HIV Sexual Risk Factors among Heterosexual and Bisexual Black Women (aged 18-44 years) in the US: Results from the National Survey of Family Growth, 2006-2013

Lisa L. Lindley, DrPH, MPH, CHES1, Katrina Walsemann, PhD, MPH2, and Erica Street, MPH3
1. Department of Global and Community Health, George Mason University, Fairfax, VA. 2. Department of Health Promotion, Education, and Behavior, Arnold School of Public Health, University of South Carolina, Columbia, SC

INTRODUCTION:
- After men who have sex with men (MSM), Black women infected through "heterosexual contact" report the most cases of HIV in the U.S.
- Unlike men, however, women's sexual identity (lesbian, gay, bisexual, etc.) or sex with female partners is not considered in STD surveillance.
- Yet, bisexual women and women who have sex with both men and women (WSWMM) regardless of sexual identity have been shown to be at greater risk for STDs than heterosexual women and women who only have sex with men.1-7

PURPOSE:
- To compare HIV sexual risk factors (past year) among Black women (aged 18-44 years) who had sex with a man in the past year ("heterosexual contact") by sexual orientation (sexual identity and sexual attraction).

METHODS:
- We conducted a secondary analysis of the National Survey of Family Growth, 2006-2013 data.
- The sample was restricted to Black women (aged 18-44 years) who had sex with a man ("heterosexual contact") in the past year; lesbians were excluded (due to data sparseness) (n=6,878).
- Women were asked whether or not they engaged in the following behaviors (past year) and if they had an STD (past year):
  - Had sex with a male partner.
  - Had sex with a male IDU.
  - Had sex with an HIV+ male partner.
  - Had sex with a female partner.
  - Exchanged $ or drugs for sex w/male.
  - Exchanged $ or drugs for sex w/female.
  - Had 3+ male sex partners.
  - Had 3+ male sex partners and an STD.
  - Had 3+ male sex partners and an STD and an HIV+ male partner.
  - Had 3+ male sex partners and an STD and an HIV+ male partner and an STD.
  - Had sex with a female partner.
  - Had sex with a female partner and an STD.
  - Had sex with a female partner, an STD, and an HIV+ male partner.
  - Had sex with a female partner, an STD, and an HIV+ male partner and an STD.
  - Had a non-monogamous male sex partner.
  - Had a non-monogamous male sex partner and an STD.
  - Had a non-monogamous male sex partner and an STD and an HIV+ male partner.
  - Had a non-monogamous male sex partner and an STD and an HIV+ male partner and an STD.
  - Had sex with a male and female partner.
  - Had sex with a male and female partner and an STD.
  - Had sex with a male and female partner, an STD, and an HIV+ male partner.
  - Had sex with a male and female partner, an STD, and an HIV+ male partner and an STD.

RESULTS:
- We estimated new HIV diagnoses in the United States for the Most-Affected Subpopulations, 2014.
- HIV Sexual Risk Factors (past year) among Black Women (aged 18-44 years) who had Sex with a Man (past year) by Sexual Identity and Attraction, National Survey of Family Growth, 2006-2013.

HIV Sexual Risk Factors (past year) among Black Women (aged 18-44 years) who had Sex with a Man (past year) by Sexual Identity and Attraction, National Survey of Family Growth, 2006-2013.

<table>
<thead>
<tr>
<th></th>
<th>Total Population (n=6,878)</th>
<th>Heterosexual ID/ Men ONLY (n=5,964)</th>
<th>Heterosexual ID/ Same-Sex Attraction (n=545)</th>
<th>Bisexual ID/ Any Attraction (n=369)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3+ Male Sex Partners</td>
<td>507 (7.4)</td>
<td>337 (5.7)</td>
<td>109 (20.0)</td>
<td>61 (16.5)</td>
</tr>
<tr>
<td>Bisexual Male Sex Partner</td>
<td>111 (1.6)</td>
<td>96 (1.6)</td>
<td>9 (1.7)</td>
<td>6 (1.6)</td>
</tr>
<tr>
<td>Non-Monogamous Male Sex Partner</td>
<td>1409 (20.5)</td>
<td>1063 (17.8)</td>
<td>194 (35.6)</td>
<td>152 (41.2)</td>
</tr>
<tr>
<td>Sex w/Male IDU</td>
<td>63 (0.9)</td>
<td>47 (0.8)</td>
<td>7 (1.3)</td>
<td>2 (0.4)</td>
</tr>
<tr>
<td>Exchanged $ or Drugs for Sex w/Male</td>
<td>173 (2.5)</td>
<td>69 (1.2)</td>
<td>53 (9.7)</td>
<td>51 (13.8)</td>
</tr>
<tr>
<td>Sex w/HIV+ Male Partner</td>
<td>19 (0.3)</td>
<td>16 (0.3)</td>
<td>3 (0.5)</td>
<td>0 (0)</td>
</tr>
<tr>
<td>Anal Intercourse with Male Partner</td>
<td>1108 (16.1)</td>
<td>837 (14.0)</td>
<td>159 (29.2)</td>
<td>112 (30.4)</td>
</tr>
<tr>
<td>Had an STD</td>
<td>578 (8.4)</td>
<td>481 (8.1)</td>
<td>63 (11.6)</td>
<td>34 (9.2)</td>
</tr>
</tbody>
</table>

NOTE: Sexual Identity & Attraction Categories: a = Heterosexual Identity, Only Attracted to Men; b = Heterosexual Identity, Some Same-Sex Attraction; c = Bisexual Identity, Any Attraction (Only attracted to men; Mostly attracted to men; Occasionally attracted to women; Attracted to Men and Women Equally; Mostly attracted to women, occasionally attracted to men; Only attracted to women).

DISCUSSION:
- Bisexual women and heterosexual-identified women who had same-sex attractions:
  - Were more likely to report 2+ HIV sexual risk factors (past year) than heterosexual-identified women only attracted to men and women.
  - Accounted for nearly one-third (31%) of Black women reporting 2+ HIV sexual risk factors, while representing only 11% of Black women.
  - Black women who had sex with a female partner (past year) had 4.9 times greater odds of reporting 2+ HIV sexual risk factors (past year).
  - 40% of bisexual women, 17% of heterosexual-identified women with same-sex attractions, and 2% of heterosexual-identified women only attracted to men had sex w/a female (past year).

CONCLUSIONS:
- "Heterosexual contact" is too broad a category for STD/HIV surveillance among women.
- Additional categories, such as "women who identify as bisexual or report having both male and female sex partners (WSWMM)," should be included.

REFERENCES:
1. CDC, HIV/AIDS among women who have sex with women, 2014.