

Pre-pregnancy STI Counseling and HIV Testing Among Married Women: PRAMS 2016-2019

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Background

- Cases of chlamydia, gonorrhea, and syphilis have reached an all-time high.
- Increasing cases of congenital syphilis mirror increasing rates of syphilis among women.
- STIs prevention should start before conception by counseling all women and identifying risks. HIV testing should be routine regardless of risks.
- Rate of pre-pregnancy STI screening among married women who have recently given birth is unknown.

Objective

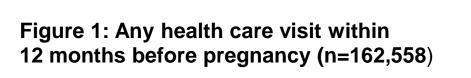
- To examine health care visit practices among women before pregnancy and compare pre-pregnancy STI counseling and HIV testing rates across the US among women who have recently given birth.
- Compare STI counseling and HIV testing rates among married and unmarried women before pregnancy.
- Identify characteristics of women who have missed STI counseling and HIV testing before pregnancy.
- We hypothesize that married women are less likely to receive STI counseling and HIV testing than unmarried women.

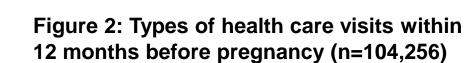
Method

- Utilized data from the Pregnancy Risk Assessment Monitoring System (PRAMS) 2016-2019, a population-based survey of postpartum women across 43 states, District of Columbia, New York City, and Puerto Rico.
- Exposure: Marital status: obtained from birth certificate records.
- Outcome: During any of your health care visits in the 12 months before you got pregnant, did a doctor, nurse, or other health care worker do any of the following things? Yes or No.
- STI Counseling: Talk to me about sexually transmitted infections such as chlamydia, gonorrhea, or syphilis
- HIV Testing: Test me for HIV (the virus that causes AIDS).
- Multivariable logistic regression analysis was performed, adjusting for age, race, Hispanic ethnicity, education, insurance, income, and previous live birth
- Accounted for weighting and complex survey design.
- Our analytic sample consisted of n=104,256 women with any health care visit after excluding those with missing information for marital status, STI counseling, and HIV testing.

Results

 Among women who had recently given birth (n=162,558), only 66% had any health care visits within 12 months before pregnancy and were most likely to see an ob-gyn for a check-up (Figure 1 and 2).





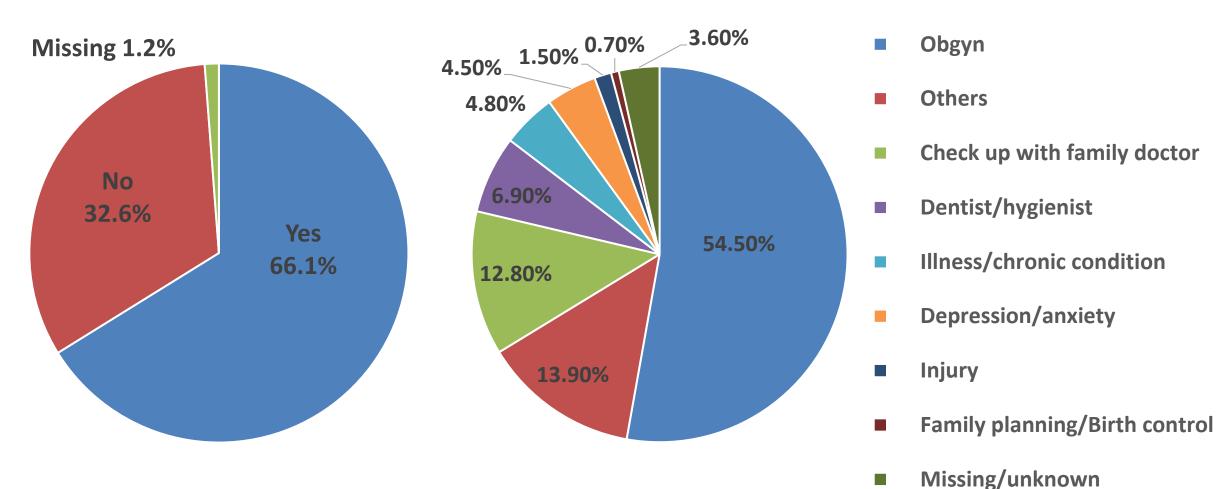
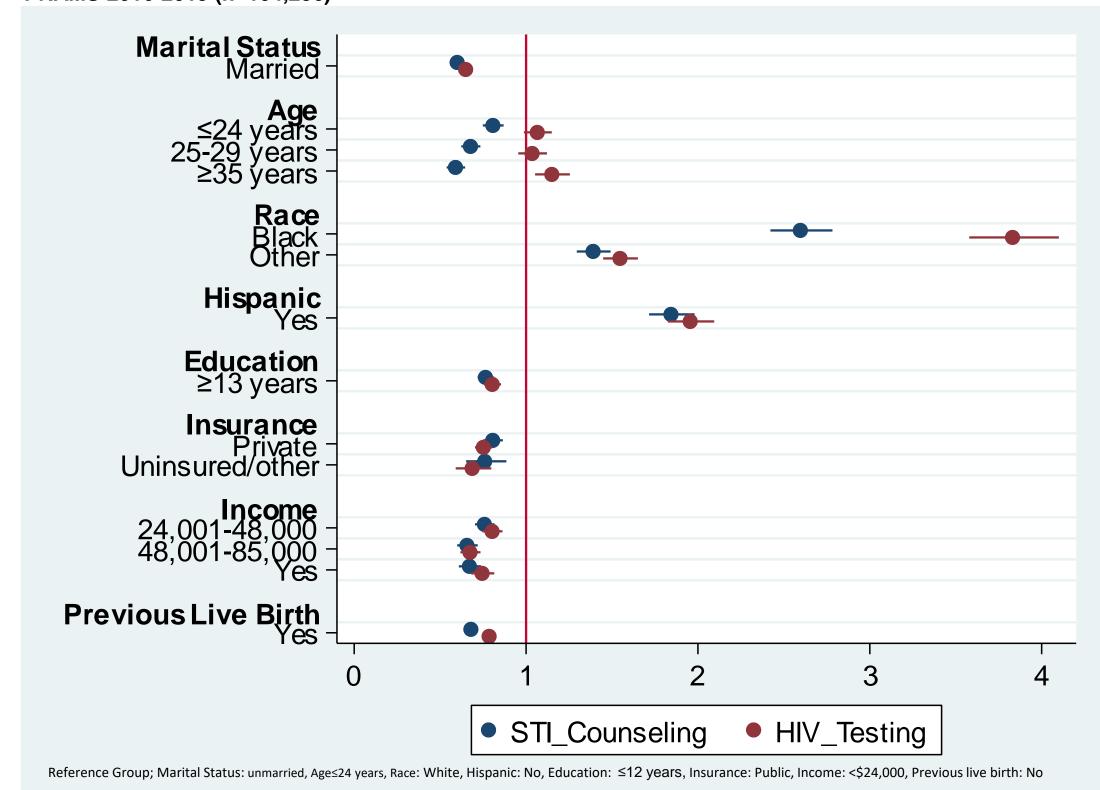


Table 1: STI counseling and HIV testing based on marital status (n=104 256)

| Table 1. 311 Counseling and the testing based on marital status (n=104,230) | | | |
|---|-----|------------------|------------------|
| | | Married | Not Married |
| | | 68.6% (n=68,938) | 31.4% (n=35,318) |
| | | Weighted% (n) | Weighted% (n) |
| STI Counseling | No | 82.5% (55,785) | 56.1% (19,503) |
| | Yes | 17.5% (13,153) | 43.9% (15,815) |
| HIV Testing | No | 76.6% (52,133) | 50.9% (17,771) |
| | Yes | 23.4% (16,805) | 49.1% (17,547) |

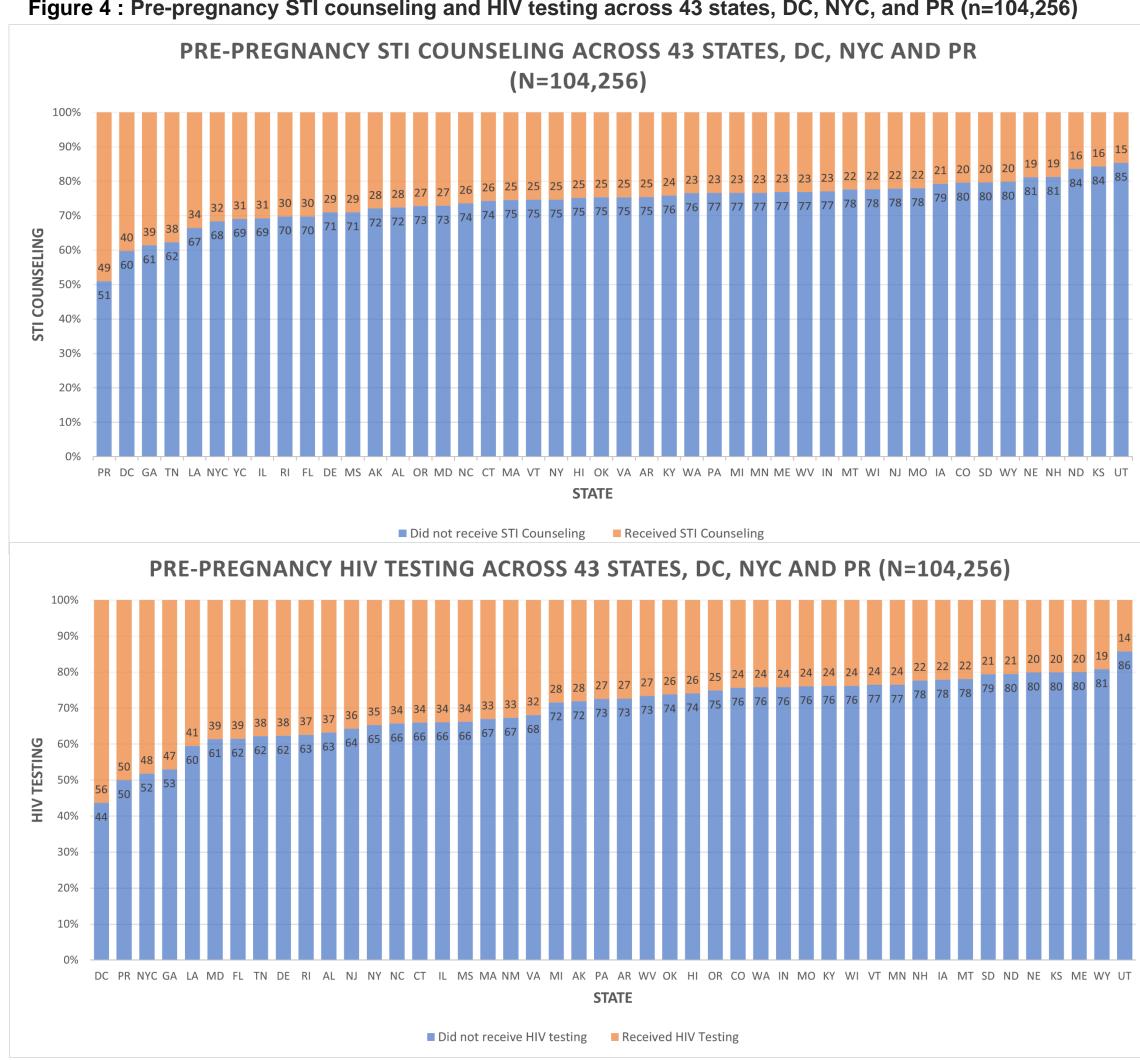
Figure 3: Adjusted odds of receiving pre-pregnancy STI counseling and HIV testing among recent mothers, PRAMS 2016-2019 (n=104,256)



- Among those with any health care visit, approximately 70% of women reported never having received STI counseling or HIV testing before pregnancy. STI screening rates were stratified by marital status (Table 1).
- Married women were less likely to receive STI counseling (OR 0.6: 95% CI 0.56, 0.64) or receive HIV testing (OR 0.65: 95% CI 0.61, 0.69) before pregnancy compared to unmarried women after adjusting for age, race, Hispanic ethnicity, education, insurance, income, and previous live birth (Figure 3).

- Other risk factors for not receiving STI counseling and HIV testing included being older, having higher years of education, private insurance, higher income, and having a previous live birth.
- In contrast, Black and Hispanic women were more likely to receive STI counseling (OR 2.59: 95% CI 2.42, 2.78), (OR 1.84: 95% CI 1.72, 1.98) and HIV testing (OR 3.83: 95% CI 3.58, 4.10), (OR 1.95: 95% CI 1.45, 1.65) compared to White women.
- There was notable variability in STI counseling and HIV testing rates across states. DC and PR had the highest and UT had the lowest rates of prepregnancy STI counseling and HIV testing (Figure 4).
- Inversely, PR had the lowest, and UT had the highest rate of married women.

Figure 4: Pre-pregnancy STI counseling and HIV testing across 43 states, DC, NYC, and PR (n=104,256)



Conclusion

- Married women were less likely to receive pre-pregnancy STI counseling and HIV testing than unmarried women.
- Our study highlights the lack of preconception care among women who recently gave birth.
- Demographic factors, including marital status, race, and ethnicity affect a woman's likelihood of receiving STI screening.
- Selective STI counseling and HIV testing creates gaps and missed opportunities to address STIs early before pregnancy.
- Thus, universal screening should be adopted for all women regardless of their preconceived risk or assumptions.