Analysis of condom use at last sex and sexual debut using the National Survey of Family Growth, Cycle 6

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Significance of Study

HIV/AIDS is still a growing problem

25% of HIV diagnosis in women, 2005

Gender roles and condoms

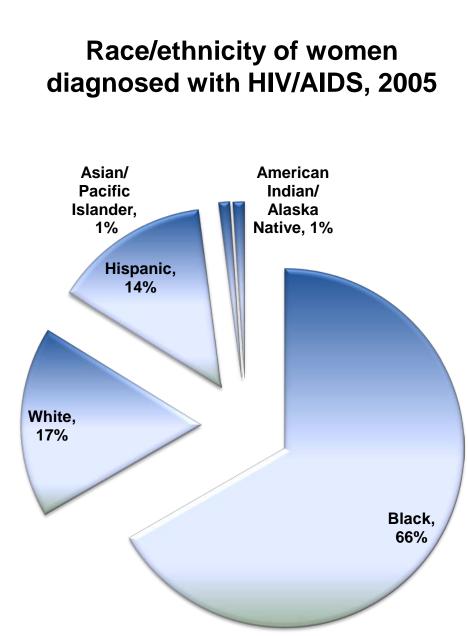
Women are less likely than men to carry condoms and more uncomfortable discussing condoms with partners

Race matters

Highest HIV incidence is among Black women A study found being white, female, and intoxicated at last sex lowered the odds of using condoms at most recent sex

National Survey of Family Growth, Cycle 6

As a national dataset, it has been underutilized for studies assessing condom use in adult women



As Reported by the CDC

Purpose and Hypothesis

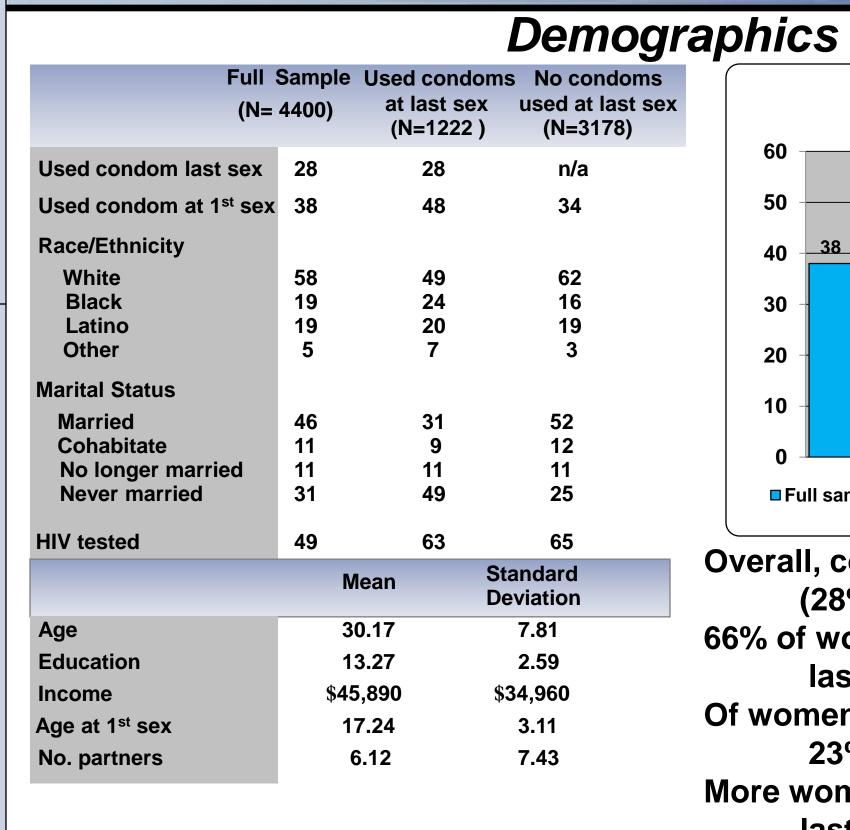
The purpose of this study was to use the NSFG to: investigate the observed association of condom use at last sex and condom use at sexual debut in women of reproductive age, assess differences in condom use behavior by race, and evaluate the effect of age at sexual debut and number of sexual partners has on condom use at last sex.

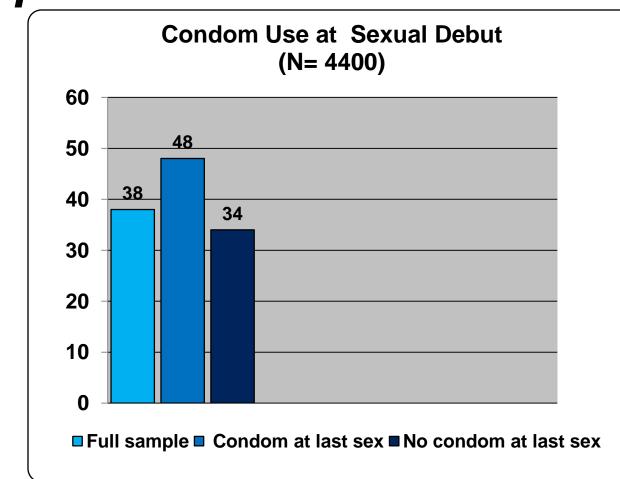
Hypothesis 1: Women who report using condoms at last sex will have greater odds of reported condom use at sexual debut.

Hypothesis 2: Reported condom use at last sex among women of reproductive age will differ based on race.

Hypothesis 3: Condom use at last sex will be affected by age at sexual debut and reported number of sexual partners.

Methods





Overall, condom use at last sex is low (28%) in adult women. 66% of women report no condom use at last sex and at sexual debut. Of women with no condom use at 1st sex. 23% used condoms at last sex More women report condom use at last sex when condom use is

reported at sexual debut.

Methods

Study Design

National Survey of Family Growth, Cycle 6

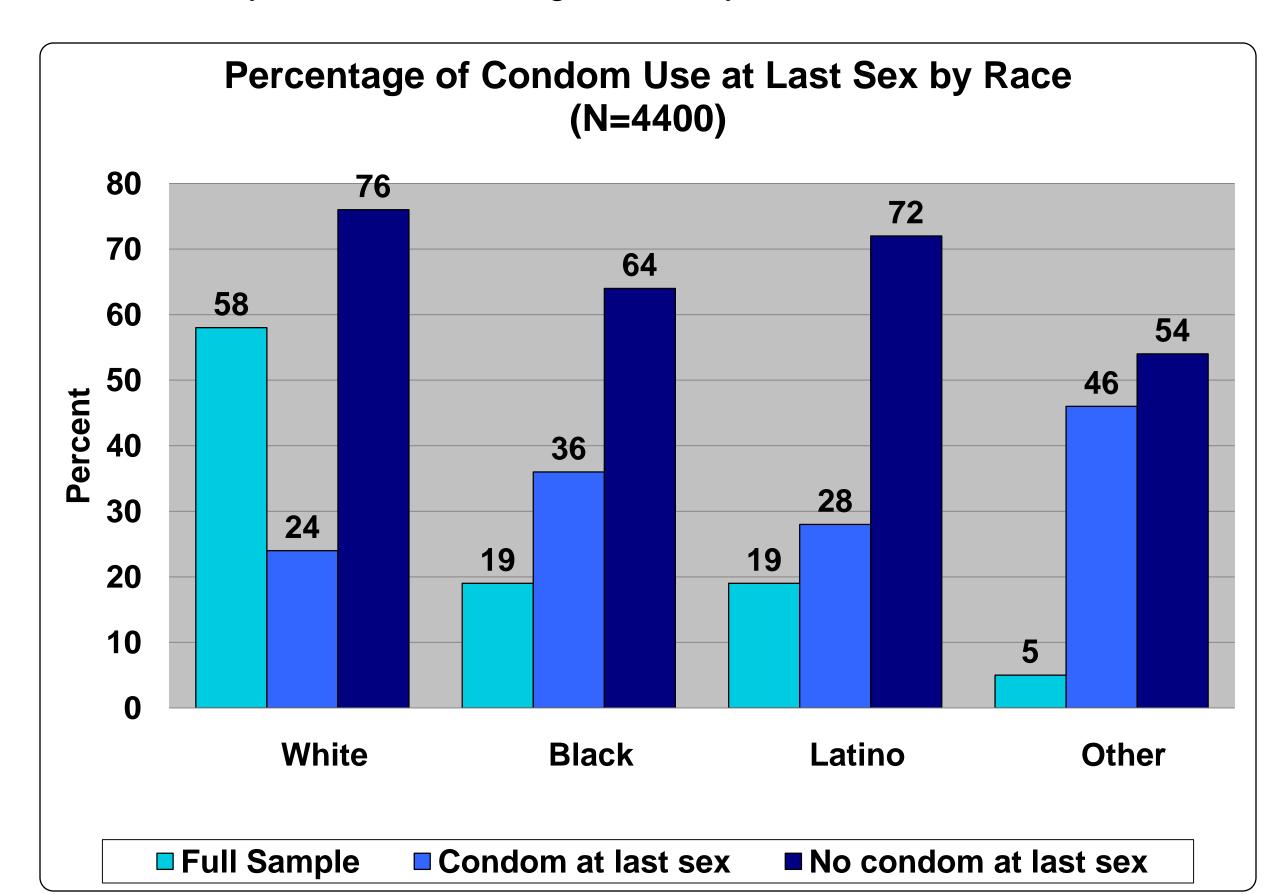
Data collection

Face-to-face interviews

National sample of US households

Analytic Sample

Sexually active women, ages 15-44 years



Variables

Sociodemographic

Age, education, race/ethnicity, marital status, income

Condom use at last sex and 1st sex

Coded yes (1) or no (2)

Sexual Activity

Age at 1st sex, number of lifetime partners, HIV test

Secondary Data Analysis

Pearson's chi square tests

Logistic Regression used to determine:

Odds of using condoms at last sex if used condoms at sexual debut Interaction between condom use at 1st sex and race

Interaction between age at 1st sex and number of partners

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Results

Logistic Regression Models of Condom Use at Last Sex (N=4400)

Model 1	Odds Ratio	95% C.I.	Model 2- Interactions Oc
Condom use at 1st sex	1.66	(1.43-1.92)**	Condom use at 1 st sex
Black	1.64	(1.36-1.98)**	Black
Latino	1.32	(1.08-1.98)*	Latino
_	1102	(1100 1100)	Other
Other	2.63	(1.93-3.59)**	Education
Education	.968	(.938998)*	Age
Age	.974	(.962985)**	Cohabitate
Cohabitate	1.12	(.873-1.45)	No Longer Married
No Longer Married	1.82	(1.42-2.32)**	Never Married
		,	Number of Partners
Never Married	2.50	(2.06-3.03)**	Age at 1st sex
Number of Partners	1.01	(1.00-1.02)*	HIV test
Age at 1st sex	1.07	(1.05-1.10)**	Con. at 1 st sex*Black
HIV test	.999	(.859-1.16)	Con. at 1 st sex*Latino
* .0.05 ** .0.005		-	Con. at 1st sex*Other
*p<0.05, **p<0.005			Age at 1st sex*partner #
Model 1	Model 2		1.go at 1 ook partiioi "

-	Model 2- Interactions	Odds Ratio	95% C.I.
)**	Condom use at 1st sex	1.68	(1.38-2.04)**
)**	Black	1.70	(1.34-2.17)**
•	Latino	1.26	(.997-2.17)
3) *	Other	2.71	(1.81-4.06)**
) **	Education	.968	(.938999)*
3) *	Age	.974	(.963986)**
) **	Cohabitate	1.13	(.876-1.45)
5)	No Longer Married	1.83	(1.43-2.34)**
)**	Never Married	2.53	(2.08-3.07)**
-	Number of Partners	1.04	(.982-1.12)
)**	Age at 1 st sex	1.08	(1.05-1.11)**
2)*	HIV test	1.00	(.862-1.17)
) **	Con. at 1st sex*Black	.898	(.626-1.29)
6)	Con. at 1 st sex*Latino	1.11	(.762-1.64)
-	Con. at 1 st sex*Other	.903	(.484-1.69)
	Age at 1 st sex*partner #	.998	(.994-1.00)

Significantly higher odds of reporting condom used at last sex if reported condom use at 1st sex. Significantly higher odds of reporting condom use at last sex if older at time of sexual debut. Higher odds of condom use among minority women Incremental chi2 362.80 compared to White women.

Findings

398.33

LR chi2 (17)

Prob chi2

Pseudo R2

-2398.72 -2 Log Likelihood

LR chi2 (13)

Pseudo R2

Hypothesis 1: is supported, women who used condoms at last sex had higher odds of using condoms at sexual debut

Hypothesis 2: supported, Black and "Other" women had higher odds of using condoms at last sex compared to White women. However, there was not a significant difference in the interaction between condom use at 1st sex and race.

Hypothesis 3: not supported, there is not a significant difference in condom use at last sex based on age at 1st sex and number of partners

Implications

Sex education should be taught prior to sexual debut

Policy shift to comprehensive approach

Condom use is a learned behavior; habit forming

HIV/STI prevention efforts should continue in minority populations

Further assess cultural factors/barriers affecting condom use (i.e. religion) Continued funding of successful programs

Primary Contraception Motivation- prevent pregnancy or STIs

Further assess condom use in intentional abstinence post-sexual debut

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