2015-04-29

Pregnancy Intention in Relation to Nonplanning Impulsivity

Prachi Godiwala  
*University of Massachusetts Medical School*

*Et al.*

Let us know how access to this document benefits you.  
Follow this and additional works at: https://escholarship.umassmed.edu/ssp

Part of the Behavior and Behavior Mechanisms Commons, Obstetrics and Gynecology Commons, and the Women's Health Commons

Repository Citation  
https://escholarship.umassmed.edu/ssp/240

This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in Senior Scholars Program by an authorized administrator of eScholarship@UMMS. For more information, please contact Lisa.Palmer@umassmed.edu.
Introduction
Half of pregnancies in the United States are unintended.

We examine a novel risk factor for unintended pregnancies, impulsivity.

We hypothesize that women with higher nonplanning impulsivity will be more likely to have an unplanned pregnancy.

Methods
The parent study was a prospective cohort study of 125 pregnant women examining the association between impulsivity and weight gain during pregnancy. At an in-person study visit, women completed self-report measures via a secure web form.

The 15-item Barratt Impulsiveness Scale (BIS-15) measures impulsivity using subjective statements about the respondent's behavior with 4 response options: rarely/never, occasionally, often, and almost always/always. Three subscales with 5 questions each measure attention, motor, and nonplanning impulsivity. We categorized women as being less impulsive (subscale score of 5-10) versus more impulsive (11-20). We chose this cutoff as a score of 10 indicates responses of "never/rarely" or "occasionally", representing lower impulsivity.

Pregnancy intention was measured by asking women "When you got pregnant, were you trying to get pregnant?" (yes or no).

Results

- Cohort included 116 women; 59% non-Hispanic White; average age of 29.1 (SD: 4.7) years; average gestational age 24.9 (SD: 6.6) weeks at enrollment

- The majority of women were aged 30-34 (44%), of normal weight (53%), married (59%), highly educated (34%), had no difficulty paying for basics (65%) and multigravid (65%)

- 34% reported that the current pregnancy was unplanned

- 10% of women had high motor impulsivity, 21% high attention impulsivity, and 32% high nonplanning impulsivity

- Women who were aged 18-24, obese, less educated, not married, of a lower socioeconomic status, and multigravid were more likely to have higher nonplanning impulsivity

- 51% with high nonplanning impulsivity reported unplanned pregnancy compared to 25% (low nonplanning impulsivity)

- Women with high nonplanning impulsivity had 3.53 times the odds of unplanned pregnancy compared to women with low nonplanning impulsivity (adjusted for other 2 subscales and confounders; 95% CI: 1.23-10.14)

- Neither motor nor attention impulsivity was associated with pregnancy intention

Unplanned Pregnancy in Relation to Impulsivity

- Women with higher levels of nonplanning impulsivity are at higher risk of having unplanned pregnancies

- The 5-item nonplanning subscale of the BIS-15 may help to identify women with high nonplanning impulsivity clinically; Women could complete this brief measure prior to office visits, and these scores could direct contraception counseling

- Contraception that requires little maintenance and no decision-making at the time of sexual encounters, such as long-acting reversible contraceptives (LARCs), may potentially lower unplanned pregnancy rates among more impulsive women

- Further research should focus on creating a framework to identify these women, implementing a screening tool in the clinical setting, and to explore whether increasing LARC use in this population can lower unplanned pregnancy rates

Conclusions

- Women with higher levels of nonplanning impulsivity are at higher risk of having unplanned pregnancies