Opioid Supplement 2019-2021 Characteristic No	n ¹	2019 Percentage					
		Dereentere		2020	2021		
No	(95% Cl) n [·]		n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	
	166	34.2 (11.8-66.9)	285	35.4 (8.4-76.7)	Insu	ifficient data ²	
Yes	320	65.8 (33.1-88.2)	Ins	sufficient data ²	Insu	ifficient data ²	
Did pregnant person think							
prescription pain relievers during							
pregnancy can be harmful to the baby?							
Not harmful at all	2,622	4.2 (3.4-5.3)	2,551	4.3 (3.4-5.5)	1,300	2.1 (1.6-2.9)	
Not harmful if taken as prescribed	18,841	30.4 (27.7-33.3)	20,925	35.5 (32.3-38.9)	25,117	41.1 (37.7-44.5)	
Harmful, even if taken as prescribed	40,458	65.3 (62.4-68.1)	35,446	60.2 (56.8-63.5)	34,739	56.8 (53.3-60.2)	
Did pregnant person think							
prescription pain relievers during							
pregnancy can be harmful to the pregnant person?							
Not harmful at all	3,157	5.1 (4.1-6.3)	2,676	4.5 (3.6-5.8)	2,092	3.4 (2.6-4.5)	
Not harmful if taken as prescribed	32,270	51.7 (48.5-55.0)	33,065	56.1 (52.5-59.7)	37,352	60.8 (57.3-64.3)	
Harmful, even if taken as prescribed	26,933	43.2 (40.0-46.4)	23,155	39.3 (35.8-42.9)	21,940	35.7 (32.3-39.3)	
Did health care professional talk about how prescription pain relievers affect pregnancy?							
No	34,208	55.5 (52.3-58.7)	34,881	59.7 (56.2-63.1)	38,790	63.1 (59.8-66.3)	
Yes	27,699	44.4 (41.3-47.6)	23,874	40.3 (36.9-43.7)	22,687	36.9 (33.7-40.2)	
During pregnancy, what medication were used?							
Medication for depression	5,354	8.2 (6.5-10.4)	5,533	8.9 (6.9-11.4)	6,164	9.7 (7.6-12.3)	
Medication for anxiety	1,844	2.8 (1.8-4.4)	1,842	3.0 (1.8-4.7)	1,222	1.9 (1.1-3.3)	
Methadone/Subutex, suboxone, buprenorphine	1,240	1.9 (1.1-3.3)	1,062	1.7 (0.8-3.5)	1,540	2.4 (1.4-4.3)	
Naloxone	335	0.5 (0.2-1.5)	0	0 ()	Insu	ifficient data ²	
Cannabidiol (CBD) products	1,182	1.8 (1.1-3.1)	1,063	1.7 (0.9-3.3)	745	1.2 (0.5-2.6)	
Adderall, Ritalin or other stimulant	869	1.3 (0.7-2.4)	1,163	1.9 (0.9-3.7)	879	1.4 (0.7-2.8)	
Marijuana or hash	2,679	4.1 (2.9-5.8)	1,438	2.3 (1.4-3.8)	2,425	3.8 (2.5-5.7)	
synthetic marijuana K2, Spice		ufficient data ²		sufficient data ²		ifficient data ²	
Heroin	400	0.6 (0.2-1.6)		sufficient data ²		ifficient data ²	
Amphetamines		ufficient data ²		sufficient data ²		ifficient data ²	
Cocaine	281	0.4 (0.1-1.3)		sufficient data ²	Insufficient data ²		
Tranquilizers		ufficient data ²		sufficient data ²	Insufficient data ²		
Hallucinogens	Ins	ufficient data ²	Ins	sufficient data ²	Insufficient data ²		
Sniffing gasoline, glue, aerosol spray cans/paint ¹ n weighted to reflect birthing population; ² In		ufficient data ²	Ins	sufficient data ²	Insufficient data ²		

Table 47. Prevale	nce of br			d duration of at le	east 8 w	eeks by sociode	mograph	ic characteristic	s, MA PF			
		20	019			20	20			202		
	Breastf	eeding initiation		feeding duration t least 8 weeks	Breast	eeding initiation		eeding duration least 8 weeks	Breast	feeding initiation		feeding duration t least 8 weeks
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	59,798	91.6 (89.6-93.3)	47,961	73.8 (71.0-76.5)	56,851	91.0 (88.6-93.0)	46,246	74.2 (71.0-77.3)	59,515	91.3 (89.0-93.2)	47,458	73.1 (69.8-76.2)
Race/ethnicity		· · · · ·		x x x		, , ,						, , ,
White, non-Hispanic	35,605	90.7 (87.5-93.1)	29,198	74.6 (70.2-78.5)	32,567	89.7 (85.7-92.7)	26,443	73.1 (67.8-77.8)	34,767	89.9 (86.1-92.8)	28,251	73.3 (68.1-77.8)
Black, non-Hispanic	5,952	94.3 (91.2-96.3)	5,153	82.3 (77.9-86.1)	5,674	93.5 (90.5-95.6)	5,044	83.1 (78.7-86.8)	5,844	92.8 (88.6-95.5)	4,767	76.5 (70.9-81.3)
Hispanic	11,743	93.3 (90.5-95.4)	8,027	64.5 (59.6-69.2)	11,877	91.4 (87.6-94.1)	8,744	67.3 (62.0-72.2)	12,372	92.3 (88.9-94.7)	8,979	66.8 (61.5-71.7)
Asian, non-Hispanic	5,387	94.2 (90.7-96.5)	4,817	84.7 (80.0-88.5)	5,643	94.7 (90.9-96.9)	5,036	85.0 (80.0-88.9)	4,718	95.3 (91.3-97.5)	4,092	82.7 (76.9-87.2)
Other, non-Hispanic	585	93.2 (76.8-98.3)	466	74.4 (55.5-87.1)	352	94.2 (69.1-99.2)	243	65.0 (40.0-83.8)	268	88.3 (50.4-98.3)	143	47.2 (22.6-73.3)
Age (years)						· · · · · ·						
<20	971	93.3 (80.3-97.9)	541	52.0 (32.6-70.8)	1,271	91.6 (65.2-98.4)	633	47.9 (27.5-69.1)	904	84.0 (66.7-93.2)	468	44.7 (27.1-63.8)
20-29	18,827	90.5 (86.9-93.3)	13,859	67.5 (62.4-72.1)	18,251	90.7 (86.0-94.0)	14,119	70.0 (63.7-75.6)	16,617	88.9 (83.8-92.6)	11,487	61.4 (54.9-67.4)
30-39	36,755	91.9 (89.2-94.0)	30,843	77.2 (73.5-80.6)	33,592	91.3 (88.0-93.7)	28,518	77.8 (73.6-81.5)	39,790	92.6 (89.8-94.7)	33,698	78.9 (74.8-82.4)
40+	3,245	93.8 (84.6-97.6)	2,717	79.3 (65.9-88.3)	3,738	90.4 (78.8-96.0)	2,977	72.0 (58.4-82.5)	2,203	90.4 (72.9-97.0)	1,804	74.5 (56.2-86.9)
Education	- , -		,	(-,		,-	- (/	,		,	
<hiah school<="" td=""><td>4.198</td><td>91.9 (84.0-96.0)</td><td>2,946</td><td>65.2 (56.0-73.3)</td><td>3,927</td><td>86.7 (78.0-92.3)</td><td>2.670</td><td>58.0 (47.9-67.5)</td><td>3,856</td><td>86.8 (76.7-93.0)</td><td>2,887</td><td>65.0 (54.9-74.0)</td></hiah>	4.198	91.9 (84.0-96.0)	2,946	65.2 (56.0-73.3)	3,927	86.7 (78.0-92.3)	2.670	58.0 (47.9-67.5)	3,856	86.8 (76.7-93.0)	2,887	65.0 (54.9-74.0)
High school diploma	7,822	82.7 (75.6-88.0)	5,614	60.6 (53.2-67.6)	7,575	79.3 (69.7-86.5)	5,250	55.4 (46.1-64.3)	8,266	87.1 (78.9-92.4)	5,050	53.2 (44.1-62.1)
Some college	14,058	89.6 (85.1-92.8)	10,075	64.4 (58.0-70.2)	11,544	90.2 (83.9-94.1)	8,230	64.8 (56.7-72.2)	11,516	89.2 (82.6-93.5)	8,157	63.3 (55.1-70.8)
College graduate	32,143	95.2 (92.5-97.0)	28,094	83.3 (79.4-86.6)	32,727	95.1 (92.5-96.9)	29,088	84.7 (80.7-88.0)	34,600	93.6 (90.7-95.6)	30,366	82.7 (78.6-86.1)
Insurance type			,		,	· · · · ·			,		, í	
Private	36,733	93.4 (90.7-95.4)	31,257	79.7 (75.8-83.0)	34,553	93.0 (89.9-95.1)	29,666	79.9 (75.7-83.5)	35.585	91.6 (88.3-94.0)	30,452	78.9 (74.6-82.6)
Medicaid	19,942	88.4 (84.8-91.2)	14,389	64.4 (59.7-68.8)	19,613	87.9 (83.1-91.5)	14,304	64.4 (58.7-69.7)	20,306	90.8 (86.7-93.7)	13,915	62.1 (56.4-67.6)
Other	1,589	90.3 (69.2-97.5)	1,215	69.0 (50.0-83.2)	1,162	91.6 (74.9-97.6)	943	75.6 (53.0-89.5)	1,924	99.1 (93.8-99.9)	1,757	90.5 (77.2-96.4)
Household poverty level	,		, ,									
≤100% FPL	10.935	85.1 (79.7-89.3)	7.297	57.8 (51.5-63.8)	9.689	84.4 (77.6-89.4)	7.300	64.1 (56.5-71.0)	10.118	89.1 (82.8-93.3)	6.765	59.8 (52.0-67.2)
>100% FPL	46,289	92.9 (90.6-94.7)	38,787	77.9 (74.7-80.9)	43,564	92.9 (90.2-94.9)	36,364	77.6 (73.8-81.0)	46,648	92.1 (89.4-94.2)	38,972	77.3 (73.5-80.6)
Nativity	-,	- (/	, -	- (/	- ,				-,		/ -	
Non-US-born	17,969	96.0 (93.9-97.4)	15,085	81.3 (77.7-84.5)	20,127	94.8 (92.6-96.3)	17,204	80.9 (76.8-84.5)	19,493	93.5 (90.8-95.5)	15,978	77.4 (73.2-81.1)
US-born	41,829	89.9 (87.2-92.1)	32,876	70.9 (67.1-74.4)	36,724	89.1 (85.6-91.9)	29,043	70.8 (66.3-74.9)	40,022	90.3 (87.0-92.8)	31,479	71.1 (66.6-75.2)
Marital status	,		,						,			
Unmarried	18,376	88.7 (84.8-91.7)	12,588	61.3 (56.1-66.3)	16,732	88.3 (82.8-92.2)	11,245	59.9 (53.4-66.0)	17,796	88.4 (83.2-92.1)	11,764	58.6 (51.9-65.0)
Married	41,422	93.0 (90.5-94.8)	35,373	79.6 (76.2-82.6)	40,120	92.2 (89.6-94.3)	35,002	80.5 (76.8-83.7)	41,719	92.7 (90.0-94.6)	35,693	79.6 (76.0-82.8)
WIC participation	,		00,010		,		00,002		,			
No	41,845	93.4 (91.0-95.3)	34,791	77.9 (74.4-81.1)	38,510	91.5 (88.4-93.8)	33,209	79.1 (75.1-82.5)	42,365	91.7 (88.8-93.8)	35,980	78.1 (74.2-81.6)
Yes	17.586	87.4 (83.5-90.5)	12,819	64.3 (59.4-68.9)	18,270	90.2 (85.9-93.3)	12,965	64.3 (58.4-69.9)	17,014	90.5 (85.9-93.6)	11.407	60.8 (54.7-66.6)
Disability status	,		,				,	(,		,	
No	53,635	92.1 (89.9-93.8)	43,591	75.2 (72.2-78.0)	50,396	91.3 (88.8-93.3)	41,461	75.3 (71.8-78.5)	51,929	91.2 (88.6-93.2)	42,288	74.6 (71.0-77.8)
Yes	5,797	87.5 (79.6-92.6)	4,141	63.0 (53.3-71.8)	5,982	88.5 (76.8-94.8)	4,658	69.2 (57.6-78.8)	7,122	94.0 88.0-97.1)	4,934	65.2 (54.9-74.3)
¹ n weighted to reflect birt	,		.,	00.0 (00.0 1 1.0)	0,002		1,000	00.2 (01.0 10.0)	·,· <u>-</u> 2	01.000.001.17	1,004	00.2 (01.014.0)

Figure 16. Hospital Breastfeeding Practices, MA PRAMS 2019-2021



	Su	pine sleep³	Separa	te sleep surface⁴	No b	ed-sharing⁵		oft objects/ se bedding ⁶
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	56,738	87.5 (85.7-89.1)	23,631	37.3 (34.2-40.5)	43,806	67.8 (64.7-70.7)	37,523	59.4 (56.4-62.4)
Race/ethnicity								
White, non-Hispanic	36,970	94.6 (91.9-96.5)	16,287	42.1 (37.4-46.9)	26,316	67.6 (62.9-72.0)	27,053	70.3 (65.7-74.6)
Black, non-Hispanic	4,384	71.0 (65.1-76.3)	1,713	29.1 (24.3-34.3)	4,092	66.6 (60.6-72.1)	2,680	45.3 (39.6-51.2
Hispanic	9,185	73.0 (68.4-77.1)	3,792	31.2 (26.7-36.0)	9,023	72.0 (67.3-76.3)	4,910	40.3 (35.5-45.4)
Asian, non-Hispanic	4,926	88.0 (83.6-91.3)	1,559	29.4 (24.4-34.9)	3,508	62.2 (56.6-67.4)	2,196	41.9 (36.3-47.7)
Other, non-Hispanic	525	83.7 (66.3-93.1)	Insi	ufficient data ²	381	63.4 (44.4-78.9)	161	27.5 (13.9-47.2)
Age (years)		x <i>i i i</i>				· · · ·		, , , , , , , , , , , , , , , , , , ,
<20	461	44.3 (26.3-63.8)	177	17.0 (6.9-36.2)	535	51.4 (31.9-70.5)	384	36.9 (20.6-57.0)
20-29	17,087	83.1 (79.4-86.3)	6,368	31.5 (26.8-36.7)	14,038	68.0 (62.9-72.7)	9,096	45.0 (39.8-50.4)
30-39	36,294	91.1 (88.9-92.9)	15,469	39.9 (35.8-44.2)	26,687	67.5 (63.4-71.4)	25,737	66.9 (63.0-70.6)
40+	2,896	84.5 (74.4-91.2)	1,617	47.5 (34.0-61.3)	2,547	74.1 (61.1-83.9)	2,306	68.0 (55.0-78.7)
Education				\$ <i>i i</i>				
<high school<="" td=""><td>3,178</td><td>70.4 (60.9-78.4)</td><td>799</td><td>18.1 (12.4-25.6)</td><td>3,368</td><td>73.8 (64.1-81.6)</td><td>1,270</td><td>29.9 (22.4-38.5)</td></high>	3,178	70.4 (60.9-78.4)	799	18.1 (12.4-25.6)	3,368	73.8 (64.1-81.6)	1,270	29.9 (22.4-38.5)
High school diploma	7,424	80.5 (74.9-85.0)	2,389	26.4 (20.5-33.3)	6,652	71.8 (64.5-78.0)	3,846	41.8 (34.4-49.5)
Some college	13,130	83.9 (79.6-85.0)	4,898	32.3 (26.7-38.4)	10,359	66.9 (60.6-72.6)	6,776	45.1 (38.8-51.5)
College graduate	31,422	93.3 (90.9-95.1)	15,058	45.7 (41.0-50.4)	22,285	66.5 (62.0-70.7)	24,656	75.0 (71.0-78.6)
Insurance type		x <i>i i i</i>		\$ <i>i i</i>				, , , , , , , , , , , , , , , , , , ,
Private	36333	92.8 (90.5-94.5)	35,800	93.4 (90.8-95.3)	25,587	65.7 (61.5-69.7)	27385	71.5 (67.6-75.2)
Medicaid	18112	81.1 (77.6-84.1)	16,523	74.6 (70.1-78.7)	15,959	71.5 (67.0-75.6)	8564	39.6 (34.9-44.5)
Other	1261	72.7 (53.3-86.2)	1,319	67.9 (46.1-84.0)	1,212	69.9 (50.8-83.9)	821	51.2 (33.5-68.7)
Household poverty level		x <i>i i i</i>		, <i>, , , , , , , , , , , , , , , , , , </i>		· · · ·		, , , , , , , , , , , , , , , , , , ,
≤100% FPL	9,687	76.6 (71.4-81.1)	3,380	27.9 (22.6-33.8)	8,812	69.7 (63.5-75.2)	4,378	36.7 (30.9-42.9)
>100% FPL	45,344	91.4 (89.5-93.1)	19,738	40.4 (36.8-44.2)	33,179	67.2 (63.5-70.6)	32,331	66.3 (62.8-69.7)
Nativity		x <i>i i</i>		, <i>, , , , , , , , , , , , , , , , , , </i>				`
Non-US-born	14,488	78.3 (74.6-81.5)	5,519	31.6 (27.5-36.1)	12,938	69.8 (65.6-73.8)	7,993	45.7 (41.2-50.3)
US-born	42,226	91.2 (89.0-93.0)	18,112	39.5 (35.6-43.5)	30,869	67.0 (63.0-70.7)	29,531	64.7 (60.9-68.4)
Marital status								
Unmarried	16,450	80.1 (76.0-83.5)	6,268	31.2 (26.4-36.5)	14,542	70.8 (65.8-75.3)	8,176	40.9 (35.7-46.3)
Married	40,288	91.0 (88.9-92.7)	17,363	40.1 (36.3-44.1)	29,264	66.4 (62.5-70.0)	29,347	68.0 (64.4-71.4)
WIC participation		, , ,		, , ,		· · · · ·		
No	40831	91.7 (89.4-93.4)	18,175	41.5 (37.5-45.5)	29,478	66.5 (62.6-70.2)	30,174	69.1 (65.4-72.5)
Yes	15595	78.3 (74.4-81.6)	5,300	27.5 (23.3-32.2)	14,238	71.4 (66.7-75.7)	7,099	37.2 (32.6-42.1)
Disability status		, , ,		, , ,		· · · · ·		
No	51,333	88.5 (86.7-90.2)	22,023	38.8 (35.5-42.2)	39,193	67.9 (64.7-71.0)	34,347	60.9 (57.7-64.0)
Yes	5,135	79.2 (71.0-85.5)	1,472	23.4 (16.4-32.2)	4,278	65.6 (56.1-74.1)	2,924	46.3 (36.8-56.0

approved sleep surface (crib, bassinet, or pack and play); ⁵No bed-sharing: infant room-sharing without bed-sharing; ⁶No soft objects/loose bedding: infant sleeps without soft objects or loose bedding such as blankets, toys, or crib bumper pads

Characteristic	Supine sleep ³		Separate sleep surface ⁴		No bed-sharing⁵		No soft objects/ loose bedding ⁶	
	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	52,971	85.5 (83.4-87.4)	24,200	40.4 (37.0-44.0)	41,774	68.0 (64.7-71.2)	37,551	62.8 (59.5 -66.1
Race/ethnicity								·
White, non-Hispanic	33,834	94.0 (90.6-96.2)	15,929	45.0 (39.6-50.5)	23,918	67.0 (61.7-71.9)	26,131	73.8 (68.5-78.5
Black, non-Hispanic	4,094	67.9 (62.4-73.0)	1,860	33.0 (27.4-39.1)	3,826	63.8 (58.2-69.1)	2,599	47.1 (41.0-53.3
Hispanic	9,382	72.8 (67.7-77.3)	3,968	32.4 (27.5-37.7)	9,765	76.4 (71.6-80.7)	5,570	45.2 (39.9-50.7
Asian, non-Hispanic	4,896	82.6 (77.5-86.8)	1,808	32.9 (27.7-38.6)	3,562	61.3 (55.5-66.8)	2,536	46.9 (41.0-52.9
Other, non-Hispanic	229	61.4 (36.2-81.7)	127	37.7 (16.6-64.7)	273	76.3 (47.0-92.1)	208	55.6 (31.4-77.3
Age (years)				· · · · ·		· · · · · · · · · · · · · · · · · · ·		*
<20	928	68.7 (47.7-84.1)	357	26.3 (11.8-48.8)	1,005	74.9 (53.4-88.6)	490	36.1 (18.8-58.0)
20-29	15,307	76.6 (71.4-81.1)	7,047	36.8 (30.7-43.4)	14,519	73.6 (67.9-78.6)	10,070	52.6 (46.2-59.0)
30-39	33,130	90.8 (88.6-92.6)	15,388	43.3 (38.8-47.9)	23,404	64.6 (60.1-68.9)	25,245	71.2 (67.1-74.9
40+	3,606	87.6 (79.3-92.8)	1,408	36.9 (25.2-50.4)	2,846	69.5 (56.4-80.0)	1,746	46.0 (33.2-59.3
Education							·	,
<high school<="" td=""><td>3,064</td><td>67.0 (57.6-75.2)</td><td>1,197</td><td>28.3 (19.9-38.6)</td><td>3,288</td><td>74.0 (64.4-81.7)</td><td>1,817</td><td>41.7 (32.2-51.9</td></high>	3,064	67.0 (57.6-75.2)	1,197	28.3 (19.9-38.6)	3,288	74.0 (64.4-81.7)	1,817	41.7 (32.2-51.9
High school diploma	6,381	68.9 (60.3-76.3)	2,544	27.8 (20.3-36.8)	6,489	70.3 (61.3-78.0)	3,264	36.8 (28.2-46.3
Some college	10,293	81.4 (75.5-86.2)	4,451	35.8 (28.3-44.2)	9,529	75.2 (68.3-81.1)	6,921	55.7 (47.8-63.3
College graduate	32,437	94.6 (92.8-95.9)	15,423	46.7 (41.9-51.6)	21,606	63.7 (59.0-68.1)	24,957	75.5 (71.4-79.1
Insurance type				· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	,	Υ
Private	34,959	94.1 (92.0-95.7)	17,587	49.0 (44.3-53.7)	23,755	65.2 (60.6-69.5)	26,740	74.5 (70.4-78.2
Medicaid	16,026	72.6 (67.8-76.9)	6,084	28.6 (23.8-34.1)	16,203	73.4 (68.5-77.8)	10,043	47.7 (42.0-53.5
Other	664	62.0 (41.1-79.3)	220	18.8 (6.6-43.2)	787	62.1 (37.1-81.9)	425	35.9 (17.3-60.0
Household poverty level	1			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		Υ
≤100% FPL	8,581	76.6 (70.6-81.6)	2,839	25.8 (19.8-32.9)	7,762	.0	4,947	45.4 (37.7-53.3
>100% FPL	41,320	88.4 (85.9-90.5)	20,279	44.8 (40.7-49.0)	30,818	66.4 (62.4-70.1)	31,111	68.8 (65.0-72.4
Nativity	1 / 1			- (/	,		- ,	
Non-US-born	15,961	75.4 (71.4-79.0)	6,091	30.7 (26.6-35.2)	14,790	70.5 (66.1-74.6)	9,906	49.9 (45.0-54.8
US-born	37,010	90.8 (88.0-92.9)	18,109	45.2 (40.5-50.0)	26,984	66.8 (62.2-71.0)	27,645	69.3 (64.8-73.4
Marital status			-,		- ,		,	
Unmarried	13,511	73.0 (67.4-78.0)	5,878	32.2 (26.3-73.7)	13,045	70.4 (64.4-75.8)	9,240	51.2 (44.7-57.6
Married	39,460	90.8 (88.9-92.4)	18,321	44.0 (39.8-60.2)	28,729	67.0 (63.0-70.8)	28,311	67.9 (63.9-71.6
WIC participation			- / -		-, -		- , -	
No	38,224	91.5 (89.3-93.4)	18,689	46.3 (41.9-50.8)	27,144	65.8 (61.5-69.8)	28,710	71.1 (67.1-74.8
Yes	14,638	73.0 (68.0-77.4)	5,469	28.1 (23.0-34.0)	14,589	72.9 (67.5-77.6)	8,790	45.6 (39.6-51.7
Disability status	,		-,	()	,		-,	
No	47,892	86.9 (84.7-88.8)	22,299	42.0 (38.3-45.8)	37,040	68.2 (64.7-71.5)	33,703	63.6 (60.0-67.0
Yes	4,883	75.8 (66.3-83.4)	1,821	28.4 (19.4-39.5)	4,539	68.0 (56.7-77.6)	3,682	57.5 (46.2-68.1
¹ n weighted to reflect birthing po								

Characteristic	Supine sleep ³		Separate sleep surface ⁴		No bed-sharing⁵		No soft objects/ loose bedding ⁶	
	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	55,206	85.7 (83.5-87.7)	26,382	42.3 (38.8-45.9)	44,792	69.7 (66.4-72.9)	42,024	67.8 (64.6-70.8)
Race/ethnicity		· · · · · ·				``````````````````````````````````````		, , ,
White, non-Hispanic	35,892	93.9 (90.7-96.0)	18,099	48.2 (42.8-53.6)	26,704	69.7 (64.6-74.3)	29,476	78.9 (73.9-83.0)
Black, non-Hispanic	4,371	72.5 (66.7-77.6)	1,837	31.3 (26.1-37.0)	4,215	69.4 (63.6-74.6)	2,899	49.9 (43.9-55.9)
Hispanic	9,358	69.7 (64.5-74.3)	4,181	33.3 (28.3-38.7)	9,670	73.7 (68.6-78.2)	6,099	48.7 (43.2-54.2)
Asian, non-Hispanic	4,254	87.2 (81.6-91.3)	1,544	33.2 (27.4-39.6)	3,139	63.9 (57.5-69.8)	2,495	54.1 (47.5-60.6)
Other, non-Hispanic	215	80.1 (45.7-95.1)	108	54.7 (25.1-81.3)	161	60.1 (30.6-83.8)	143	61.6 (31.2-85.0)
Age (years)						· · · · · · · · · · · · · · · · · · ·		
<20	635	59.0 (38.3-76.9)	150	14.8 (6.0-31.9)	504	46.8 (28.9-65.6)	245	24.1 (12.0-42.5)
20-29	13,931	75.2 (69.8-79.9)	5,953	33.8 (27.9-40.3)	12,458	67.8 (61.5-73.5)	9,529	54.3 (47.8-60.6)
30-39	38,631	91.0 (88.7-92.9)	18,833	45.4 (40.9-49.9)	29,922	70.4 (66.2-74.3)	30,570	74.3 (70.4-77.8)
40+	2,008	86.7 (70.1-94.8)	1,446	63.3 (47.3-76.9)	1,908	82.9 (69.6-91.2)	1,680	74.1 (58.3-85.5)
Education						· · · · · · · · · · · · · · · · · · ·		
<high school<="" td=""><td>2,904</td><td>65.0 (55.8-73.1)</td><td>1,176</td><td>28.8 (19.2-40.7)</td><td>3,240</td><td>74.1 (65.6-81.1)</td><td>1,704</td><td>41.7 (31.9-52.0)</td></high>	2,904	65.0 (55.8-73.1)	1,176	28.8 (19.2-40.7)	3,240	74.1 (65.6-81.1)	1,704	41.7 (31.9-52.0)
High school diploma	6,520	69.2 (60.8-76.5)	3,727	41.9 (32.9-51.5)	6,928	73.8 (65.1-81.0)	3,893	45.0 (35.7-54.6)
Some college	11,095	86.9 (81.9-90.7)	4,074	33.2 (25.8-41.6)	8,572	67.2 (59.1-74.4)	7,219	59.3 (51.0-67.1)
College graduate	33,832	93.1 (90.5-95.0)	17,136	47.8 (43.0-52.6)	25,367	69.7 (65.2-73.8)	28,350	79.3 (75.6-82.6)
Insurance type		· · · · ·				``````````````````````````````````````		
Private	35,800	93.4 (90.8-95.3)	18,032	48.0 (43.3-52.8)	25,829	67.3 (62.7-71.6)	29,736	79.3 (75.7-82.6)
Medicaid	16,523	74.6 (70.1-78.7)	7,105	33.7 (28.2-39.6)	16,417	74.8 (69.7-79.3)	9,955	48.2 (42.3-54.1)
Other	1,319	67.9 (46.1-84.0)	721	37.8 (20.4-59.2)	1,104	56.9 (36.3-75.3)	1,328	68.4 (49.3-82.8)
Household poverty level		, , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·		(/ / / / / / / / / / / / / /		
≤100% FPL	7,822	69.6 (62.8-75.6)	3,539	33.1 (25.9-41.2)	8,244	73.9 (66.8-80.0)	4,167	40.5 (33.0-48.4)
>100% FPL	44,972	90.0 (87.6-92.0)	21,516	44.1 (40.0-48.2)	34,058	68.1 (64.2-71.8)	36,263	74.3 (70.8-77.5)
Nativity		· · · · · ·				``````````````````````````````````````		,
Non-US-born	15,683	76.8 (72.8-80.4)	6,754	35.9 (31.2-40.8)	15,381	75.5 (71.3-79.3)	9,559	51.1 (46.1-56.1)
US-born	39,523	89.9 (87.0-92.2)	19,629	45.1 (40.5-49.8)	29,410	67.0 (62.5-71.2)	32,466	75.0 (70.9-78.7)
Marital status						· · · · · · · · · · · · · · · · · · ·		
Unmarried	15,421	76.8 (71.7-81.1)	6,802	35.3 (29.0-42.1)	14,757	73.9 (68.0-79.2)	10,127	52.9 (46.3-59.5)
Married	39,785	89.8 (87.3-91.9)	19,580	45.4 (41.2-49.7)	30,034	67.8 (63.7-71.6)	31,898	74.4 (70.9-77.7)
WIC participation		, , ,		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
No	42,404	93.2 (91.0-95.0)	20,346	45.7 (41.4-50.2)	31,144	68.4 (64.2-72.3)	33,667	76.0 (72.4-79.3)
Yes	12,702	67.7 (62.3-72.7)	6,021	33.8 (28.2-39.9)	13,602	73.2 (67.7-78.1)	8,287	47.1 (41.0-53.2)
Disability status		, /		,		· · · · · · · · · · · · · · · · · · ·		•
No	48,446	86.2 (83.7-88.3)	23,645	43.5 (39.7-47.4)	38,802	69.0 (65.4-72.4)	38,171	70.7 (67.4-73.9)
Yes	6,260	83.5 (76.8-88.5)	2,526	33.9 (24.8-44.3)	5,502	74.2 (65.1-81.6)	3,618	48.4 (38.5-58.5)

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Supine sleep: infant placed to sleep on their back; ⁴Separate sleep surface: infant sleeps on a separate approved sleep surface (crib, bassinet, or pack and play); ⁵No bed-sharing: infant room-sharing without bed-sharing; ⁶No soft objects/loose bedding: infant sleeps without soft objects or loose bedding such as blankets, toys, or crib bumper pads n weighted to reflect birthing population

Table 51. Prevalence of reporting oral health care and knowledge by type and sociodemographic characteristics, MA PRAMS, 2019

Characteristic n ¹ Perce (95% Total 35,665 53.9 (s) Race/ethnicity	l prior to cy ³		cleaned during regnancy ⁴		nsurance during regnancy ⁵		nowledge of nportance ⁶	Received counseling ⁷		
Race/ethnicity Automation White, non-Hispanic 24,881 62.9 (state) Black, non-Hispanic 2,489 37.8 (state) Hispanic 5,213 40.6 (state) Asian, non-Hispanic 2,512 43.7 (state) Other, non-Hispanic 195 31.1 (state) Age (years)	centage 5% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	
White, non-Hispanic 24,881 62.9 (f) Black, non-Hispanic 2,489 37.8 (f) Hispanic 5,213 40.6 (f) Asian, non-Hispanic 2,512 43.7 (f) Other, non-Hispanic 195 31.1 (f) Age (years)	(50.9-57.0)	38,890	58.8 (55.7-61.7)	57,860	89.5 (87.7-91.1)	59,171	89.9 (88.1-91.5)	37,743	57.9 (54.8-61.0	
Black, non-Hispanic 2,489 37.8 (* Hispanic 5,213 40.6 (* Asian, non-Hispanic 2,512 43.7 (* Other, non-Hispanic 195 31.1 (* Age (years) - - <20			х						•	
Hispanic 5,213 40.6 (*) Asian, non-Hispanic 2,512 43.7 (*) Other, non-Hispanic 195 31.1 (*) Age (years) - - <20	(58.2-67.4)	25,447	64.3 (59.6-68.7)	35,696	91.8 (88.9-94.0)	36,988	93.8 (91.1-95.8)	24,051	61.5 (56.7-66.0	
Hispanic 5,213 40.6 (*) Asian, non-Hispanic 2,512 43.7 (*) Other, non-Hispanic 195 31.1 (*) Age (years) - - <20	(32.3-43.6)	2,943	45.3 (39.8-51.0)	5,436	86.8 (82.7-90.0)	5,324	82.6 (77.4-86.8)	3,108	49.1 (43.4-54.8	
Other, non-Hispanic 195 31.1 (*) Age (years)	(35.9-45.5)	6,675	51.6 (46.7-56.4)	11,062	88.1 (84.6-90.9)	10,752	83.6 (79.6-87.0)	6,805	53.6 (48.6-58.4	
Age (years)	(38.3-49.2)	2,895	50.2 (44.7-55.8)	4,659	83.6 (78.9-87.4)	4,796	84.5 (79.9-88.2)	2,995	53.6 (47.9-59.1	
<20	(17.1-49.8)	407	64.8 (46.2-79.9)	408	70.7 (50.7-85.0)	525	83.7 (66.3-93.1)	372	61.8 (43.1-77.6	
20-29 8,086 38.3 (; 30-39 25,152 62.2 (; 40+ 1,986 57.1 (; Education									·	
30-39 25,152 62.2 (€ 40+ 1,986 57.1 (4) Education - <high school<="" td=""> 1,410 28.4 (2) High school diploma 2,864 30.0 (2) Some college 6,884 43.6 (2) College graduate 23,476 69.1 (6) Insurance type - - Private 26,760 67.7 (6) Medicaid 7,809 33.8 (2) Other 480 26.9 (7) Household poverty - - level - - ≤100% FPL 4,070 31.5 (2) >100% FPL 30,668 61.1 (5) Nativity - - Non-US-born 7,526 39.3 (2) US-born 28,139 60.0 (5) Marital status - - Unmarried 8,485 40.2 (2) Married 27,180 60.4 (5) WIC participation - -</high>	(24.3-62.7)	487	46.8 (28.3-66.2)	860	82.6 (58.3-94.2)	845	81.1 (62.2-91.8)	577	55.5 (34.9-74.3)	
40+ 1,986 57.1 (a) Education - <high school<="" td=""> 1,410 28.4 (a) High school diploma 2,864 30.0 (a) Some college 6,884 43.6 (a) College graduate 23,476 69.1 (a) Insurance type - - Private 26,760 67.7 (a) Medicaid 7,809 33.8 (a) Other 480 26.9 (a) Household poverty - - level - - ≤100% FPL 4,070 31.5 (a) >100% FPL 30,668 61.1 (a) Nativity - - Non-US-born 7,526 39.3 (a) US-born 28,139 60.0 (a) Marital status - - Unmarried 8,485 40.2 (a) Married 27,180 60.4 (a) WIC participation - - No 28,180 62.4 (a) Yes 7,184 35.6 (a) </high>	(33.3-43.5)	9,653	45.7 (40.6-50.8)	17,899	87.1 (83.3-90.1)	18,177	86.9 (83.3-89.8)	10,856	52.5 (47.3-57.7)	
Education Image: school 1,410 28.4 (2) High school diploma 2,864 30.0 (2) Some college 6,884 43.6 (2) College graduate 23,476 69.1 (6) Insurance type Image: school diploma 2,864 30.0 (2) Private 23,476 69.1 (6) 69.1 (6) Insurance type Image: school diploma 2,864 43.6 (2) Private 26,760 67.7 (6) 67.7 (6) Medicaid 7,809 33.8 (2) 60.9 (7) Other 480 26.9 (7) 480 26.9 (7) Household poverty Image: school diploma 26,760 67.7 (6) Velow 1 26,760 67.7 (6) 67.7 (6) Moticaid 7,809 33.8 (2) 60.9 (7) 60.9 (7) Household poverty Image: school diploma 26,760 67.7 (6) Shoon-US-born 7,526 39.3 (2) 50.0 (6) Marital status 1 100 100 Unmarried<	(58.2-66.0)	26,633	65.8 (61.9-69.5)	35,992	91.0 (88.7-92.9)	36,955	91.6 (89.3-93.4)	24,033	60.1 (56.0-64.1)	
<high school<="" td=""> 1,410 28.4 (2) High school diploma 2,864 30.0 (2) Some college 6,884 43.6 (3) College graduate 23,476 69.1 (6) Insurance type </high>	(43.6-69.7)	2,117	59.8 (46.1-72.2)	3,110	89.4 (80.6-94.5)	3,194	91.6 (82.9-96.1)	2,277	65.6 (51.8-77.1)	
High school diploma 2,864 30.0 (2) Some college 6,884 43.6 (3) College graduate 23,476 69.1 (6) Insurance type 9 Private 26,760 67.7 (6) Medicaid 7,809 33.8 (2) Other 480 26.9 (7) Household poverty 100% 100% Ievel 2100% FPL 4,070 ≤100% FPL 30,668 61.1 (5) Non-US-born 7,526 39.3 (5) US-born 28,139 60.0 (5) Marital status 100 100 Unmarried 8,485 40.2 (5) Married 27,180 60.4 (5) WIC participation 100 100 No 28,180 62.4 (5) Yes 7,184 35.6 (5)			х							
Some college 6,884 43.6 (° College graduate 23,476 69.1 (° Insurance type - - Private 26,760 67.7 (° Medicaid 7,809 33.8 (° Other 480 26.9 (° Household poverty - - level - - ≤100% FPL 4,070 31.5 (° >100% FPL 30,668 61.1 (° Nativity - - Non-US-born 7,526 39.3 (° US-born 28,139 60.0 (° Marital status - - Unmarried 8,485 40.2 (° Married 27,180 60.4 (° WIC participation - - No 28,180 62.4 (° Yes 7,184 35.6 (°	(20.9-37.4)	1,789	36.2 (28.2-45.0)	4,206	87.2 (80.2-92.0)	3,727	75.8 (67.5-82.5)	2,229	46.2 (37.2-55.4	
College graduate 23,476 69.1 (f) Insurance type	(24.1-36.7)	4,718	48.7 (41.5-56.1)	8,105	88.7 (84.0-92.2)	8,320	87.5 (82.3-91.3)	4,764	51.5 (44.0-58.9	
Insurance type Image: state stat	(37.5-49.8)	7,327	46.3 (40.2-52.5)	13,667	88.9 (85.1-91.9)	13,815	87.5 (82.8-91.0)	7,895	50.4 (44.1-56.6	
Insurance type Image: state stat	(64.9-73.0)	23,801	70.2 (66.0-74.0)	30,369	90.7 (87.8-92.9)	31,606	93.6 (91.3-95.3)	21,674	64.5 (60.0-68.8	
Medicaid 7,809 33.8 (2) Other 480 26.9 (1) Household poverty - - level - - ≤100% FPL 4,070 31.5 (2) >100% FPL 30,668 61.1 (5) Nativity - - Non-US-born 7,526 39.3 (5) US-born 28,139 60.0 (5) Marital status - - Unmarried 8,485 40.2 (5) Married 27,180 60.4 (5) WIC participation - - No 28,180 62.4 (5) Yes 7,184 35.6 (5)			х							
Other 480 26.9 (*) Household poverty	(63.7-71.5)	27,163	68.8 (64.8-72.5)	36,273	92.8 (90.5-94.5)	36,910	93.7 (91.7-95.3)	24,821	63.7 (59.5-67.7	
Household poverty level 4,070 31.5 (2 >100% FPL ≥100% FPL 30,668 61.1 (5 0.668 Nativity 7,526 39.3 (5 0.0 (5 0.0 (5)) Non-US-born 7,526 39.3 (5 0.0 (5)) Marital status 0 0 Unmarried 8,485 40.2 (5 0.4 (5)) Married 27,180 60.4 (5) WIC participation 0 0 No 28,180 62.4 (5) Yes 7,184 35.6 (5)	(29.6-38.3)	9,987	43.1 (38.6-47.7)	19,275	87.6 (84.3-90.3)	19,425	84.8 (81.2-87.8)	11,140	49.1 (44.4-53.8)	
level 4,070 31.5 (2) ≤100% FPL 4,070 31.5 (2) >100% FPL 30,668 61.1 (5) Nativity - - Non-US-born 7,526 39.3 (2) US-born 28,139 60.0 (5) Marital status - - Unmarried 8,485 40.2 (5) Married 27,180 60.4 (5) WIC participation - - No 28,180 62.4 (5) Yes 7,184 35.6 (5)	(14.3-44.8)	944	52.9 (35.9-69.2)	1,051	58.9 (41.0-74.7)	1,513	84.8 (66.3-94.0)	907	51.3 (34.2-68.1)	
≤100% FPL 4,070 31.5 (2) >100% FPL 30,668 61.1 (5) Nativity										
>100% FPL 30,668 61.1 (s) Nativity 30,668 61.1 (s) Non-US-born 7,526 39.3 (s) US-born 28,139 60.0 (s) Marital status 9 9 Unmarried 8,485 40.2 (s) Married 27,180 60.4 (s) WIC participation 9 9 No 28,180 62.4 (s) Yes 7,184 35.6 (s)	(26.3-37.2)	5,861	44.6 (38.7-50.6)	10,800	85.1 (80.4-88.8)	10,658	81.2 (76.0-85.5)	6,797	52.3 (46.1-58.3)	
Nativity 7,526 39.3 (3) Non-US-born 7,526 39.3 (3) US-born 28,139 60.0 (4) Marital status 0 0 Unmarried 8,485 40.2 (5) Married 27,180 60.4 (4) WIC participation 0 0 No 28,180 62.4 (4) Yes 7,184 35.6 (5)	(57.5-64.6)	31,628	62.9 (59.4-66.4)	44,787	90.9 (88.7-92.7)	46,320	92.7 (90.9-94.2)	29,725	60.1 (56.4-63.7	
Non-US-born 7,526 39.3 (3 US-born 28,139 60.0 (5 Marital status		01,020	02.0 (00.1 00.1)	11,101		10,020		20,120	00.1 (00.1 00.1	
US-born 28,139 60.0 (8) Marital status Unmarried 8,485 40.2 (3) Married 27,180 60.4 (8) 60.4 (8) WIC participation Unmarried 28,180 62.4 (8) Yes 7,184 35.6 (3) 35.6 (3)	(35.1-43.7)	9,259	48.4 (44.1-52.7)	15,075	82.4 (79.1-85.3)	15,751	82.7 (79.3-85.7)	9,708	52.0 (47.6-56.3	
Marital status Image: Marital status Unmarried 8,485 40.2 (3) Married 27,180 60.4 (4) WIC participation Image: Married state st	(56.0-63.8)	29,630	63.0 (59.1-66.8)	42,786	92.4 (90.0-94.2)	43,395	92.8 (90.7-94.5)	28,035	60.4 (56.3-64.2	
Unmarried 8,485 40.2 (\$ Married 27,180 60.4 (\$ WIC participation 28,180 62.4 (\$ No 28,180 62.4 (\$ Yes 7,184 35.6 (\$		_0,000		,		,				
Married 27,180 60.4 (s WIC participation 28,180 62.4 (s No 28,180 62.4 (s Yes 7,184 35.6 (s	(35.2-45.4)	10,106	47.7 (42.6-52.9)	18,268	89.0 (85.2-91.9)	17,896	85.3 (81.4-88.5)	10,776	51.7 (46.4-56.9	
WIC participation 28,180 62.4 (\$ No 28,180 55.6 (\$ Yes 7,184 35.6 (\$	(56.7-64.0)	28,784	64.0 (60.3-67.5)	39,592	89.8 (87.6-91.6)	41,275	92.1 (90.1-93.7)	26,967	60.9 (57.0-64.6	
No 28,180 62.4 (state) Yes 7,184 35.6 (state)	(0011 0110)	,		,		,				
Yes 7,184 35.6 ((58.6-66.1)	29,073	64.2 (60.4-67.8)	40,708	90.8 (88.6-92.7)	41,914	92.9 (90.9-94.5)	27,399	61.2 (57.2-64.9	
	(31.1-40.3)	9,701	47.2 (42.4-52.0)	16,973	86.7 (83.0-89.6)	17,060	83.4 (79.5-86.7)	10,165	50.4 (45.5-55.3	
Disability status		-,				,000				
	(53.0-60.0)	34,968	59.5 (56.3-62.6)	51,609	89.9 (88.0-91.6)	53,082	90.7 (88.9-92.3)	34,026	58.7 (55.4-61.9	
	(37.8-59.3)	3,694	54.1 (44.8-63.1)	5,794		5,707	84.1 (76.6-89.6)	3,455	51.7 (42.3-61.0	

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Teeth cleaned prior to pregnancy=teeth cleaned in the 12 months before pregnancy; ⁴Teeth cleaned during pregnancy; ⁶Dental insurance during pregnancy =had dental insurance during pregnancy; ⁶Knowledge of importance=knowledge of the importance of teeth and gum care during pregnancy; ⁷Received counseling=receiving counseling on the importance of teeth care during pregnancy

		cleaned prior to pregnancy ³		cleaned during regnancy⁴		surance during gnancy ⁵		owledge of portance ⁶	Receiv	ed counseling ⁷
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	35,457	55.5 (52.2-58.7)	32,608	51.1 (47.7-54.5)	54,146	87.1 (84.7-89.2)	56,064	88.5 (86.2-90.4)	33,754	53.9 (50.5-57.4
Race/ethnicity						· · ·		,		
White, non-Hispanic	24,806	67.4 (62.1-72.3)	20,930	56.9 (51.4-62.1)	32,369	89.9 (86.0-92.8)	33,479	91.5 (87.7-94.1)	20,449	56.5 (51.0-61.8
Black, non-Hispanic	2,334	36.9 (31.3-42.9)	2,520	39.8 (34.3-45.5)	4,892	80.4 (74.9-85.0)	5,180	83.0 (78.5-86.7)	3,072	49.9 (44.2-55.7
Hispanic	5,325	39.3 (34.3-44.5)	6,091	45.4 (40.2-50.7)	11,169	85.3 (80.9-88.8)	11,041	82.9 (78.5-86.6)	6,406	48.6 (43.3-53.9
Asian, non-Hispanic	2,413	40.8 (35.3-46.5)	2,315	38.6 (33.2-44.3)	4,497	79.0 (73.7-83.4)	5,161	87.2 (82.7-90.7)	3,102	53.8 (47.9-59.5
Other, non-Hispanic	148	36.4 (17.3-61.1)	186	45.7 (24.2-68.9)	350	86.0 (58.3-96.5)	336	82.5 (56.9-94.4)	159	39.0 (19.3-63.1
Age (years)						· · ·		,		•
<20	198	13.7 (4.2-36.5)	265	18.3 (7.5-38.2)	1,230	84.9 (64.2-94.7)	867	59.9 (38.7-77.9)	494	34.1 (17.8-55.2
20-29	9,995	48.0 (41.9-54.0)	9,832	47.3 (41.2-53.4)	17,683	87.5 (83.7-90.6)	17,613	85.6 (81.2-89.1)	10,478	51.4 (45.2-57.5
30-39	22,681	60.6 (56.3-64.7)	20,408	54.6 (50.1-58.9)	31,668	86.6 (83.2-89.4)	33,650	90.5 (87.6-92.8)	20,644	56.2 (51.6-60.6
40+	2,583	62.0 (49.4-73.2)	2,104	50.5 (38.0-63.0)	3,565	90.5 (80.0-95.8)	3,935	94.5 (86.4-97.9)	2,139	53.7 (40.7-66.3
Education						· · ·		,		•
<high school<="" td=""><td>1,213</td><td>24.5 (17.5-33.1)</td><td>1,615</td><td>32.8 (24.5-42.4)</td><td>3,896</td><td>82.0 (73.4-88.2)</td><td>3,604</td><td>73.7 (62.6-82.4)</td><td>2,035</td><td>41.5 (32.3-51.3</td></high>	1,213	24.5 (17.5-33.1)	1,615	32.8 (24.5-42.4)	3,896	82.0 (73.4-88.2)	3,604	73.7 (62.6-82.4)	2,035	41.5 (32.3-51.3
High school diploma	3,575	36.2 (27.8-45.4)	3,706	37.9 (29.9-46.6)	7,950	82.6 (75.3-88.0)	7,761	80.3 (72.2-86.4)	4,438	45.9 (37.2-54.9
Some college	7,005	53.5 (45.9-60.9)	6,905	52.8 (45.1-60.3)	11,004	88.0 (82.0-92.2)	11,558	89.1 (83.9-92.8)	7,205	57.3 (49.4-64.9
College graduate	23,121	66.7 (62.4-70.9)	19,944	57.4 (52.8-62.0)	30,263	89.0 (85.8-91.6)	32,015	92.6 (90.0-94.6)	19,630	57.4 (52.7-62.0
Insurance type						· · ·		,		
Private	25,584	68.4 (64.1-72.4)	22,000	58.8 (54.2-63.2)	33,513	91.3 (88.6-93.4)	34,894	93.8 (91.4-95.5)	22,156	60.0 (55.4-64.4
Medicaid	8,902	38.6 (33.2-44.3)	9,496	41.3 (36.0-46.8)	18,440	83.2 (78.7-86.9)	19,040	83.6 (79.4-87.1)	10,724	48.0 (42.5-53.6
Other	500	38.0 (18.4-62.5)	348	27.1 (13.0-48.1)	730	58.5 (35.4-78.4)	633	49.3 (28.1-70.8)	357	28.6 (15.1-47.3
Household poverty level				((((((((((((((((((((((· · · · · · · · · · · · · · · · · · ·		, ,
≤100% FPL	4,090	34.7 (27.6-42.6)	4,619	39.0 (32.0-46.6)	8,664	76.7 (69.9-82.4)	9,362	80.6 (74.2-85.7)	5,139	44.7 (37.4-52.2
>100% FPL	29,304	61.8 (57.9-65.6)	25,900	54.6 (50.5-58.6)	41,849	90.1 (87.5-92.2)	43,198	91.4 (88.9-93.4)	26,571	57.0 (52.9-61.1)
Nativity						· · ·		,		•
Non-US-born	8,388	38.2 (33.7-42.8)	9,248	42.0 (37.5-46.7)	16,448	78.2 (73.8-81.9)	18,195	83.6 (80.1-86.6)	10,308	48.4 (43.7-53.1)
US-born	27,069	64.6 (60.1-68.8)	23,360	55.9 (51.2-60.4)	37,698	91.7 (88.8-94.0)	37,869	91.0 (87.9-93.4)	23,446	56.8 (52.1-61.4)
Marital status										, , , , , , , , , , , , , , , , , , ,
Unmarried	8,578	43.5 (37.4-49.9)	7,801	39.7 (33.8-46.0)	16,666	86.4 (81.8-90.0)	16,125	82.9 (77.8-86.9)	9,156	47.0 (40.9-53.3
Married	26,879	60.8 (56.9-64.6)	24,807	56.1 (52.1-60.1)	37,480	87.5 (84.6-89.9)	39,940	91.0 (88.5-93.0)	24,598	57.1 (52.9-61.1
WIC participation		· · · · · ·		· · · · /			,	/	· · ·	``````````````````````````````````````
No	26,806	62.7 (58.5-66.7)	22,812	53.3 (49.0-57.6)	37,434	89.8 (87.2-91.9)	38,845	91.3 (88.5-93.5)	23,392	55.9 (51.5-60.1
Yes	8,545	41.2 (35.5-47.2)	9,754	46.7 (41.1-52.5)	16,542	81.6 (76.5-85.9)	17,101	82.7 (78.4-86.3)	10,332	50.3 (44.6-56.0
Disability status		· · · · /		,/	,		,			,
No	31,979	54.6 (51.3-57.8)	29,426	52.4 (48.8-56.0)	47,871	87.7 (85.2-89.8)	49,916	89.4 (87.2-91.3)	30,009	54.6 (50.9-58.3
Yes	3,467	51.6 (42.3-60.7)	2,754	40.7 (30.5-51.7)	5,563	83.7 (74.4-90.0)	5,381	80.8 (70.0-88.4)	3,192	47.3 (36.7-58.3

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Teeth cleaned prior to pregnancy=teeth cleaned in the 12 months before pregnancy; ⁴Teeth cleaned during pregnancy=teeth cleaned during pregnancy; ⁶Dental insurance during pregnancy =had dental insurance during pregnancy; ⁶Knowledge of importance=knowledge of the importance of teeth and gum care during pregnancy; ⁷Received counseling=receiving counseling on the importance of teeth care during pregnancy n weighted to reflect birthing population

		cleaned prior to regnancy ³		cleaned during pregnancy ⁴		surance during egnancy ⁵		owledge of portance ⁶	Receiv	ed counseling ⁷
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	33,588	50.5 (47.1-53.9)	34,984	52.7 (49.3-56.1)	57,753	88.7 (86.5-90.6)	58,985	88.9 (86.8-90.7)	34,207	52.2 (48.7-55.6)
Race/ethnicity		· · ·						· · ·		
White, non-Hispanic	23,425	59.3 (54.0-64.4)	23,114	58.7 (53.4-63.8)	35,444	91.2 (87.7-93.7)	36,422	92.2 (88.8-94.6)	21,159	54.2 (48.9-59.4)
Black, non-Hispanic	2,383	36.6 (31.0-42.6)	2,499	38.7 (32.9-44.7)	5,330	85.0 (80.4-88.7)	5,372	83.6 (78.8-87.5)	3,115	49.5 (43.5-55.6)
Hispanic	4,408	32.6 (27.8-37.7)	5,820	42.8 (37.7-48.1)	11,165	84.9 (80.6-88.3)	11,110	82.2 (77.7-85.9)	6,201	46.1 (40.9-51.4)
Asian, non-Hispanic	2,081	41.3 (35.2-47.6)	2,205	43.7 (37.5-50.1)	4,108	83.3 (77.9-87.6)	4,233	84.6 (79.6-88.5)	2,278	46.2 (39.9-52.6)
Other, non-Hispanic	142	42.0 (19.1-69.0)	178	52.6 (27.3-76.6)	268	88.2 (62.7-97.1)	303	89.4 (65.8-97.4)	125	41.1 (18.0-68.9)
Age (years)		x		· · · · · ·						x
<20	417	38.8 (21.1-60.0)	415	37.5 (20.3-58.6)	957	94.1 (79.2-98.5)	876	81.3 (63.7-91.5)	564	52.4 (33.7-70.5)
20-29	7,616	40.1 (34.2-46.4)	8,657	45.7 (39.6-51.9)	15,990	85.9 (81.2-89.6)	15,870	83.8 (79.2-87.6)	9,087	48.4 (42.2-54.7)
30-39	24,390	55.4 (51.1-59.7)	24,663	56.1 (51.7-60.4)	39,082	90.6 (88.0-92.7)	40,088	91.3 (88.7-93.3)	23,447	54.1 (49.6-58.4)
40+	1,165	47.8 (31.8-64.3)	1,249	53.5 (36.8-69.4)	1,724	74.4 (56.5-86.6)	2,151	89.6 (76.7-95.8)	1,109	47.4 (31.2-64.2)
Education		x x		· · · · · ·						x
<high school<="" td=""><td>1,249</td><td>26.6 (18.1-37.2)</td><td>1,871</td><td>40.1 (31.0-49.9)</td><td>3,938</td><td>89.7 (83.2-93.9)</td><td>3,497</td><td>76.4 (67.3-83.7)</td><td>1,900</td><td>42.5 (33.3-52.4)</td></high>	1,249	26.6 (18.1-37.2)	1,871	40.1 (31.0-49.9)	3,938	89.7 (83.2-93.9)	3,497	76.4 (67.3-83.7)	1,900	42.5 (33.3-52.4)
High school diploma	3,124	31.9 (24.0-41.0)	3,970	40.8 (32.2-49.9)	8,030	85.4 (78.8-90.1)	8,310	84.8 (77.5-90.0)	4,102	42.7 (34.4-51.5)
Some college	5,492	42.1 (34.4-50.3)	5,705	43.7 (36.0-51.7)	11,401	90.0 (83.9-94.0)	11,595	88.9 (83.9-92.5)	6,006	46.4 (38.4-54.5)
College graduate	22,954	61.1 (56.5-65.5)	22,653	60.5 (55.9-64.8)	33,244	89.2 (86.2-91.7)	34,342	91.5 (88.7-93.7)	21,222	57.1 (52.4-61.7)
Insurance type		x x		· · · · · ·						x
Private	24,539	62.3 (57.7-66.6)	24,396	61.9 (57.4-66.2)	35,393	90.9 (88.1-93.1)	36,429	92.4 (89.9-94.4)	21,957	56.5 (51.9-61.1)
Medicaid	7,804	33.9 (28.6-39.5)	8,809	38.4 (33.2-43.8)	19,572	87.6 (83.7-90.6)	18,935	82.9 (78.7-86.5)	10,368	45.6 (40.2-51.2)
Other	641	33.0 (16.3-55.5)	788	40.6 (22.6-61.5)	1,076	60.4 (40.2-77.7)	1,777	91.5 (74.2-97.6)	839	44.4 (25.3-65.3)
Household poverty		x x		· · · · · ·						x
level										
≤100% FPL	4,162	35.6 (28.6-43.3)	4,387	37.8 (31.0-45.2)	9,897	87.0 (81.6-90.9)	9,651	82.9 (77.1-87.4)	5,140	44.4 (37.1-52.0)
>100% FPL	28,445	55.6 (51.5-59.5)	29,425	57.4 (53.4-61.3)	45,114	89.5 (86.8-91.6)	46,617	91.1 (88.8-93.0)	27,530	54.5 (50.4-58.5)
Nativity										
Non-US-born	5,812	27.6 (23.7-31.9)	8,731	41.5 (36.8-46.3)	16,037	79.6 (75.5-83.2)	17,142	81.8 (77.9-85.1)	9,125	44.3 (39.6-49.1)
US-born	27,776	61.2 (56.7-65.5)	26,253	57.9 (53.3-62.4)	41,716	92.8 (90.0-94.9)	41,843	92.2 (89.5-94.3)	25,081	55.8 (51.1-60.3)
Marital status		· · ·						· · ·		
Unmarried	8,528	40.9 (34.6-47.4)	8,513	40.8 (34.7-47.3)	18,172	88.2 (83.5-91.7)	17,668	84.7 (79.8-88.6)	8,897	42.8 (36.7-49.2)
Married	25,060	54.9 (50.9-58.9)	26,471	58.1 (54.2-62.0)	39,582	89.0 (86.4-91.1)	41,316	90.8 (88.6-92.7)	25,310	56.5 (52.4-60.5)
WIC participation		x x		· · · · · ·						х
No	27,305	58.2 (54.0-62.3)	27,157	58.0 (53.8-62.1)	41,412	89.8 (87.1-91.9)	42,625	90.9 (88.3-92.9)	25,230	54.4 (50.1-58.7)
Yes	6,193	32.0 (26.6-37.9)	7,707	39.9 (34.3-45.8)	16,251	86.3 (81.8-89.7)	16,187	84.0 (79.7-87.6)	8,856	46.5 (40.6-52.4)
Disability status		. ,								. ,
No	30,255	52.3 (48.7-56.0)	31,787	55.0 (51.3-58.6)	50,957	89.8 (87.5-91.8)	51,970	89.9 (87.7-91.7)	30,503	53.4 (49.6-57.1)
Yes	3,184	41.5 (32.1-51.7)	2,795	36.6 (27.8-46.4)	6,121	81.7 (73.2-88.0)	6,183	82.0 (73.2-88.3)	3,076	41.3 (32.0-51.2)

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Teeth cleaned prior to pregnancy=teeth cleaned in the 12 months before pregnancy; ⁴Teeth cleaned during pregnancy = the dental insurance during pregnancy; ⁶Knowledge of importance=knowledge of the importance of teeth and gum care during pregnancy; ⁷Received counseling=receiving counseling on the importance of teeth care during pregnancy n weighted to reflect birthing population

Table 54. Prevalence of reasons for not going to the dentist during pregnancy, MA PRAMS, 2019-2021

		2019		2020	2021			
Reasons for not going to the dentist during pregnancy	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)		
I could not find a dentist or dental clinic that would take pregnant patients	2,454	3.8 (2.9-5.0)	2,634	4.3 (3.1-6.0)	2,876	4.4 (3.3-5.9)		
I could not find a dentist or dental clinic that would take MassHealth patients	3,189	5.0 (3.8-6.4)	3,558	5.8 (4.4-7.6)	3,735	5.8 (4.5-7.4)		
I did not think it was safe to go to the dentist during pregnancy	8,255	12.7 (11.0-14.6)	11,998	19.3 (16.8-21.9)	11,217	17.2 (15.0-19.8)		
I could not afford to go to the dentist or dental clinic	5,852	9.0 (7.5-10.9)	4,518	7.4 (6.0-9.1)	5,560	8.6 (6.9-10.7)		

Table 55. Prevalence of enrollment in WIC during pregnancy by sociodemographic characteristics, MA PRAMS, 2019-2021

			WIC du	iring pregnancy		
		2019		2020		2021
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% Cl)
Total	20,592	31.2 (28.8-33.8)	20,876	32.8 (29.9-35.8)	19,453	29.3 (26.6-32.1)
Race/ethnicity						
White, non-Hispanic	6,494	16.4 (13.2-20.3)	6,616	18.0 (13.8-23.1)	6,148	15.6 (11.9-20.2)
Black, non-Hispanic	3,647	57.0 (51.3-62.5)	3,927	62.7 (57.3-67.9)	3,614	55.5 (49.6-61.3)
Hispanic	8,510	66.2 (61.6-70.5)	8,816	66.0 (60.9-70.8)	8,442	62.3 (57.1-67.2)
Asian, non-Hispanic	1,315	23.0 (18.2-28.5)	1,000	16.6 (12.5-21.8)	856	17.2 (12.4-23.2)
Other, non-Hispanic	439	70.0 (52.1-83.3)	288	70.8 (47.3-86.7)	232	68.3 (41.1-87.0)
Age (years)						
<20	853	82.0 (63.6-92.2)	1,253	90.3 (72.9-97.0)	933	89.1 (73.7-96.0)
20-29	10,390	49.5 (44.4-54.6)	10,593	50.9 (45.0-56.9)	9,851	51.8 (45.7-57.9)
30-39	8,583	21.3 (18.5-24.3)	7,582	20.3 (17.1-23.9)	8,172	18.6 (15.6-22.0)
40+	765	21.8 (14.1-32.2)	1,449	34.8 (24.2-47.1)	496	20.7 (11.5-34.3)
Education						
<high school<="" td=""><td>4,239</td><td>86.6 (80.6-91.0)</td><td>3,930</td><td>80.9 (69.8-88.6)</td><td>3,520</td><td>75.9 (64.7-84.5)</td></high>	4,239	86.6 (80.6-91.0)	3,930	80.9 (69.8-88.6)	3,520	75.9 (64.7-84.5)
High school diploma	6,554	68.5 (60.8-75.2)	6,192	63.3 (54.0-71.8)	5,897	60.0 (50.5-68.7)
Some college	6,829	43.2 (37.3-49.3)	6,477	49.7 (42.0-57.3)	6,716	51.5 (43.5-59.4)
College graduate	2,597	7.7 (5.9-10.0)	3,466	10.0 (7.5-13.2)	2,719	7.2 (5.3-9.9)
Insurance type						
Private	1,807	4.6 (3.3-6.3)	2,182	5.8 (4.1-8.1)	1,640	4.2 (2.7-6.4)
Medicaid	17,348	75.3 (70.8-79.3)	17,002	74.0 (68.8-78.7)	16,614	72.2 (66.7-77.1)
Other	691	38.7 (23.6-56.3)	573	44.6 (24.5-66.6)	536	27.9 (14.9-46.0)
Household poverty level	40.040	00.0 (77.0.00.0)	0.404	70.0 (74.5.00.7)	0.054	70 (00 5 00 4)
≤100% FPL	10,812	82.2 (77.2-86.3)	9,194	78.2 (71.5-83.7)	8,851	76 (68.5-82.1)
>100% FPL	8,173	16.3 (14.1-18.8)	8,525	17.9 (15.2-21.0)	8,464	16.5 (13.9-19.5)
Nativity	0.050	40.7 (44.5.50.0)	10 000	40 7 (44 0 50 0)	0.000	45 0 (44 0 50 0)
Non-US-born	9,256	48.7 (44.5-52.9)	10,683	48.7 (44.3-53.2)	9,622	45.8 (41.3-50.3)
US-born	11,311	24.1 (21.1-27.4)	10,193	24.4 (20.7-28.5)	9,831	21.7 (18.2-25.5)
Marital status	10		10			/== - ····
Unmarried	13,386	63.6 (58.4-68.6)	12,614	64.4 (58.0-70.2)	12,859	61.6 (55.0-67.8)
Married	7,206	16.0 (14.0-18.4)	8,262	18.7 (16.0-21.8)	6,594	14.5 (12.4-16.9)
Disability status						
No	16,760	28.6 (26.1-31.2)	16,790	29.9 (26.9-33.1)	14,902	25.8 (23.0-28.7)
Yes	3,685	54.1 (44.7-63.2)	3,515	51.9 (41.1-62.6)	3,886	50.7 (40.9-60.5)

Table 56. Prevalence of unintended pregnancy and of being unsure about becoming pregnant by sociodemographic characteristics, MA PRAMS, 2019-2021

		201	9			20	20			202	21	
	Uninte	nded pregnancy ³		ure of how felt ut pregnancy ⁴	Uninter	nded pregnancy ³		of how felt about pregnancy ⁴	Uninte	nded pregnancy ³		ure of how felt ut pregnancy ⁴
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	13,844	20.9 (18.6-23.5)	8,059	12.2 (10.4-14.2)	10,769	17.0 (14.7-19.6)	8,049	12.7 (10.6-15.2)	11,412	17.2 (14.9-19.9)	7,555	11.4 (9.3-13.9)
Race/ethnicity												
White, non-Hispanic	6,874	17.4 (14.0-21.3)	3,811	9.6 (7.2-12.8)	4,447	12.2 (8.9-16.4)	4,167	11.4 (8.3-15.6)	4,667	11.9 (8.7-16.0)	4,393	11.2 (8.2-15.1)
Black, non-Hispanic	2,243	33.9 (28.4-39.9)	1,278	19.3 (15.2-24.3)	1,493	24.0 (19.7-28.9)	1,343	21.6 (17.0-27.1)	1,977	30.4 (25.2-36.2)	1,017	15.6 (11.7-20.5)
Hispanic	3,333	26.0 (21.9-30.6)	2,273	17.7 (14.3-21.9)	3,729	27.9 (23.2-33.0)	1,742	13.0 (9.9-16.9)	3,650	26.9 (22.5-31.9)	1,535	11.3 (8.2-15.4)
Asian, non-Hispanic	880	15.2 (11.6-19.7)	511	8.8 (6.1-12.7)	1,013	16.9 (12.9-21.8)	654	10.9 (7.7-15.2)	556	11.2 (7.8-15.8)	555	11.1 (7.6-16.0)
Other, non-Hispanic	178	30.5 (16.1-50.0)	110	18.9 (8.1-37.9)	Ins	ufficient data ²	Ins	sufficient data ²	143	47 (22.3-73.3)		Insufficient data2
Age (years)		· · · · ·		· · · · · ·								
<20	559	56.1 (35.5-74.7)	262	26.3 (11.6-49.2)	910	64.5 (42.8-81.5)	357	25.3 (10.9-48.3)	530	49.2 (30.7-68.0)		Insufficient data ²
20-29	6,351	30.1 (25.6-35.0)	2,999	14.2 (11.2-17.8)	5,115	24.7 (19.8-30.4)	3,791	18.3 (13.9-23.7)	5,269	27.8 (22.6-33.6)	2,924	15.4 (11.3-20.7)
30-39	6,391	15.8 (13.0-19.0)	4,299	10.6 (8.4-13.3)	4,278	11.5 (9.2-14.3)	3,362	9.0 (6.8-11.9)	5,208	11.9 (9.4-14.9)	4,171	9.5 (7.2-12.5)
40+	543	15.7 (8.3-27.8)	499	14.4 (7.3-26.4)	465	11.5 (5.4-22.9)	540	13.4 (6.9-24.4)	405	16.6 (6.7-35.7)	323	13.2 (5.4-29.0)
Education												
<high school<="" td=""><td>1.499</td><td>30.6 (22.5-39.9)</td><td>816</td><td>16.6 (10.7-24.9)</td><td>1,542</td><td>31.5 (23.0-41.5)</td><td>1,086</td><td>22.2 (13.9-33.4)</td><td>1,862</td><td>40.1 (30.6-50.4)</td><td>503</td><td>10.8 (5.7-19.7)</td></high>	1.499	30.6 (22.5-39.9)	816	16.6 (10.7-24.9)	1,542	31.5 (23.0-41.5)	1,086	22.2 (13.9-33.4)	1,862	40.1 (30.6-50.4)	503	10.8 (5.7-19.7)
High school diploma	3,530	36.2 (29.4-43.7)	1,795	18.4 (13.5-24.7)	3,463	35.4 (27.1-44.8)	1,822	18.6 (13.0-26.0)	2,656	27.3 (20.3-35.6)	2,039	21.0 (14.3-29.6)
Some college	4,022	25.6 (20.6-31.3)	2,595	16.5 (12.6-21.4)	2,349	18.4 (13.6-24.3)	2,550	19.9 (14.0-27.6)	3,010	23.0 (16.8-30.7)	2,160	16.5 (11.5-23.2)
College graduate	4,332	12.8 (10.0-16.1)	2,634	7.8 (5.7-10.5)	3,329	9.6 (7.3-12.5)	2,439	7.0 (5.1-9.6)	3,554	9.5 (7.2-12.5)	2,817	7.5 (5.3-10.5)
Insurance type	1		1		- /		1		- /		1-	
Private	5,049	12.8 (10.1-16.0)	3,398	8.6 (6.5-11.3)	4,099	11.0 (8.4-14.2)	2,444	6.5 (4.7-9.1)	3,285	8.4 (6.3-11.0)	2,872	7.3 (5.2-10.2)
Medicaid	7,764	33.5 (29.2-38.1)	4,169	18.0 (14.8-21.6)	5,785	25.3 (21.1-30.1)	4,969	21.8 (17.4-26.8)	6,867	29.9 (25.0-35.3)	4,326	18.8 (14.7-23.8)
Other	505	30.2 (16.1-49.3)	241	14.4 (5.2-33.9)	497	37.9 (18.3-62.3)	226	17.2 (6.4-38.5)	422	21.7 (9.0-43.8)	,	Insufficient data2
Household poverty level				, , ,				· · · · ·				
≤100% FPL	4,901	38.0 (32.1-44.2)	2,714	21.0 (16.4-26.5)	3,877	33.1 (26.3-40.8)	2,450	20.9 (15.6-27.5)	3,612	31.1 (24.5-38.5)	2,374	20.4 (14.9-27.3)
>100% FPL	8,097	16.1 (13.6-19.0)	4,711	9.4 (7.5-11.7)	5,728	12.2 (9.9-14.9)	4,892	10.4 (8.1-13.2)	6,950	13.6 (11.1-16.6)	4,662	9.1 (7.0-11.9)
Nativity	, í		,	, , ,	,		,	· · · · ·			,	
Non-US-born	4,123	21.5 (18.2-25.3)	2,280	11.9 (9.5-14.7)	4,173	19.1 (15.9-22.8)	2,626	12.0 (9.3-15.3)	5,233	24.9 (21.0-29.3)	2,233	10.6 (7.8-14.3)
US-born	9,695	20.7 (17.7-24.0)	5,779	12.3 (10.0-15.0)	6,596	15.9 (12.8-19.5)	5,423	13.1 (10.2-16.6)	6,178	13.7 (10.8-17.1)	5,322	11.8 (9.1-15.1)
Marital status	- ,		- / -						- / -		- / -	
Unmarried	7,179	34.3 (29.4-39.5)	4,560	21.8 (17.9-26.2)	6,270	32.3 (26.7-38.4)	4,557	23.4 (18.6-29.1)	6,365	30.4 (24.9-36.6)	4,175	20 (15.2-25.7)
Married	6,664	14.8 (12.3-17.6)	3,499	7.7 (5.9-10.0)	4,499	10.2 (8.2-12.7)	3,493	8.0 (5.9-10.6)	5,047	11.1 (9.0-13.8)	3,380	7.5 (5.6-9.9)
WIC participation	,		,		,	, - · /		,		,	,	(· · · · · · · · · · · · · · · · ·
No	7,083	15.7 (13.0-18.8)	4,179	9.3 (7.3-11.7)	5,181	12.2 (9.6-15.4)	3,786	8.9 (6.8-11.6)	5,958	12.8 (10.2-15.8)	3,765	8.1 (6.0-10.8)
Yes	6.600	32.5 (28.1-37.2)	3,671	18.1 (14.6-22.1)	5,587	27.3 (22.7-32.4)	4,153	20.3 (15.8-25.6)	5,423	28.1 (23.1-33.7)	3,772	19.5 (15.0-25.0)
Disability status	-,0	· (· · · · · · · · · · · · · · ·	-,		-,		.,		-,		-,	
No	11,642	19.9 (17.4-22.6)	6,714	11.5 (9.6-13.6)	8,070	14.5 (12.3-17.1)	6,749	12.1 (9.9-14.8)	9,007	15.6 (13.2-18.4)	5,472	9.5 (7.5-11.9)
Yes	2.012	29.6 (21.6-39.2)	1,296	19.1 (13.0-27.1)	2,452	36.3 (26.3-47.7)	1,063	15.8 (9.5-24.9)	2.117	27.7 (19.7-37.4)	1,933	25.3 (17.2-35.5)
¹ n weighted to reflect birthing												

Table 57. Prevalence of receiving influenza vaccination before or during pregnancy and Tdap vaccination during pregnancy by sociodemographic characteristics, MA PRAMS, 2019-2021

			19)20				21	
	Influen	za vaccination ³	Tdap	vaccination ⁴	Influer	nza vaccination ³	Tda	p vaccination ⁴	Influer	za vaccination ³	Tdaj	o vaccination ⁴
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)				
Total	51,527	78.5 (75.8-80.9)	54,971	89.6 (87.4-91.4)	50,062	79.7 (76.7-82.4)	52,511	89.2 (86.7-91.3)	51,619	78.4 (75.4-81.2)	56,183	89.7 (87.4-91.6
Race/ethnicity												
White, non-Hispanic	31,390	79.6 (75.5-83.2)	34,737	90.7 (87.4-93.2)	29,329	80.3 (75.5-84.4)	31,541	89.6 (85.5-92.7)	31,470	80.3 (75.6-84.3)	35,556	93.5 (90.1-95.7
Black, non-Hispanic	4,848	75.7 (70.8-80.0)	5,030	88.0 (83.9-91.1)	4,383	72.0 (66.9-76.6)	4,733	85.9 (81.4-89.4)	4,441	70.1 (64.4-75.3)	4,537	78.1 (71.6-83.
Hispanic	9,447	74.3 (69.8-78.4)	9,474	86.4 (82.4-89.6)	10,408	80.1 (75.5-84.1)	10,158	88.6 (84.4-91.8)	10,181	75.6 (70.7-79.9)	10,094	82.2 (77.5-86.
Asian, non-Hispanic	4,975	86.9 (82.5-90.3)	4,810	93.5 (89.9-95.9)	5,113	86.1 (81.5-89.7)	5,118	93.4 (89.5-95.9)	4,072	82.5 (77.1-86.9)	4,505	95.8 (92.0-97.
Other, non-Hispanic	381	60.8 (42.3-76.7)	397	71.0 (51.6-84.9)	293	71.8 (47.1-88.0)	295	84.3 (54.6-96.0)	232	68.5 (39.6-87.8)	268	93.7 (66.5-99.
Age (years)		· · ·				· · ·				· · ·		
<20	674	66.4 (46.4-81.8)	737	93.7 (76.5-98.6)	1,081	76.2 (53.2-90.0)	1,153	88.2 (72.9-95.4)	612	55.3 (35.8-73.3)	654	77.8 (57.2-90.
20-29	14,929	71.3 (66.4-75.8)	16,952	90.0 (86.6-92.7)	14,521	72.1 (65.7-77.7)	15,976	85.8 (80.0-90.2)	13,332	71.1 (64.8-76.6)	14,498	84.1 (79.0-88.
30-39	33,031	82.1 (78.7-85.1)	34,248	89.2 (86.2-91.7)	31,234	84.2 (80.9-87.0)	31,907	90.8 (87.8-93.2)	35,723	81.8 (78.2-85.0)	39,266	92.5 (89.8-94.
40+	2,891	83.0 (70.4-90.9)	3,034	89.7 (79.4-95.1)	3,226	77.7 (65.7-86.4)	3,476	91.1 (82.4-95.8)	1,953	84.9 (71.5-92.6)	1,765	82.9 (64.1-92.
Education		· · ·				· · ·				· · ·		•
<high school<="" td=""><td>3,601</td><td>76.0 (66.7-83.3)</td><td>3,245</td><td>83.7 (74.2-90.2)</td><td>3,948</td><td>82.9 (73.2-89.6)</td><td>632</td><td>16.3 (9.8-25.8)</td><td>3,135</td><td>67.7 (57.2-76.7)</td><td>3,138</td><td>82.1 (73.7-88.</td></high>	3,601	76.0 (66.7-83.3)	3,245	83.7 (74.2-90.2)	3,948	82.9 (73.2-89.6)	632	16.3 (9.8-25.8)	3,135	67.7 (57.2-76.7)	3,138	82.1 (73.7-88.
High school diploma	6,966	72.6 (65.3-78.8)	7,598	90.7 (85.0-94.4)	6,574	69.2 (60.1-77.0)	779	9.3 (5.6-15.0)	6,191	64.5 (55.1-72.8)	7,145	80.9 (72.9-86.
Some college	10,609	67.4 (61.3-73.0)	12,724	85.8 (80.7-89.7)	8,899	69.7 (61.7-76.7)	2,106	14.2 (10.3-19.3)	9,344	72.1 (64.2-78.8)	10,408	87.9 (81.5-92.
College graduate	29,277	86.4 (82.9-89.3)	30,229	92.4 (89.4-94.6)	29,622	85.8 (82.3-88.8)	2,474	7.6 (5.4-10.6)	31,987	86.0 (82.5-88.9)	34,560	94.0 (91.4-95.
Insurance type		· · ·				· · ·				· · ·		•
Private	33,340	84.7 (81.3-87.6)	35,472	92.7 (90.0-94.8)	31,811	85.8 (82.2-88.8)	33,000	91.5 (88.3-93.9)	33,761	86.2 (82.8-89.0)	36,379	94.1 (91.7-95.
Medicaid	15,808	69.1 (64.5-73.4)	17,028	85.0 (81.0-88.2)	16,121	72.1 (66.7-76.9)	17,441	86.6 (81.9-90.2)	15,126	66.7 (61.0-71.9)	16,830	82.7 (77.8-86.
Other	1,319	74.6 (57.7-86.4)	1,332	82.7 (64.4-92.7)	804	64.2 (40.9-82.3)	749	67.5 (35.9-88.5)	1,439	74.1 (52.5-88.1)	1,332	74.7 (48.6-90.
Household poverty level		· · ·		· · · ·		• •				• •		
≤100% FPL	9,214	70.4 (64.4-75.7)	9,717	87.3 (83.1-90.7)	7,752	67.7 (59.7-74.8)	8,127	81.8 (73.4-87.9)	7,568	66.1 (58.2-73.2)	8,519	82.4 (75.7-87.
>100% FPL	40,356	80.7 (77.6-83.5)	43,336	90.0 (87.4-92.2)	39,178	83.1 (79.8-85.9)	40,756	90.9 (88.1-93.1)	41,587	81.7 (78.4-84.6)	45,257	91.8 (89.3-93.
Nativity		· · ·				· · ·				· · ·		
Non-US-born	15,321	81.2 (77.4-84.5)	14,400	87.6 (84.2-90.4)	17,185	80.0 (76.0-83.5)	16,659	87.6 (83.2-90.9)	16,020	77.5 (73.1-81.3)	15,868	85.4 (81.2-88.
US-born	36,181	77.3 (73.9-80.5)	40,546	90.2 (87.5-92.4)	32,877	79.6 (75.4-83.2)	35,852	90.0 (86.7-92.5)	35,599	78.9 (74.8-82.4)	40,315	91.4 (88.6-93.
Marital status		· · ·				· · ·				· · ·		•
Unmarried	14,656	70.1 (65.2-74.7)	16,691	88.7 (85.2-91.4)	13,015	67.9 (61.5-73.7)	14,413	83.7 (77.7-88.3)	13,867	67.1 (60.7-73.0)	16,138	85.3 (80.4-89.
Married	36,871	82.3 (79.1-85.2)	38,279	89.9 (87.1-92.2)	37,048	84.9 (81.8-87.6)	38,098	91.5 (88.7-93.6)	37,752	83.6 (80.4-86.3)	40,045	91.5 (88.9-93.
WIC participation		· /		, , , ,						,		•
No	36,979	81.9 (78.6-84.8)	39,885	91.2 (88.6-93.3)	35,664	83.8 (80.3-86.8)	37,088	90.9 (87.9-93.3)	38,377	82.4 (78.9-85.5)	41,944	92.5 (90.0-94.
Yes	14,300	70.7 (65.9-75.1)	14,994	85.5 (81.3-89.0)	14,304	71.3 (65.6-76.4)	15,310	85.4 (80.1-89.4)	13,009	68.4 (62.4-73.8)	14,102	82.5 (77.1-86.
Disability status		, , ,		· /								•
No	46,610	79.8 (77.0-82.4)	49,345	89.9 (87.7-91.8)	44,348	80.3 (77.1-83.1)	46,294	89.1 (86.3-91.3)	45,561	79.2 (76.0-82.1)	49,646	90.4 (88.0-92.
Yes	4,535	67.3 (58.0-75.4)	5,185	85.9 (76.6-91.9)	5,070	76.2 (65.1-84.6)	5,705	92.8 (82.9-97.2)	5,455	73.8 (63.5-82.0)	5,891	84.2 (75.0-90.
¹ n weighted to reflect birthir	na populatio						hs prior to					,

Table 58. Prevalence of being offered an HIV test and receiving an HIV test during pregnancy, by sociodemographic characteristics, MA PRAMS, 2019-2021

		20	-			-	20			-	21	
	Offe	red HIV test ³	Had	an HIV test⁴	Offe	red HIV test ³	Had	an HIV test ⁴	Offe	red HIV test ³	Had	an HIV test ⁴
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% Cl)
Total	58,393	87.6 (85.4-89.5)	31,894	47.8 (44.8-50.9)	53,903	84.1 (81.3-86.5)	32,037	50.0 (46.6-53.4)	55,513	83.3 (80.5-85.7)	33,233	49.9 (46.4-53.3
Race/ethnicity												
White, non-Hispanic	34,641	87.1 (83.6-89.9)	16,926	42.5 (37.9-47.3)	30,326	82.4 (77.8-86.2)	15,690	42.6 (37.4-48.1)	32,385	82.0 (77.6-85.7)	17,698	44.8 (39.6-50.1
Black, non-Hispanic	5,946	88.9 (84.0-92.5)	4,320	64.6 (59.0-69.9)	5,702	89.1 (85.2-92.1)	4,022	62.9 (57.4-68.0)	5,712	87.6 (83.2-90.9)	3,959	60.7 (54.8-66.3
Hispanic	11,664	89.5 (86.1-92.2)	7,601	58.3 (53.5-63.1)	11,835	86.9 (82.8-90.1)	8,645	63.5 (58.3-68.3)	11,674	85.1 (80.9-88.6)	7,982	58.2 (52.9-63.3
Asian, non-Hispanic	4,920	85.1 (80.8-88.6)	2,436	42.2 (36.8-47.7)	4,834	80.3 (75.4-84.5)	2,742	45.6 (39.9-51.3)	4,019	79.7 (74.1-84.4)	2,477	49.1 (42.8-55.5
Other, non-Hispanic	474	75.6 (57.1-87.9)	237	37.7 (22.0-56.5)	340	83.4 (57.8-94.9)	273	67.0 (41.1-85.5)	339	100 ()	214	63.0 (36.5-83.5
Age (years)												
<20	927	89.0 (70.5-96.5)	598	57.4 (37.9-74.9)	1,281	88.4 (72.5-95.7)	768	53.0 (32.7-72.4)	877	79.3 (61.8-90.0)	605	54.7 (36.3-71.9
20-29	18,528	86.8 (82.6-90.1)	10,988	51.5 (46.3-56.6)	16,957	81.0 (75.6-85.4)	10,830	51.7 (45.6-57.7)	16,162	84.7 (79.9-88.5)	10,238	53.7 (47.5-59.7
30-39	35,936	88.2 (85.3-90.5)	18,697	45.9 (41.8-50.0)	31,994	85.2 (81.6-88.2)	18,479	49.2 (44.7-53.7)	36,478	82.8 (79.2-86.0)	21,133	48.0 (43.7-52.4
40+	3,002	84.9 (72.6-92.2)	1,611	45.5 (32.7-59.0)	3,672	88.2 (78.5-93.8)	1,960	47.1 (34.9-59.6)	1,995	81.9 (64.7-91.8)	1,257	51.6 (35.1-67.7
Education		· · ·		· · ·						· · ·		· ·
<high school<="" td=""><td>4,512</td><td>88.6 (81.0-93.4)</td><td>2,872</td><td>56.4 (47.2-65.2)</td><td>4,216</td><td>85.1 (77.4-90.4)</td><td>2,967</td><td>59.8 (49.9-69.0)</td><td>3,874</td><td>81.9 (72.4-88.6)</td><td>2,795</td><td>59.1 (49.3-68.2</td></high>	4,512	88.6 (81.0-93.4)	2,872	56.4 (47.2-65.2)	4,216	85.1 (77.4-90.4)	2,967	59.8 (49.9-69.0)	3,874	81.9 (72.4-88.6)	2,795	59.1 (49.3-68.2
High school diploma	8,660	88.7 (83.4-92.5)	4,930	50.5 (43.3-57.7)	8,667	87.4 (79.4-92.5)	5,606	56.5 (47.4-65.2)	8,388	85.3 (76.9-91)	5,521	56.1 (47.1-64.8
Some college	13,872	87.4 (82.4-91.1)	8,759	55.2 (48.9-61.3)	11,115	84.4 (77.6-89.5)	6,819	51.8 (44.1-59.4)	11,067	84.6 (77.9-89.5)	7,485	57.2 (49.1-64.9
College graduate	29,728	87.0 (83.7-89.8)	14,628	42.8 (38.3-47.4)	28,725	82.6 (78.7-85.9)	15,849	45.6 (40.9-50.3)	30,977	82.4 (78.6-85.7)	16,660	44.3 (39.8-49.0
Insurance type		× 7		· · · · · ·						x x x		*
Private	33,883	85.3 (82.1-88.1)	16,955	42.7 (38.5-47.0)	30,304	80.9 (77.0-84.3)	16,118	43.0 (38.6-47.6)	31,868	80.8 (76.9-84.2)	17,800	45.1 (40.6-49.8
Medicaid	21,189	90.5 (87.4-92.9)	13,456	57.5 (52.8-62.0)	20,765	89.4 (85.4-92.5)	14,406	62.1 (56.6-67.2)	19,896	86.0 (81.6-89.5)	13,204	57.1 (51.5-62.4
Other	1,717	96.2 (88.7-98.8)	668	37.4 (22.6-55.1)	946	72.0 (43.5-89.6)	554	42.1 (23.5-63.3)	1,832	94.4 (83.5-98.2)	906	46.7 (27.8-66.5
Household poverty level		\$ 7		· · · · · ·						x x x		*
≤100% FPL	12,634	95.8 (93.7-97.2)	8,419	63.8 (58.0-69.3)	10,284	86.9 (79.8-91.8)	6,658	56.3 (48.7-63.6)	10,382	88.6 (83.2-92.4)	6,802	58.1 (50.6-65.2
>100% FPL	43,285	85.8 (83.0-88.2)	21,758	43.1 (39.5-46.8)	39,480	83.0 (79.8-85.9)	22,230	46.8 (42.7-50.8)	42,219	82.3 (78.9-85.2)	24,126	47.0 (43.0-51.1
Nativity		, , , , , , , , , , , , , , , , , , ,		· · · · · ·						, , , , , , , , , , , , , , , , , , ,		*
Non-US-born	17,313	89.2 (86.3-91.5)	10,680	55.0 (50.7-59.2)	19,462	87.8 (84.6-90.5)	13,093	59.1 (54.5-63.5)	18,270	86.1 (82.6-89.0)	11,854	55.8 (51.1-60.5
US-born	41,055	86.9 (84.0-89.3)	21,189	44.8 (40.9-48.8)	34,442	82.1 (78.2-85.4)	18,944	45.1 (40.6-49.8)	37,242	82.0 (78.2-85.2)	21,379	47.1 (42.5-51.6
Marital status				· · · · · ·		,		,				,
Unmarried	18,887	88.7 (84.8-91.7)	12,578	59.1 (53.9-64.1)	16,841	85.2 (80.0-89.3)	12,005	60.8 (54.5-66.7)	17,934	85.5 (80.3-89.5)	12,613	60.1 (53.7-66.2
Married	39,506	87.0 (84.3-89.4)	19,316	42.6 (38.8-46.4)	37,063	83.5 (80.2-86.4)	20,032	45.2 (41.1-49.2)	37,579	82.3 (78.9-85.2)	20,620	45.1 (41.1-49.2
WIC participation		, , , , , , , , , , , , , , , , , , ,		· · · · · ·						, , , , , , , , , , , , , , , , , , ,		*
No	39,072	86.2 (83.2-88.7)	19,681	43.4 (39.5-47.4)	35,039	81.8 (78.1-85.0)	19,000	44.4 (40.2-48.6)	38,605	82.2 (78.7-85.2)	21,947	46.7 (42.5-51.0
Yes	18,893	91.8 (88.8-94.0)	12,054	58.5 (53.7-63.2)	18,640	89.3 (85.6-92.1)	12,855	61.6 (55.8-67.0)	16,740	86.1 (81.4-89.7)	11,166	57.4 (51.5-63.1
Disability status		· /		· /		· · · · · /		· · · · · /	-	· /		``
No	51,849	87.8 (85.4-89.8)	28,677	48.6 (45.3-51.9)	47,348	84.2 (81.3-86.7)	28,080	49.9 (46.3-53.6)	48,208	83.2 (80.2-85.8)	28,665	49.5 (45.7-53.2
Yes	6,119	89.6 (83.2-93.7)	2,926	42.8 (34.1-52.1)	5,665	83.5 (72.9-90.5)	3,144	46.3 (35.9-57.1)	6,450	84.2 (75.1-90.3)	3,877	50.6 (40.8-60.4

		2019		2020	2021			
Reasons	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% Cl)		
Not offered test	7,783	39.7 (34.1-45.5)	10,027	51.4 (44.9-57.8)	11,029	54.5 (48.1-60.7)		
Didn't want to have test	1,872	9.5 (6.6-13.5)	1,750	9.0 (6.0-13.2)	2,554	12.6 (9.0-17.4)		
Already knew HIV status	7,500	37.9 (32.3-43.9)	5,224	26.7 (21.4-32.8)	5,833	28.8 (23.4-34.8)		
Didn't think was at risk for HIV	6,308	31.8 (26.5-37.7)	5,975	30.6 (25.1-36.6)	7,572	37.4 (31.4-43.8)		
Didn't want people to think was at risk for HIV	In	sufficient data ²	Insu	ufficient data ²	0	0 ()		
Afraid of getting the results	In	sufficient data ²	Insเ	ufficient data ²	Insuff	ficient data ²		
Was tested before this pregnancy	5,771	29.1 (24.1-34.8)	4,040	20.7 (16.1-26.4)	4,020	19.8 (15.3-25.3)		
Other reason	834	4.2 (2.4-7.4)	851	4.4 (2.3-8.2)	637	3.1 (1.6-6.3)		

T-LISED D dente did not heve en LUV/test during the sin **.** ------. . .ا...

	1	20	19			20	20			20	21	
	cesa	rean delivery	vagi	nal delivery	cesa	rean delivery	vagi	nal delivery	cesar	ean delivery	vagi	nal delivery
Characteristic	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)
Total	21,330	32.1 (29.2-35.1)	43,834	66.0 (62.9-68.9)	19,908	31.1 (28.1-34.4)	42,584	66.6 (63.3-69.8)	22,965	34.8 (31.6-38.2)	82,539	64.5 (62.1-66.8
Race/ethnicity												
White, non-Hispanic	12,313	31.1 (26.8-35.8)	26,635	67.4 (62.7-71.7)	11,503	31.3 (26.5-36.4)	24,704	67.1 (61.9-72.0)	14,282	36.2 (31.3-41.5)	24,517	62.2 (57.0-67.2
Black, non-Hispanic	2,356	35.2 (30.3-40.6)	4,146	62.0 (56.6-67.2)	2,020	31.6 (26.9-36.6)	4,186	65.4 (60.2-70.3)	2,438	37.5 (31.9-43.5)	3,742	57.6 (51.6-63.4
Hispanic	4,156	31.9 (27.6-36.6)	8,592	66.0 (61.2-70.4)	4,286	31.5 (26.8-36.6)	8,812	64.7 (59.5-69.5)	4,165	31.0 (26.3-36.1)	8,628	64.2 (59.0-69.1
Asian, non-Hispanic	1,909	33.0 (28.0-38.5)	3,682	63.7 (58.2-68.9)	1,825	30.3 (25.4-35.8)	4,084	67.9 (62.3-72.9)	1,542	30.6 (25.0-36.8)	3,373	66.9 (60.7-72.6
Other, non-Hispanic	263	41.9 (25.6-60.2)	364	58.1 (39.8-74.4)	146	35.7 (16.3-61.3)	262	64.3 (38.7-83.7)	Insu	ifficient data ²	232	68.5 (39.6-87.8
Age (years)								/				
<20	Inst	ufficient data ²	916	88.1 (73.3-95.2)	178	12.3 (3.4-35.6)	1,271	87.7 (64.4-96.6)	Insu	ifficient data ²	950	88.2 (72.1-95.6
20-29	5,468	25.6 (21.5-30.3)	15,657	73.3 (68.7-77.5)	4,778	22.9 (18.5-28.1)	15,723	75.4 (70.2-80.0)	4,990	26.5 (21.3-32.4)	13,387	71.0 (65.0-76.4
30-39	13,981	34.5 (30.7-38.6)	25,504	62.9 (58.8-66.9)	12,877	34.4 (30.2-38.8)	23,516	62.8 (58.3-67.0)	16,404	37.6 (33.5-42.0)	26,121	59.9 (55.6-64.2
40+	1,756	49.6 (36.5-62.9)	1,757	49.7 (36.5-62.9)	2,076	49.8 (37.4-62.3)	2,074	49.8 (37.3-62.3)	1,444	59.3 (42.6-74.0)	827	33.9 (20.6-50.5
Education	, í				,		,	, , ,				`
<high school<="" td=""><td>1,389</td><td>27.3 (19.9-36.1)</td><td>3,539</td><td>69.5 (60.6-77.1)</td><td>1,383</td><td>27.9 (20.0-37.5)</td><td>3,438</td><td>69.4 (59.6-77.6)</td><td>1,231</td><td>26.4 (18.2-36.7)</td><td>3,150</td><td>67.5 (57.4-76.3</td></high>	1,389	27.3 (19.9-36.1)	3,539	69.5 (60.6-77.1)	1,383	27.9 (20.0-37.5)	3,438	69.4 (59.6-77.6)	1,231	26.4 (18.2-36.7)	3,150	67.5 (57.4-76.3
High school diploma	3,183	32.6 (26.2-39.7)	6,282	64.4 (57.2-70.9)	2,421	24.4 (17.9-32.3)	7,334	73.9 (66.0-80.6)	3,284	33.6 (25.6-42.6)	6,158	63.0 (54.0-71.2
Some college	5,441	34.3 (28.5-40.5)	10,334	65.1 (58.9-70.9)	4,690	35.6 (28.6-43.3)	7,996	60.7 (53.0-68.0)	4,464	34.8 (27.4-43.0)	8,185	63.8 (55.6-71.3
College graduate	10,806	31.6 (27.5-36.1)	22,657	66.3 (61.8-70.6)	11,202	32.2 (28.0-36.8)	22,994	66.1 (61.5-70.4)	13,533	36.0 (31.7-40.6)	23,169	61.7 (57.0-66.1
Insurance type				(-)								•
Private	12,656	32.1 (28.1-36.3)	26,154	66.3 (62.0-70.3)	11,798	31.6 (27.5-35.9)	25,084	67.1 (62.7-71.3)	11,798	31.6 (27.5-35.9)	24,225	61.6 (57.0-66.1
Medicaid	7,716	32.9 (28.7-37.5)	15,096	64.5 (59.9-68.8)	6,838	29.6 (24.9-34.8)	15,489	67.0 (61.7-71.9)	6,838	29.6 (24.9-34.8)	14,432	63.5 (58.0-68.7
Other	679	38.0 (23.2-55.5)	1,088	61.0 (43.6-76)	534	40.6 (22.0-62.5)	721	54.9 (33.4-74.7)	534	40.6 (22.0-62.5)	978	54.9 (34.4-73.9
Household poverty level		i										·
≤100% FPL	4,719	35.8 (30.0-42.0)	8,108	61.5 (55.3-67.3)	3,529	30.1 (23.6-37.5)	7,684	65.5 (58.1-72.2)	3,338	29.3 (23.1-36.4)	7,399	65.0 (57.7-71.6
>100% FPL	15,800	31.5 (28.1-35.0)	33,643	67.0 (63.4-70.4)	15,305	32.3 (28.6-36.2)	31,355	66.1 (62.2-69.8)	18,385	36.1 (32.2-40.1)	31,631	62.1 (58.1-66.0
Nativity				· · · · ·				, , , , , , , , , , , , , , , , , , ,				•
Non-US-born	6,457	33.3 (29.5-37.3)	12,547	64.6 (60.6-68.5)	7,332	33.1 (28.9-37.6)	13,980	63.1 (58.5-67.4)	7,175	34.2 (29.7-39.0)	13,069	62.3 (57.5-66.9
US-born	14,873	31.6 (28.0-35.6)	31,262	66.5 (62.5-70.2)	12,576	30.1 (26.1-34.5)	28,605	68.5 (64.0-72.6)	15,790	35.1 (30.8-39.6)	28,216	62.7 (58.2-67.1
Marital status				, , , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·						•
Unmarried	6,876	32.3 (27.6-37.4)	13,978	65.6 (60.5-70.4)	5,748	29.2 (24.0-35.1)	13,202	67.2 (61.2-72.7)	7,307	35.1 (29.2-41.4)	12,942	62.1 (55.7-68.1
Married	14,454	32.0 (28.5-35.7)	29,856	66.1 (62.4-69.7)	14,161	32.0 (28.3-35.9)	29,383	66.4 (62.4-70.1)	15,657	34.7 (30.9-38.8)	28,344	62.8 (58.7-66.8
Disability status		,		, , , , , , , , , , , , , , , , , , , ,	•	· · · · · · · · · · · · · · · · · · ·				,		``````````````````````````````````````
No	18,897	32.1 (29.1-35.3)	38,827	66.0 (62.8-69.1)	17,454	31.1 (27.8-34.6)	37,298	66.6 (63.0-69.9)	19,852	34.6 (31.1-38.3)	35,925	62.7 (59.0-66.3
Yes	2.234	32.7 (24.4-42.3)	4,448	65.1 (55.6-73.5)	2,099	30.9 (22.6-40.7)	4,552	67.1 (57.2-75.7)	2,807	36.9 (27.9-47.0)	4,652	61.2 (51.2-70.4

Table 61. Prevalence of postpartum visit by sociodemographic characteristics, MA PRAMS, 2019-2021

			Pos	tpartum Visit		
		2019		2020		2021
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)
Total	61,153	92.9 (91.1-94.3)	56,635	90.3 (88.2-92.1)	60,645	92.6 (90.7-94.1)
Race/ethnicity						
White, non-Hispanic	37,520	94.8 (92.1-96.6)	34,384	94.4 (91.0-96.6)	37,338	95.5 (92.6-97.3)
Black, non-Hispanic	5,692	89.1 (83.9-92.8)	5,143	83.8 (79.4-87.3)	5,552	89.1 (84.6-92.4)
Hispanic	11,321	88.7 (85.2-91.5)	10,834	83.5 (79.1-87.1)	11,280	84.9 (80.8-88.3)
Asian, non-Hispanic	5,343	93.4 (90.0-95.8)	5,308	89.0 (84.6-92.3)	4,807	95.4 (91.7-97.5)
Other, non-Hispanic	567	90.5 (74.3-96.9)	358	95.7 (75.2-99.4)	250	82.4 (49.7-95.7)
Age (years)						
<20	871	83.7 (65.2-93.4)	1,116	80.4 (59.8-91.9)	886	82.2 (65.2-92.0)
20-29	18,601	89.1 (85.4-92.0)	17,731	86.6 (81.7-90.3)	16,773	90.7 (86.8-93.5)
30-39	38,328	94.8 (92.7-96.4)	34,025	92.6 (90.1-94.5)	40,935	94.1 (91.8-95.8)
40+	3,352	95.2 (90.7-97.6)	3,763	91.5 (85.7-95.1)	2,052	84.2 (68.8-92.8)
Education						
<high school<="" td=""><td>3,677</td><td>76.9 (67.3-84.3)</td><td>3,650</td><td>78.7 (69.2-85.8)</td><td>3,609</td><td>81.2 (73.6-87.0)</td></high>	3,677	76.9 (67.3-84.3)	3,650	78.7 (69.2-85.8)	3,609	81.2 (73.6-87.0)
High school diploma	8,361	87.3 (81.1-91.6)	7,657	80.5 (73.0-86.3)	8,146	85.9 (79.0-90.8)
Some college	14,555	92.6 (88.7-95.2)	11,316	86.8 (79.9-91.6)	11,557	89.8 (83.9-93.7)
College graduate	32,887	96.8 (94.7-98.1)	32,988	96.1 (94.2-97.4)	36,152	96.8 (94.7-98.1)
Insurance type						
Private	38,351	97.0 (95.2-98.2)	35,179	94.8 (92.5-96.5)	38,092	97.6 (95.7-98.6)
Medicaid	19,946	87.4 (83.7-90.3)	19,064	85.0 (80.9-88.3)	18,841	84.1 (79.7-87.7)
Other	1,586	88.9 (69.8-96.5)	1,132	88.1 (74.7-94.9)	1,801	93.9 (84.8-97.7)
Household poverty level						
≤100% FPL	11,174	85.1 (79.8-89.2)	8,808	75.2 (68.0-81.2)	9,441	82.7 (76.4-87.6)
>100% FPL	47,934	95.5 (93.7-96.8)	44,639	94.8 (92.7-96.3)	48,666	95.5 (93.6-96.9)
Nativity						
Non-US-born	17,026	90.3 (87.4-92.6)	18,195	85.1 (81.7-88.0)	18,176	87.5 (84.0-90.4)
US-born	44,102	93.9 (91.6-95.6)	38,440	93.0 (90.1-95.1)	42,469	94.9 (92.6-96.5)
Marital status						
Unmarried	18,412	87.6 (83.6-90.7)	16,331	85.2 (80.1-89.2)	17,635	86.6 (82.0-90.1)
Married	42,740	95.4 (93.6-96.7)	40,304	92.5 (90.3-94.2)	43,011	95.3 (93.4-96.6)
WIC participation						
No	43,035	95.6 (93.7-96.9)	39,442	93.2 (90.7-95.0)	44,421	95.4 (93.3-96.8)
Yes	17,787	87.1 (83.2-90.2)	17,111	84.4 (79.9-88.0)	16,089	85.6 (81.3-89.1)
Disability status						
No	54,710	93.0 (91.2-94.5)	50,755	91.1 (88.9-92.9)	54,009	94.2 (92.6-95.5)
Yes	6,176	91.2 (84.2-95.3)	5,574	83.5 (74.6-89.7)	6,257	81.7 (71.9-88.6)

		Sterilization ³		LARC⁴		er hormonal Itraception⁵		non-hormonal traception ⁶		Postpartum ntraception ⁷
Characteristic	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)
Total	5,707	8.7 (7.1-10.7)	12,937	19.7 (17.4-22.3)	14,961	22.8 (20.3-25.6)	13,724	20.9 (18.5-23.6)	18,245	27.8 (25.1-30.8
Race/ethnicity										
White, non-Hispanic	3,170	8.0 (5.8-11.1)	7,013	17.8 (14.4-21.8)	9,061	23.0 (19.2-27.3)	8,617	21.9 (18.2-26.1)	11,522	29.3 (25.1-33.8
Black, non-Hispanic	451	7.1 (4.0-12.2)	1,396	22.0 (17.9-26.7)	1,505	23.7 (19.2-28.9)	1,332	21.0 (16.5-26.3)	1,662	26.2 (21.8-31.2
Hispanic	1,464	11.5 (8.8-15.0)	3,482	27.3 (23.2-32.0)	3,523	27.7 (23.5-32.3)	1,761	13.8 (10.8-17.5)	2,502	19.7 (16.1-23.8
Asian, non-Hispanic	357	6.3 (4.0-9.8)	762	13.4 (10.0-17.7)	572	10.0 (7.1-14.0)	1,867	32.7 (27.7-38.2)	2,144	37.6 (32.4-43.1
Other, non-Hispanic	lr	nsufficient data ²	136	21.6 (10.1-40.2)	186	29.7 (15.8-48.7)	110	17.6 (7.6-35.7)	153	24.4 (12.1-42.9
Age (years)										
<20	0	0 ()	377	36.2 (19.3-57.4)	431	41.4 (23.6-61.8)	99	9.5 (2.8-27.7)	134	12.9 (4.8-30.3
20-29	1,169	5.6 (3.8-8.2)	5,042	24.1 (20.0-28.8)	5,213	25.0 (20.9-29.6)	4,149	19.9 (15.9-24.5)	5,306	25.4 (21.1-30.3
30-39	3,922	9.8 (7.6-12.5)	7,136	17.8 (14.8-21.2)	8,840	22.0 (18.7-25.7)	8,901	22.2 (19.0-25.7)	11,362	28.3 (24.7-32.2
40+	616	17.6 (8.9-31.9)	383	11.0 (5.7-20.0)	476	13.6 (6.6-25.9)	575	16.5 (8.9-28.5)	1,443	41.3 (28.7-55.2
Education	1	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · ·	, i i i i i i i i i i i i i i i i i i i	,
<high school<="" td=""><td>512</td><td>10.5 (6.6-16.4)</td><td>1,274</td><td>26.2 (19.2-34.7)</td><td>1,521</td><td>31.3 (23.5-40.3)</td><td>484</td><td>10.0 (5.5-17.3)</td><td>1,068</td><td>22.0 (14.7-31.5</td></high>	512	10.5 (6.6-16.4)	1,274	26.2 (19.2-34.7)	1,521	31.3 (23.5-40.3)	484	10.0 (5.5-17.3)	1,068	22.0 (14.7-31.5
High school diploma	987	10.4 (6.7-15.6)	2,652	27.8 (21.5-35.1)	2,324	24.4 (18.5-31.4)	1,469	15.4 (11.0-21.2)	2,099	22.0 (16.6-28.7
Some college	2,007	13.0 (9.1-18.3)	2,869	18.5 (14.3-23.6)	3,451	22.3 (17.7-27.7)	3,023	19.5 (15.0-25.1)	4,121	26.6 (21.3-32.7
College graduate	1,809	5.3 (3.6-7.9)	6,016	17.7 (14.4-21.6)	7,347	21.7 (18.0-25.9)	8,309	24.5 (20.8-28.6)	10,424	30.7 (26.6-35.2
Insurance type		, , , , , , , , , , , , , , , , , , ,	, i	· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	,	· · · · ·	, i i i i i i i i i i i i i i i i i i i	,
Private	3,027	7.7 (5.6-10.5)	6,638	16.8 (13.8-20.4)	8,704	22.1 (18.6-25.9)	9,878	25.0 (21.5-29.0)	11,188	28.4 (24.6-32.4
Medicaid	2,605	11.5 (8.9-14.8)	5,721	25.3 (21.5-29.5)	5,596	24.7 (20.9-29.0)	2,949	13.0 (10.3-16.3)	5,774	25.5 (21.4-30.1
Other	l Ir	nsufficient data ²	131	7.4 (3.2-16.2)	417	23.4 (12.4-39.6)	540	30.3 (17.0-47.8)	638	35.7 (20.0-55.3
Household poverty level						· · · · · · · · · · · · · · · · · · ·		\/_		Υ
≤100% FPL	1,766	13.7 (9.8-18.7)	3,410	26.4 (21.6-31.9)	2,950	22.8 (18.1-28.4)	1,422	11.0 (8.2-14.7)	3,367	26.1 (20.8-32.1
>100% FPL	3,741	7.5 (5.7-9.7)	9,167	18.3 (15.5-21.4)	11,111	22.1 (19.2-25.4)	11,810	23.5 (20.5-26.8)	14,347	28.6 (25.3-32.1
Nativity	Í	, , , , , , , , , , , , , , , , , , ,	, i	· · · · ·	,	· · · · · · · · · · · · · · · · · · ·	<i>.</i>	· · · · · ·	, i i i i i i i i i i i i i i i i i i i	,
Non-US-born	1,516	8.1 (6.1-10.6)	4,401	23.4 (19.8-27.3)	3,820	20.3 (17.2-23.8)	4,321	23.0 (19.6-26.7)	4,767	25.3 (21.7-29.4
US-born	4,191	9.0 (6.9-11.6)	8,536	18.3 (15.4-21.6)	11,141	23.8 (20.6-27.5)	9,379	20.1 (17.0-23.5)	13,479	28.8 (25.3-32.7
Marital status	Í	· · · · · · · · · · · · · · · · · · ·	, i	· · · · ·	,	· · · · · · · · · · · · · · · · · · ·	<i>.</i>	· · · · · ·	, i i i i i i i i i i i i i i i i i i i	,
Unmarried	1,882	9.0 (6.5-12.5)	4,602	22.1 (18.3-26.4)	5,011	24.0 (19.9-28.7)	3,125	15.0 (11.5-19.3)	6,224	29.9 (25.2-35.0
Married	3,825	8.6 (6.6-11.1)	8,335	18.6 (15.8-21.9)	9,950	22.2 (19.1-25.7)	10,599	23.7 (20.6-27.1)	12,021	26.9 (23.5-30.5
WIC participation	Í	· · · · · · · · · · · · · · · · · · ·	, i	· · · · ·	,	· · · · · · · · · · · · · · · · · · ·	<i>.</i>	· · · · · ·	, i i i i i i i i i i i i i i i i i i i	,
No	3,295	7.3 (5.4-9.8)	7,840	17.4 (14.6-20.7)	9,616	21.4 (18.3-24.9)	10,933	24.3 (21.1-27.9)	13,270	29.5 (26.0-33.3
Yes	2,285	11.3 (8.6-14.6)	5,097	25.2 (21.3-29.4)	5,251	25.9 (21.8-30.4)	2,727	13.5 (10.6-16.9)	4,905	24.2 (20.1-28.9
Disability status	,	- (- ,		-,		, í		,	
No	5,320	9.1 (7.3-11.2)	11,675	19.9 (17.4-22.7)	12,852	21.9 (19.3-24.8)	12,417	21.2 (18.6-24.0)	16,331	27.9 (24.9-31.0
Yes	387	5.8 (2.8-11.6)	1,261	18.8 (12.7-26.9)	1.990	29.6 (21.7-39.0)	1,243	18.5 (12.3-27.0)	1,831	27.3 (19.9-36.1

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Sterilization includes tubal ligation and vasectomy; ⁴LARC: Long-acting reversible contraception includes intrauterine devices and implants; ⁵Other hormonal contraception: includes shots, pills, patch, and vaginal ring; ⁶Other non-hormonal contraception includes condoms, diaphragm, withdrawal, natural family planning including rhythm method; ⁷No contraception includes people who reported not having sex

	Ster	rilization ³		LARC ^₄		Other hormonal contraception⁵		non-hormonal traception ⁶	No Postpar	No Postpartum Contraception ⁷	
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentage (95% CI)	n ¹	Percentag (95% C	
Total	4,863	7.7 (6.1-9.8)	9,843	15.6 (13.4-18.2)	14,686	23.3 (20.6-26.4)	16,708	26.6 (23.6-29.8)	16,800	26.7 (23.7-29.9	
Race/ethnicity											
White, non-Hispanic	2,427	6.6 (4.3-10.1)	4,430	12.1 (8.9-16.2)	8,896	24.3 (20.0-29.1)	11,128	30.4 (25.7-35.6)	9,725	26.6 (22.0-31.7	
Black, non-Hispanic	307	5.0 (3.3-7.5)	1,292	21.1 (17.0-25.9)	1,263	20.6 (16.5-25.4)	1,512	24.7 (19.8-30.3)	1,751	28.6 (23.4-34.4	
Hispanic	1,821	14 (10.7-18.2)	3,353	25.8 (21.3-30.9)	3,128	24.1 (19.9-28.9)	1,526	11.8 (8.8-15.5)	3,150	24.3 (20.0-29.1	
Asian, non-Hispanic	253	4.2 (2.4-7.5)	512	8.6 (5.8-12.5)	875	14.7 (11.0-19.3)	2,215	37.2 (31.9-42.9)	2,096	35.2 (30.0-40.9	
Other, non-Hispanic	Insuff	icient data ²	125	33.6 (15.3-58.5)	Insu	fficient data ²	Insu	fficient data ²	Insu	ufficient data ²	
Age (years)											
<20	0	0 ()	251	18.1 (8.3-35.2)	575	41.4 (22.7-62.9)	238	17.2 (5.4-42.8)	324	23.3 (10.1-45.2	
20-29	852	4.2 (2.3-7.6)	4,461	21.9 (17.2-27.4)	5,400	26.5 (21.6-32.1)	4,388	21.5 (16.8-27.1)	5,268	25.9 (20.6-31.9	
30-39	3,174	8.6 (6.4-11.4)	4,744	12.8 (10.2-15.9)	8,155	22.0 (18.5-26.1)	10,963	29.6 (25.6-34.0)	9,988	27.0 (23.1-31.2	
40+	837	20.3 (11.8- 32.6)	386	9.4 (4.3-19.3)	556	13.5 (6.7-25.4)	1,118	27.1 (16.9-40.5)	1,221	29.6 (19.7-42.0	
Education											
<high school<="" td=""><td>496</td><td>10.5 (5.8-18.2)</td><td>1,319</td><td>27.8 (20.1-37.2)</td><td>1,386</td><td>29.2 (20.9-39.2)</td><td>384</td><td>8.1 (4.0-15.7)</td><td>1,153</td><td>24.3 (15.8-35.5</td></high>	496	10.5 (5.8-18.2)	1,319	27.8 (20.1-37.2)	1,386	29.2 (20.9-39.2)	384	8.1 (4.0-15.7)	1,153	24.3 (15.8-35.5	
High school diploma	973	10.2 (5.9-17.1)	2,570	27.0 (19.4-36.4)	2,294	24.1 (17.8-31.9)	1,245	13.1 (7.9-20.9)	2,420	25.5 (18.2-34.5	
Some college	1,451	11.2 (7.1-17.1)	1,943	15.0 (10.8-20.4)	3,425	26.4 (20.2-33.8)	3,219	24.8 (18.6-32.3)	2,921	22.5 (16.4-30.2	
College graduate	1,921	5.6 (3.7-8.2)	3,876	11.2 (8.6-14.5)	7,243	21.0 (17.3-25.2)	11,381	32.9 (28.6-37.6)	10,135	29.3 (25.3-33.7	
Insurance type											
Private	1,999	5.4 (3.7-7.7)	4,020	10.8 (8.2-14.0)	8,831	23.7 (19.9-27.9)	11,725	31.4 (27.3-35.9)	10,731	28.8 (24.8-33.1	
Medicaid	2,554	11.4 (8.1-15.8)	5,081	22.7 (18.6-27.3)	5,469	24.4 (20.1-29.3)	4,295	19.2 (14.9-24.2)	5,024	22.4 (18.0-27.5	
Other	205	15.9 (5.4-38.7)	221	17.2 (6.3-39)	289	22.5 (10.5-41.7)	Insu	fficient data ²	480	37.4 (17.3-63.0	
Household poverty level											
≤100% FPL	1,184	10.1 (6.3-15.8)	2,846	24.3 (18.7-30.9)	2,837	24.2 (18.7-30.7)	1,797	15.3 (10.8-21.3)	3,044	26.0 (19.5-33.8	
>100% FPL	3,401	7.2 (5.3-9.6)	5,984	12.6 (10.2-15.6)	11,119	23.5 (20.2-27.2)	14,336	30.3 (26.6-34.2)	12,491	26.4 (23.0-30.1	
Nativity											
Non-US-born	1,770	8.2 (5.9-11.3)	4,826	22.4 (18.7-26.5)	4,192	19.4 (16.0-23.5)	5,076	23.6 (20.1-27.4)	5,688	26.4 (22.5-30.7	
US-born	3,092	7.5 (5.4-10.3)	5,016	12.1 (9.4-15.5)	10,494	25.4 (21.6-29.6)	11,632	28.1 (24.0-32.6)	11,113	26.9 (22.9-31.3	
Marital status											
Unmarried	1,679	8.8 (5.6-13.4)	3,904	20.4 (16.0-25.5)	5,345	27.9 (22.7-33.7)	3,212	16.7 (12.4-22.2)	5,039	26.3 (20.9-32.4	
Married	3,184	7.3 (5.5-9.6)	5,939	13.6 (11.0-16.6)	9,341	21.4 (18.1-25.0)	13,496	30.9 (27.1-34.9)	11,762	26.9 (23.4-30.7	
WIC participation		t								· · ·	
No	2,617	6.1 (4.5-8.4)	5,553	13.0 (10.4-16.2)	9,434	22.1 (18.7-26.0)	13,134	30.8 (26.9-34.9)	11,914	27.9 (24.3-31.9	
Yes	2,245	11.1 (7.8-15.8)	4,260	21.2 (17.1-25.9)	5,253	26.1 (21.5-31.2)	3,532	17.5 (13.4-22.6)	4,850	24.1 (19.2-29.8	
Disability status		· · · · ·		, , ,		· · · ·		· · /		•	
No	4,289	7.7 (5.9-9.9)	8,764	15.7 (13.2-18.4)	13,506	24.1 (21.1-27.4)	15,037	26.9 (23.7-30.3)	14,375	25.7 (22.6-20.0	
Yes	573	8.7 (4.7-15.5)	983	19.4 (9.2-23.1)	1,083	16.4 (10.4-24.8)	1,638	24.8 (15.9-36.4)	2,332	35.3 (25.2-46.9	

implants; "Other hormonal contraception: includes shots, pills, patch, and we method; "No contraception includes people who reported not having sex

	1			aception by soc		er hormonal		non-hormonal		Postpartum
	S	terilization ³		LARC ⁴		ntraception ⁵	contraception ⁶		Contraception ⁷	
Characteristic	n ¹	Percentage (95% CI)	n¹	Percentage (95% Cl)	n¹	Percentage (95% Cl)	n¹	Percentage (95% CI)	n¹	Percentage (95% Cl)
Total	5,840	9.0 (7.0-11.3)	12,579	19.3 (16.7-22.1)	14,825	22.7 (19.9-25.8)	13,859	21.3 (18.6-24.2)	18,116	27.8 (24.8-31.0)
Race/ethnicity										
White, non-Hispanic	4,028	10.4 (7.5-14.2)	6,388	16.4 (12.7-20.9)	8,993	23.1 (18.9-28.0)	8,430	21.7 (17.7-26.2)	11,060	28.4 (23.9-33.4)
Black, non-Hispanic	360	5.8 (3.5-9.5)	1,226	19.8 (15.5-25.0)	1,454	23.5 (18.7-29.1)	1,127	18.2 (13.6-24.0)	2,021	32.7 (27.4-38.4)
Hispanic	1,164	8.8 (6.3-12.1)	4,106	31.0 (26.2-36.2)	3,501	26.4 (21.9-31.5)	2,007	15.2 (11.6-19.5)	2,465	18.6 (14.8-23.1)
Asian, non-Hispanic	108	2.1 (1.0-4.6)	645	12.8 (9.0-17.9)	555	11.0 (7.5-15.8)	1,775	35.2 (29.4-41.5)	1,958	38.8 (32.9-45.1)
Other, non-Hispanic	Ins	ufficient data ²	Ins	ufficient data ²	Insu	ufficient data ²	Insu	ufficient data ²	Insu	ifficient data ²
Age (years)										
<20	0	0 ()	604	58 (38.8-75)	257	24.7 (12.4-43.3)	Insu	ufficient data ²	144	13.9 (5.7-29.9)
20-29	1,373	7.5 (4.4-12.2)	4,203	22.8 (18.2-28.3)	5,217	28.3 (23.0-34.3)	3,751	20.4 (15.7-25.9)	3,882	21.1 (16.3-26.7)
30-39	3,798	8.7 (6.5-11.7)	7,607	17.5 (14.4-21.2)	8,872	20.4 (17.0-24.3)	9,641	22.2 (18.8-26.0)	13,497	31.1 (27.2-35.3)
40+	669	28.6 (15-47.7)	165	7.1 (3.0-15.8)	479	20.5 (9.4-39.1)	431	18.4 (8.6-35.3)	593	25.4 (14.5-40.6)
Education										
<high school<="" td=""><td>281</td><td>6.4 (3.4-11.9)</td><td>1,336</td><td>30.5 (21.6-41.2)</td><td>1,090</td><td>24.9 (17.9-33.5)</td><td>650</td><td>14.9 (9.2-23.1)</td><td>1,020</td><td>23.3 (15.3-33.8)</td></high>	281	6.4 (3.4-11.9)	1,336	30.5 (21.6-41.2)	1,090	24.9 (17.9-33.5)	650	14.9 (9.2-23.1)	1,020	23.3 (15.3-33.8)
High school diploma	1,247	13.1 (8.0-20.8)	2,884	30.3 (22.8-39)	2,118	22.3 (15.6-30.6)	1,331	14.0 (8.6-21.9)	1,938	20.4 (13.8-29.0)
Some college	1,558	12.2 (7.4-19.3)	2,835	22.1 (16.2-29.5)	3,148	24.5 (17.9-32.7)	1,890	14.7 (10.3-20.6)	3,394	26.5 (20.1-34.0)
College graduate	2,562	6.9 (4.8-9.9)	5,350	14.4 (11.4-18.1)	8,086	21.8 (18.1-26.0)	9,775	26.3 (22.5-30.6)	11,345	30.6 (26.4-35.0)
Insurance type										
Private	3,682	9.5 (6.9-12.8)	5,573	14.3 (11.3-17.9)	8,279	21.3 (17.6-25.5)	9,772	25.1 (21.4-29.3)	11,603	29.8 (25.8-34.2)
Medicaid	2,102	9.4 (6.5-13.5)	5,997	26.9 (22.2-32.0)	5,585	25.0 (20.4-30.3)	3,211	14.4 (10.9-18.7)	5,431	24.3 (19.7-29.6)
Other	Ins	ufficient data ²	351	18.1 (6.6-40.8)	571	29.4 (15.1-49.4)	474	24.4 (10.9-45.9)	492	25.3 (11.2-47.7)
Household poverty level										
≤100% FPL	1,175	10.3 (6.3-16.4)	3,322	29.2 (22.8-36.5)	2,653	23.3 (17.8-29.9)	1,468	12.9 (8.6-18.9)	2,771	24.3 (18.2-31.8)
>100% FPL	4,568	9.0 (6.8-11.8)	8,651	17.0 (14.2-20.3)	10,853	21.3 (18.1-24.9)	12,151	23.9 (20.7-27.4)	14,670	28.8 (25.3-32.6)
Nativity										
Non-US-born	1,755	8.5 (5.8-12.2)	5,162	25.0 (21.0-29.4)	4,012	19.4 (16.0-23.4)	4,260	20.6 (17.2-24.6)	5,481	26.5 (22.6-30.8)
US-born	4,084	9.2 (6.8-12.3)	7,417	16.7 (13.5-20.4)	10,813	24.3 (20.5-28.5)	9,599	21.5 (18.0-25.5)	12,634	28.4 (24.4-32.7)
Marital status				· · ·						· · · ·
Unmarried	1,787	8.8 (5.6-13.6)	5,792	28.5 (23.0-34.8)	5,417	26.7 (21.3-32.8)	2,161	10.7 (7.4-15.1)	5,133	25.3 (19.9-31.5)
Married	4,052	9.0 (6.8-11.9)	6,787	15.1 (12.5-18.2)	9,408	20.9 (17.7-24.6)	11,698	26.0 (22.6-29.8)	12,983	28.9 (25.3-32.8)
WIC participation		* *				i				
No	4,095	8.8 (6.6-11.8)	7,414	16.0 (13.0-19.4)	9,785	21.1 (17.7-24.9)	11,035	23.8 (20.4-27.5)	14,064	30.3 (26.6-34.4)
Yes	1,745	9.3 (6.1-14.0)	5,165	27.6 (22.8-33.1)	5,040	27.0 (22.0-32.5)	2,772	14.8 (11.1-19.6)	3,969	21.2 (16.6-26.7)
Disability status		. ,						. , ,		,
No	4,882	8.5 (6.6-11.0)	11,405	19.9 (17.1-23.1)	12,874	22.5 (19.5-25.9)	12,437	21.8 (18.9-24.9)	15,582	27.3 (24.0-30.7)
Yes	957	12.6 (6.9-21.7)	1,018	13.4 (8.1-21.1)	1,850	24.3 (16.5-34.2)	1,337	17.5 (11.2-26.3)	2,461	32.3 (24.0-41.9)

¹n weighted to reflect birthing population; ²Insufficient data to report (0<n<5); ³Sterilization includes tubal ligation and vasectomy; ⁴LARC: Long-acting reversible contraception includes intrauterine devices and implants; ⁵Other hormonal contraception: includes shots, pills, patch, and vaginal ring; ⁶Other non-hormonal contraception includes condoms, diaphragm, withdrawal, natural family planning including rhythm method; ⁷No contraception includes people who reported not having sex

Table 65. Sample Size, Re	esponse Rates,	and Total Births	, MA PRAMS	6, 2007–2021
Data Years Presented in this Report	Sample Size	Number of Respondents	Weighted Response Rate	Total Massachusetts Resident Births ¹
2007	2,343	1,489	69.8	77,934
2008	2,354	1,508	71.5	76,969
2009	2,179	1,388	67.9	74,966
2010	2,448	1,514	66.1	72,835
2011	2,506	1,603	68.5	73,169
2012 (Feb. 1 – Dec. 31)	2,495	1,539	67.5	66,853
2013	2,585	1,473	62.0	71,618
2014	2,847	1,546	60.0	71,867
2015	2,328	1,330	62.5	71,484
2016	2,403	1,311	59.9	71,319
2017	2,442	1,423	61.9	70,704
2018	2,450	1,436	62.4	67,838
2019	2,947	1,697	61.2	69,117
2020	2,492	1,400	59.6	66,442
2021	2,501	1,321	57.0	69,127
Source: 2007–2021 Massachus Analysis, Massachusetts Depar	tment of Public He	alth; Note: Estimate	ed PRAMS cove	erage is 99.8%

¹Massachusetts Births, 2007–2021, Registry of Vital Records and Statistics, Massachusetts Department of Public Health. The 2021 total births are based on preliminary 2021 data as of June 1, 2022

Characteristic		2019		2020		2021
	n²	Percentage (95% CI)	n²	Percentage (95% CI)	n²	Percentage (95% CI)
Total	66,685		64,121		66,660	
Race/ethnicity						
White, non-Hispanic	39,780	60.4 (59.3-61.4)	36,808	58.2 (57.1-59.3)	39,501	60.7 (59.7-61.6
Black, non-Hispanic	6,686	10.1 (9.5-10.9)	6,399	10.1 (9.5-10.7)	6,523	10.0 (9.5-10.6
Hispanic	13,028	19.8 (19.1-20.5)	13,623	21.5 (20.8-22.3)	13,710	21.1 (20.5-21.6
Asian, non-Hispanic	5,778	8.8 (8.3-9.2)	6,016	9.5 (9.1-10.0)	5,040	7.7 (7.3-8.2
Other, non-Hispanic	627	1.0 (0.7-1.4)	407	0.6 (0.4-1.0)	339	0.5 (0.3-0.9
Age (years)						
<20	1,041	1.6 (1.0-2.3)	1,449	2.3 (1.5-3.4)	1,107	1.7 (1.1-2.4
20-29	21,349	32 (29.3-34.8)	20,946	32.7 (29.6-35.9)	19,080	28.6 (25.8-31.7
30-39	40,757	61.1 (58.2-64.0)	37,561	58.6 (55.2-61.9)	44,036	66.1 (62.9-69.1
40+	3,538	5.3 (4.1-6.9)	4,165	6.5 (5.1-8.3)	2,437	3.7 (2.6-5.1
Education						
<high school<="" td=""><td>5,093</td><td>7.9 (6.6-9.3)</td><td>4,957</td><td>7.9 (6.5-9.5)</td><td>4,730</td><td>7.3 (6.0-8.7</td></high>	5,093	7.9 (6.6-9.3)	4,957	7.9 (6.5-9.5)	4,730	7.3 (6.0-8.7
High school diploma	9,759	15 (13.1-17.2)	9,920	15.8 (13.4-18.5)	9,837	15.1 (12.8-17.7
Some college	15,874	24.5 (21.9-27.2)	13,167	21.0 (18.2-24.0)	13,087	20.1 (17.4-23.1
College graduate	34,151	52.6 (49.7-55.6)	34,775	55.4 (52.1-58.6)	37,571	57.6 (54.4-60.8
Insurance type						
Private	39,705	61.2 (58.4-63.9)	37,472	60.4 (57.3-63.5)	39,435	61.1 (57.9-64.2
Medicaid/MassHealth	23,421	36.1 (33.4-38.8)	23,214	37.4 (34.4-40.5)	23,142	35.9 (32.9-39.0
All other	1,784	2.7 (1.9-3.9)	1,314	2.1 (1.4-3.3)	1,942	3.0 (2.0-4.5
Household poverty level						
≤100% FPL	13,186	20.7 (18.6-23)	11,828	19.9 (17.5-22.6)	11,715	18.6 (16.2-21.2
>100% FPL	50,461	79.3 (77.0-81.4)	47,541	80.1 (77.4-82.5)	51,318	81.4 (78.8-83.8
Nativity						
Non-US-born	19,409	29.1 (27.1-31.2)	22,156	34.6 (32.1-37.1)	21,229	31.8 (29.5-34.3
US-born	47,251	70.9 (68.8-72.9)	41,965	65.4 (62.9-67.9)	45,431	68.2 (65.7-70.5
Marital status						
Unmarried	21,298	31.9 (29.3-34.7)	19,758	30.8 (27.8-34.0)	20,975	31.5 (28.3-34.8
Married	45,387	68.1 (65.3-70.7)	44,363	69.2 (66.0-72.2)	45,685	68.5 (65.2-71.7
WIC participation						
No	45,345	68.8 (66.2-71.2)	42,838	67.2 (64.2-70.1)	46,974	70.7 (67.9-73.4
Yes	20,592	31.2 (28.8-33.8)	20,876	32.8 (29.9-35.8)	19,453	29.3 (26.6-32.1
Disability status		. ,				
No	59,058	89.6 (87.7-91.3)	56,245	89.2 (86.8-91.3)	57,959	88.3 (86.0-90.3
Yes	6,830	10.4 (8.7-12.3)	6,786	10.8 (8.7-13.2)	7,663	11.7 (9.7-14.0

		2019							
Characteristics	Number of respondents	Weighted N	PRAMS percent (%)	Statewide percent from MA birth certificate (%)					
Total	1,697	66,685							
Race/ethnicity ¹									
White, non-Hispanic	559	39,780	60.4	57.1					
Black, non-Hispanic	374	6,686	10.1	10.4					
Hispanic	418	13,028	19.8	20.4					
Asian, non-Hispanic	305	5,778	8.8	9.3					
Other, non-Hispanic	28	627	1.0	1.2					
Age (years) ¹									
<20	29	1,041	1.6	2.3					
20-29	571	21,349	32.0	33.1					
30-39	1,001	40,757	61.1	59.6					
40+	96	3,538	5.3	5.0					
Education ¹				510					
<high school<="" td=""><td>155</td><td>5,093</td><td>7.9</td><td>8.0</td></high>	155	5,093	7.9	8.0					
High school diploma	272	9,759	15.0	15.7					
Some college	436	15,874	24.5	23.6					
College graduate	798	34,151	52.6	50.0					
Insurance type ¹									
Private	897	39,705	61.2	63.8					
Medicaid	689	23,421	36.1	33.1					
Other	53	1,784	2.7	3.0					
Household poverty level ²									
≤100% FPL	396	13,186	20.7						
>100% FPL	1,195	50,461	79.3						
Nativity ¹									
Non-US-born	760	19,409	29.1	33.3					
US-born	936	47,251	70.9	66.6					
Marital status ¹									
Unmarried	574	21,298	31.9	32.7					
Married	1,123	45,387	68.1	67.3					
WIC participation ¹									
No	1,042	45,345	68.8	71.1					
Yes	634	20,592	31.2	28.9					
Disability status ²									
No	1,483	59,058	89.6						
Yes	192	6,830	10.4						
Preferred Language ¹									
English	1,422	56,563	88.7	86.3					
Spanish	160	4,855	7.6	6.3					
Other	84	2,371	3.7	7.5					
Parity ¹									
No previous live birth	736	29,113	44.1	44.3					
Previous live birth	935	36,848	55.9	55.7					

			2020	
Characteristics	Number of respondents	Weighted N	PRAMS percent (%)	Statewide percent from MA birth certificate (%)
Total	1,400	64,121		
Race/ethnicity ¹				
White, non-Hispanic	354	36,808	58.2	56.2
Black, non-Hispanic	355	6,399	10.1	10.3
Hispanic	372	13,623	21.5	21.0
Asian, non-Hispanic	294	6,016	9.5	9.7
Other, non-Hispanic	17	407	9.5	1.2
Age (years) ¹				
<20	29	1,449	2.3	2.1
20-29	428	20,946	32.7	31.9
30-39	842	37,561	58.6	60.9
40+	101	4,165	6.5	5.2
Education ¹				
<high school<="" td=""><td>135</td><td>4,957</td><td>7.9</td><td>7.8</td></high>	135	4,957	7.9	7.8
High school diploma	220	9,920	15.8	16.5
Some college	309	13,167	21.0	23.4
College graduate	709	34,775	55.4	49.9
Insurance type ¹				
Private	714	37,472	60.4	64.2
Medicaid	598	23,214	37.4	33.3
Other	38	1,314	2.1	2.5
Household poverty level ²		1,011	2.1	2.0
≤100% FPL	315	11,828	19.9	
>100% FPL	961	47,541	80.1	
Nativity ¹	501	1,011	00.1	
Non-US-born	758	22,156	34.6	31.0
US-born	642	41,965	65.4	69.0
Marital status ¹	042	41,303	00.4	03.0
Unmarried	442	19,758	30.8	33.6
Married	958	44,363	69.2	66.4
WIC participation ¹	930	44,505	09.2	00.4
No	842	42,838	67.2	71.6
Yes	546	20,876	32.8	28.4
Disability status ²	540	20,070	32.0	20.4
	1 010	EC 045	00.0	
No	1,213	56,245	89.2	•
Yes Destament Language 1	154	6,786	10.8	•
Preferred Language ¹		E 4000	00.0	
English	1151	54296	88.3	86.3
Spanish	143	5090	8.3	6.3
Other	76	2110	3.4	7.4
Parity ¹			·	
No previous live birth	623	29,160	45.9	44.9
Previous live birth ¹ variable from MA certificate of live	756	34,367	54.1	55.1

			2021	
Characteristics	Number of respondents	Weighted N	PRAMS percent (%)	Statewide percent from MA birth certificate (%)
Total	1,321	66,660		
Race/ethnicity ¹				
White, non-Hispanic	376	39,501	60.7	57.7
Black, non-Hispanic	313	6,523	10.0	10.1
Hispanic	359	13,710	21.1	20.9
Asian, non-Hispanic	248	5,040	7.7	8.8
Other, non-Hispanic	14	339	0.5	1.1
Age (years) ¹				
<20	32	1,107	1.7	1.9
20-29	397	19,080	28.6	30.6
30-39	833	44,036	66.1	62.4
40+	59	2,437	3.7	5.2
Education ¹		,		
<high school<="" td=""><td>130</td><td>4,730</td><td>7.3</td><td>7.2</td></high>	130	4,730	7.3	7.2
High school diploma	186	9,837	15.1	15.6
Some college	282	13,087	20.1	22.6
College graduate	700	37,571	57.6	52.3
Insurance type ¹		01,011	0.10	02.0
Private	707	39,435	61.1	67.0
Medicaid	530	23,142	35.9	30.5
Other	37	1,942	3.0	2.5
Household poverty level ²	01	1,042	0.0	2.0
≤100% FPL	275	11,715	18.6	
>100% FPL	949	51,318	81.4	
Nativity ¹	040	51,510		
Non-US-born	665	21,229	31.8	29.4
US-born	656	45,431	68.2	70.6
Marital status ¹	0.00	40,401	00.2	70.0
Unmarried	425	20,975	31.5	33.3
Married	896	45,685	68.5	66.7
WIC participation ¹	090	40,000	00.5	00.7
No	844	46,974	70.7	73.1
Yes	469	19,453	29.3	26.9
Disability status ²	409	19,403	29.3	20.9
	4 400	57,959	00.0	
No Yes	<u> </u>	57,959 7,663	88.3 11.7	
	109	7,003	11.7	-
Preferred Language ¹	4 004		00.7	07.0
English	1,081	55,205	88.7	87.2
Spanish	148	5,290	8.5	5.9
Other	51	1,736	2.8	7.0
Parity ¹				
No previous live birth	581	29,347	44.5	43.8
Previous live birth ¹ variable from MA certificate of live	722	36,610	55.5	56.2

MA PRAMS 20			1			People 2030 Objectives, and
Title V ¹	Healthy P	eople 2030 ²		PF	RAMS prev	valence
Performance Measures (PM)	Objective	Target	Survey Question	2019	2020	2021
		E	FFECTS OF RAG	CISM		
State measure related to			Stress due to racism	5.6% ³	7.3% ³	8.3% ³
eliminating institutional and structural	2030-No		Felt upset due to racism	6.4% ³	7.5% ³	8.3% ³
racism in internal DPH programs, policies, and practices	Objective ²		Physical symptoms due to racism	2.6% ³	3.5% ³	3.7% ³
		EM	OTIONAL WELL	NESS		
No Title V PM	2030-No Objective ²		Experienced depressive symptoms (always/often) in the postpartum period	10.2% ³	10.0% ³	10.4% ³
Increase the percent of birthing people who report being screened for depression by a health care worker during postpartum visits	Increase the proportion of birthing people who get screened for postpartum depression	In developmental phase	Had screening for depression after pregnancy	87.8% ³	84.2% ³	88.3% ³
	1		SUBSTANCE U	SE		
No Title V PM	Increase abstinence from cigarette smoking among pregnant people	2030-95.7%	Abstained from cigarette smoking in the three months prior to pregnancy	88.4% ³	90.0% ³	91.8% ³
Decrease the number of people who	Increase abstinence from	2030-95.7%	Reported abstaining from cigarette	95.5% ³	96.1% ³	96.3% ³

Massachusetts Title V Performance Measures for Selected Title V Priorities, Healthy People 2030 Objectives, and MA PRAMS 2019-2021

MA PRAMS 20						
Title V ¹	Healthy P	eople 2030 ²		PF	RAMS prev	valence
Performance Measures (PM)	Objective	Target	Survey Question	2019	2020	2021
smoke during pregnancy (NPM 14a- but MA did not select this)	cigarette smoking among pregnant people		smoking in the last three months of pregnancy			
No Title V PM	2030-No Objective ²		Reported alcohol consumption in the three months prior to pregnancy	65.0% ³	64.4% ³	65.2% ³
			BREASTFEEDI	NG		
Increase the percent of infants who are ever breastfed (NPM 4a) ¹	2030-No Objective ²		Breastfed ever	91.8%	91.0%	91.3%
			SAFE SLEEP)		
Increase the percent of infants placed to sleep on their backs (supine) (NPM 5) ¹	Increase the proportion of infants who are put to sleep on their backs	2030- 88.9%	Placed infant to sleep on back	87.5% ³	85.5% ³	85.7% ³
			ORAL HEALT	H		
Increase the percent of birthing people who have a dental visit during pregnancy (NPM 13) ¹	2030-No Objective ²		Had teeth cleaned by a dentist or dental hygienist during pregnancy	58.8% ³	51.1% ³	52.7% ³
	1	PRE		EALTH		
No Title V PM	Reduce the proportion of unintended (mistimed or	2030-36.5%	Didn't want to be pregnant then or any time later	20.9% ³	17.0% ³	17.2% ³

Title V ¹	Healthy P	eople 2030 ²		PF	RAMS prev	valence
Performance Measures (PM)	Objective	Target	Survey Question	2019	2020	2021
	unwanted) pregnancies					
No Title V PM	Increase the proportion of people able to give birth of childbearing age who get enough folic acid	86.2%	Report of daily multivitamin, prenatal vitamin, or folic acid vitamin intake	47.5%	49.2%	52.1%
			PRENATAL CA	RE		
No Title V PM	Increase the proportion of pregnant people who receive 1 dose of Tdap vaccine during pregnancy	In developmental phase	Reported receiving Tdap during pregnancy	89.6%	89.2%	89.7%
		POSTPA	RTUM HEALTH/	BEHAVIO	OR	
No Title V PM	Increase the proportion of those at risk for unintended pregnancy who use effective birth control	2030-65.1%	Reported using a most effective or moderately effective contraception method postpartum ⁴	51.5%	47.0%	50.8%
¹ This Title V P (NPM in paren		sure is both a Sta	ate Performance	Measure a	and a Natio	onal Performance Measure
						ed. <i>No Objective</i> indicates th hat this target has yet to be
³ Significant va	riation in prevale	ence across race a	and ethnic catego	ories.		

PRAMS Sampling Methodology

The MA PRAMS is an ongoing, population-based surveillance system designed to identify and monitor selected attitudes, experiences and behaviors that occur before, during and after pregnancy. The PRAMS survey consists of three types of questions. All surveys include a required set of questions ("Core" questions), which allow for multi-state analyses. Each state can select additional questions from a CDC-approved-questions list ("Standard" questions) or can create questions tailored to meet its needs ("State-developed" questions). The MA PRAMS survey is available on the MA **PRAMS** website. The survey was administered in English and Spanish only.

PRAMS survey participants were sampled from a frame of eligible birth certificates which included all live-born infants of Massachusetts resident birthing people, delivered in the state, for whom a birth certificate was available. Based on CDC's PRAMS protocol, stillbirths, fetal deaths, induced abortions, and multiple births with quadruplets or more were excluded from the sampling frame.

Since 2007, Massachusetts has used a stratified sampling methodology, sampling disproportionately from four racial and Hispanic ethnic groups: (1) White non-Hispanic; (2) Black non-Hispanic; (3) Hispanic; and (4) Other, non-Hispanic. All but White non-Hispanic birthing people were oversampled to improve precision in examining disparities by race and ethnicity. For oversampling purposes, the category of Other, non-Hispanic includes all racial and ethnic groups besides White, Black, and Hispanic. Similar to previous reports, in the 2019-2021 report, Massachusetts separates Asian non-Hispanics from the "Other, non-Hispanic" category for analytical purposes. Therefore, the "Other, non-Hispanic" group has a small sample size which resulted in having prevalence estimates with wider 95% confidence limits (95% CL) and the findings in this group should be interpreted with caution. Disability status was ascertained by participants' response to the PRAMS question: "Are you limited in any way in any activities because of physical, mental, or emotional problems?" Additional demographic information was obtained from the birth file, including the birthing person's education, age, marital status, parity, and nativity.

About three percent of Massachusetts birthing people with a live birth in our study period were sampled and received up to three mailed paper surveys. Birthing people who did not respond to the survey after the third mailing were contacted by telephone. The survey data were weighted using selected demographics to account for non-response and adjusted for sampling probabilities and coverage to represent the Massachusetts birth population in 2019-2021.

Analyses for the MA PRAMS 2019-2021 report accounted for the stratified sampling method and included the final survey weights. SAS v9.4 and SUDAAN v11.0 were used to calculate prevalence and bivariate statistics. The 95% CLs are included whenever possible in this report. When comparing estimates, if the 95% CLs do not overlap, we consider that there is a statistically significant difference.

Limitations

The data presented in this report are generalizable only to pregnancies resulting in a live birth of singletons or multiples of fewer than four, to Massachusetts residents who gave birth in the state.

The PRAMS survey is currently only administered in English and Spanish. This might present a limitation in collecting data from birthing people with limited proficiency in either of these languages.

Because PRAMS is based on self-reported information, there is the potential for misclassification error. Bias may occur if some groups of birthing people recall experiences more or less accurately than others.

Income data were collected; however, about seven percent of respondents declined to report income, and analyses involving household poverty could not include these respondents. In general, income data tend to be underreported on surveys.

In addition, the PRAMS survey did not collect information on gender identity or sexual orientation.

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