

Condom Use and Anal Intercourse in Heterosexual Men and Women

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Background

Background

- Heterosexual anal intercourse –
 - 10% of men and women report at least 1 event in the previous year.
 - Rates range from 6% - 40% depending on population.
- Recent studies report a rise –
 - 1992: 25.6% of men and 20.4% of women ages 18-59.
 - 2006: 38.2% of men (20-39 years) and 32.6% of women (18-44 years).
- Highly predictive of HIV seroconversion.
 - Per act risk of transmission 5 times higher for receptive and 1.3 times higher for insertive when compared to vaginal sex.

Background

- Condom use for heterosexual anal sex is low.
- Studies have found reasons for non-use include:
 - Low perceived risk of STIs or HIV.
 - “I just knew my partner was safe”.
 - No risk of pregnancy.
 - “We didn’t need to use a condom because pregnancy was not an issue”.

Background

- Demographic characteristics:
 - Younger in age.
 - Higher number of lifetime sex partners.
 - Participation in other risk behaviors (e.g. injection drug use).
- Little is known about lower-risk populations.
- Anal sex has been found to occur more frequently within relationships.
 - Dating or marriage.

Study Purpose

- Even within monogamous partnerships there is a risk of STI/HIV transmission.
 - Extra-relational partnerships
 - “Serial” monogamy
- Sought to examine predictors of condom use for heterosexual anal sex.
- Compare predictors of condom use for vaginal sex within the same individuals.

Methods

Participants

- Data from 2116 men and 3172 women who participated in a larger study on sexual behavior.
- 30% of men (n = 631) and 27% of women (n=856) reported at least one anal sex event in the previous year.
- 91% of sample Caucasian or white.
- Mean age – Men = 30.8 years (SD = 11.3)
Women = 28.0 years (SD = 9.6)

Measures

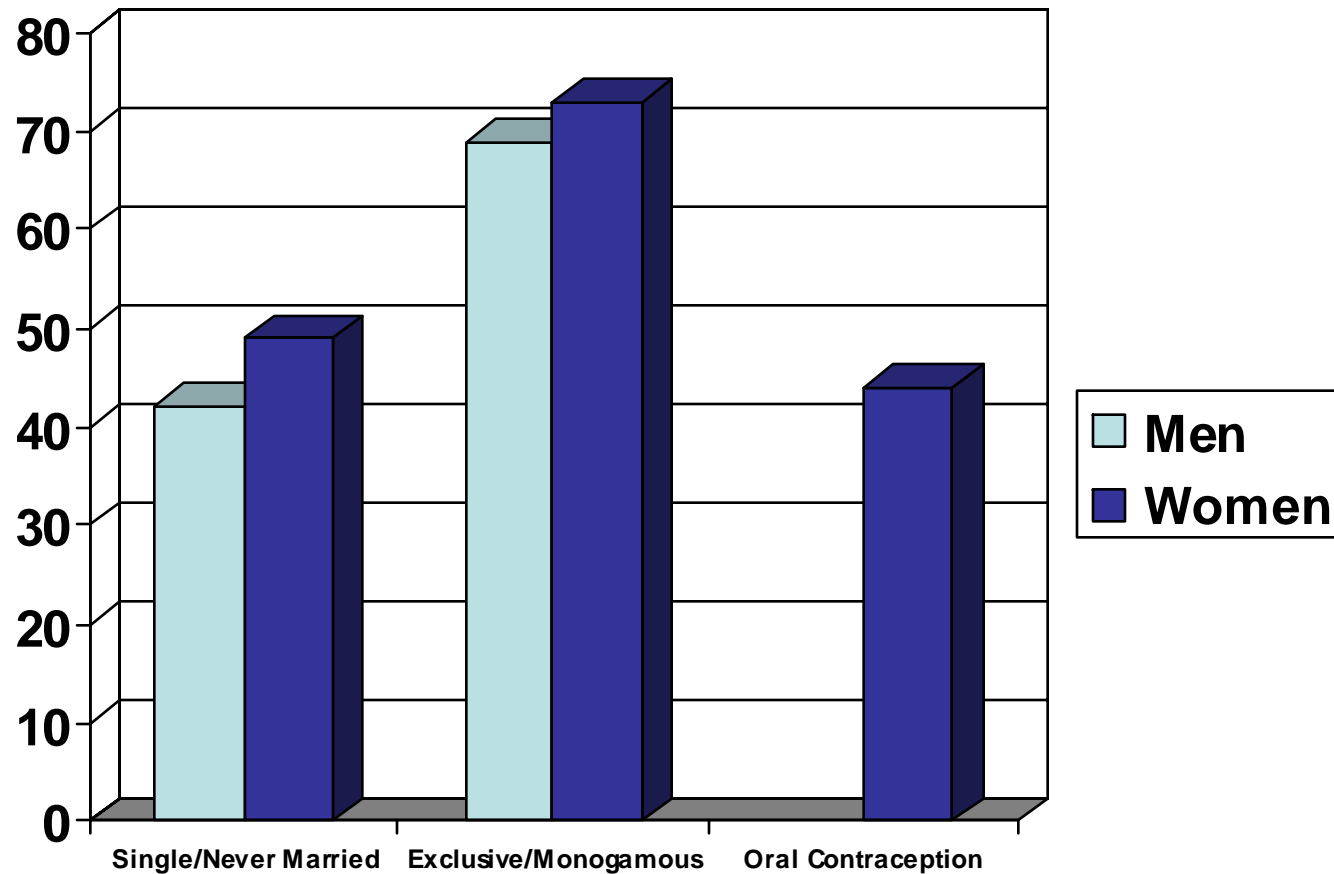
- *Kinsey Institute Sexual Behavior Questionnaire*
 - Asks about experiences with a variety of more and less common sexual behaviors.
- *Sexual Inhibition/Sexual Excitation Scales (SIS/SES)*
 - 45 items and measures three factors: (1) propensity for sexual excitation; (2) propensity for sexual inhibition due to “the threat of performance failure”; and (3) propensity for sexual inhibition due to “the threat of performance consequences”.
- *Zemore Depression Proneness Ratings (ZDPR)*
 - This is a trait measure (13 items) of propensity for depression in terms of frequency and severity.
- *Spielberger Trait Anxiety Inventory (STAI)*
 - A widely used trait anxiety measure, consisting of 20 items (e.g., “I worry too much over something that doesn't matter”; “I am calm, cool and collected”).

Methods

- Analyses conducted by gender:
 - Descriptive statistics to explore:
 - Rates of condom use for vaginal and anal sex.
 - Associations with relationship type.
 - Multiple regression to explore:
 - Predictors of condom use for vaginal and anal sex.
 - Independent variables:
 - Age, SIS/SES, number of sex partner in past year, number of lifetime one-night stands, number of sex partners w/o condoms in past 3 years, ZDPR, and STAI.

Results

Sample Characteristics

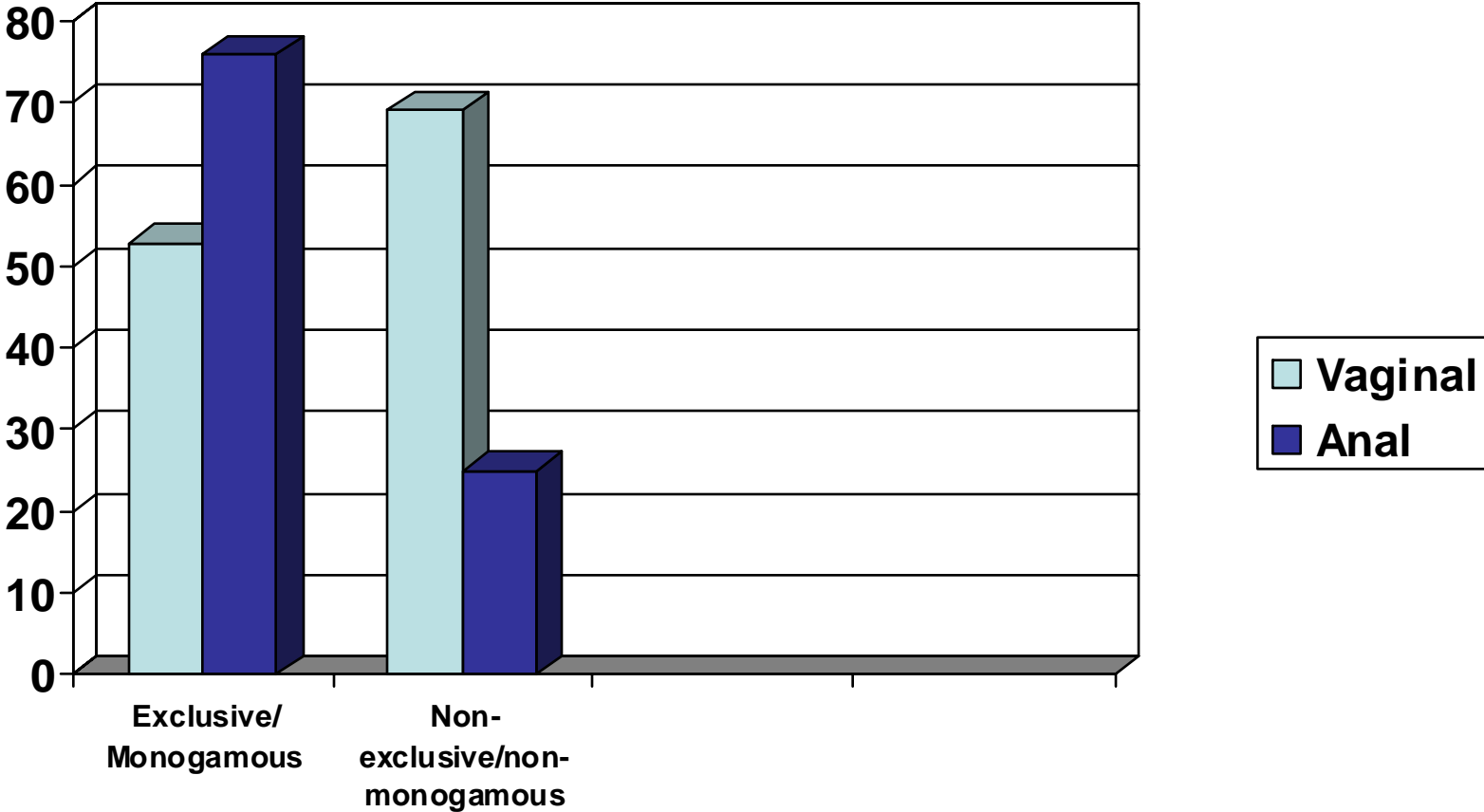


Sample Characteristics

	Men	Women
Relationship Duration	7.4	5.5
Sex Partners (Within previous year)	2.5	2.3
One-Night Stands (Lifetime)	12.2	5.6
Sexual Partners w/o a condom (Past 3 years)	2.7	2.1

* Mean number

Condom Use for Vaginal and Anal Sex



Predictors of Condom Use

- Vaginal sex
- More consistent use associated with:
 - For men the model explained 19% of the variance.
 - Significant predictors were age and number of partners.
 - For women the model explained 16% of the variance.
 - Significant predictors were lower age and lower SIS 1 scores, higher SIS 2 scores, higher number of partners, ZDPR scores, and STAI scores.

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also better as a table with a direct comparison of condom use with vaginal and anal

Department of Pediatrics, 10/12/2007

Predictors of Condom Use

- Anal Sex
- More consistent use associated with:
 - Model accounted for 3% of the variance for both men and women.
 - For men, significant predictors were age and number of partners.
 - For women, age and SES were the only significant predictors.

Discussion

Discussion

- Finding that a large proportion of the sample “never” used condoms for anal sex suggests that these individuals may be at risk for HIV/STIs.
- The low proportion of variance accounted for by models of condom use for anal sex could indicate that the behavior is qualitatively different from vaginal sex.
- Health professionals need to consider heterosexual anal sex when discussing risk with clients.

Discussion

- Additional research into the relationship between heterosexual anal sex and condom use is needed.
- Additional information about individuals who regularly engage in anal sex is needed to improve our understanding of the phenomenon.
- Limitations:
 - Did not ask about frequency of anal sex.
 - May be a rare event for some but not others.