GETTING HIGH AND HAVING SEX
Condom use among adolescent substance users
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SEXUAL ACTIVITY AMONG YOUTH

According to the US Center for Disease Control

- 47% of high school students report having had sexual intercourse
- 34% reported sexual intercourse in the last 30 days
- 41% did not use a condom the last time they had sexual intercourse
- Almost half of new STIs each year are reported among individuals 24 and younger
- Over 270,000 babies born to teen moms in 2013

Kann et al. (2013)

DISCLAIMER

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DRUGS AND POPULAR CULTURE
SUBSTANCE USE AMONG ADOLESCENTS

According to Monitoring the Future:

- Marijuana
  - Most commonly used illicit drug.
  - Use in the past year among 12th graders peaked in 1979 at just above 50%.
  - Currently, use in the past year is in the mid 30% range.
- Alcohol
  - Most commonly used substance.
  - Use in the last 30 days is 33% for seniors.
  - Binge drinking is at historic lows.

Johnston et al. (2015)

SUBSTANCE USE AND RISKY SEX

- Research is mixed on whether substance use increase risky sex behavior
- Some studies say behavior such as substance use, alcohol, and risky sex are commonly found among the same populations of people (Chan et al., 201; Grossman & Markowitz, 2005; Guo & Chung, 2006).
- Some studies link substance use and alcohol use with risky sexual behavior (Brown et al., 2008; Bryan et al., 2005; Schmiege & Bryan, 2015*).
- But, some studies say there is no link (Callahan et al., 2013; Leigh et al., 2008; Schmiege & Bryan, 2015*; Shrier et al., 2012; Tucker et al. 2012**).

*Different classes of youth had different results
**Hard drugs (other than marijuana) were correlated with risky sex behavior

CONTEXT

- 5 year program evaluation funded by the Office of Adolescent Health
- Participant Selection
  - Currently enrolled in local school district
  - Participating in Drop Out Prevention services
  - 17-19 years old
  - Have previously dropped out of school or at risk for dropping out
  - Able to read and understand English
  - Able to attend the intervention program
  - Provide consent/assent to participate in study

Final Sample Size for Original Study = 1174 youth

SEXUAL HEALTH CHARACTERISTICS

- About half how the sample reported recent intercourse in the last 3 months
  - Yes - 46.9% (n = 546)

- Condom use was low among this sample

Recent Intercourse

Without a Condom

- Yes, n = 302 (33%)
- No, n = 211 (67%)

Yes

No
RESEARCH DESIGN

- Non-experimental cross-sectional analysis of baseline data
- Participant Selection for Current Study
  - Only those sexually active in past 3 months
  - Only those with valid DAP scores
  - List wise deletion for missing data
- Complete Data analysis
- Developmental Asset Profile (DAP) (Scales, 2011)
  - Internal assets (characteristics and behaviors that reflect positive personal and psychological development)
  - External assets (positive experiences, relationships, and encouragement and support)
  - Context view: Personal, Social, School, Family, Community

DEMOGRAPHICS

- N=754
- Gender
  - 52.8% male and 47.2% female
- Race
  - Primarily Black or African American
  - More than 1/3 Unknown
- Ethnicity
  - 52.4% Hispanic

QUESTIONS

- Developmental Asset Profile (DAP)
  - Internal and External assets
  - Personal, Social, School, Family, Community
    - How many times in the past 3 months have you had sexual intercourse?
    - How many times in the last 3 months did you get high on alcohol or drugs and have sexual intercourse?
    - On how many days in the last 3 months did you get high on alcohol or drugs and have sexual intercourse without using a condom?

DEVELOPMENTAL ASSETS TOTAL

- Total 6%
- Excellent 45
- Good 228
- Fair 338
- Low 143
RESULTS—SUBSTANCE USE

• Does substance use correlate to sex without a condom?

• Substance use significantly correlates with increased risky sexual behavior in adolescents ($\chi^2=38.399, df=1, p<.001$).

• 69% of youth who had sex after using substances reported not using a condom

• 42% of youth who did not use substances reported having sex without a condom

RESULTS—DEVELOPMENTAL ASSETS

Decreased developmental assets significantly correlates with increased substance use and with increased risky sexual behavior

<table>
<thead>
<tr>
<th>DAP Interpretive range</th>
<th>Sex without a Condom</th>
<th>Substance use and sex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>57%</td>
<td>36%</td>
</tr>
<tr>
<td>Fair</td>
<td>45%</td>
<td>26%</td>
</tr>
<tr>
<td>Good</td>
<td>42%</td>
<td>17%</td>
</tr>
<tr>
<td>Excellent</td>
<td>47%</td>
<td>13%</td>
</tr>
</tbody>
</table>

Results $\chi^2=7.880, df=3, p=.049^*$  
$\chi^2=20.081, df=3, p<.001^*$

DAP CONTEXT

Decreased developmental assets significantly correlate with increased substance use and with increased risky sexual behavior

<table>
<thead>
<tr>
<th>DAP Subscale</th>
<th>$\chi^2$</th>
<th>df</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal</td>
<td>10.032</td>
<td>3</td>
<td>.018</td>
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</tbody>
</table>

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<thead>
<tr>
<th>DAP Subscale</th>
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<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family</td>
<td>10.361</td>
<td>3</td>
<td>.016</td>
</tr>
<tr>
<td>Personal</td>
<td>26.153</td>
<td>3</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Social</td>
<td>22.909</td>
<td>3</td>
<td>&lt;.001</td>
</tr>
</tbody>
</table>

MULTIPLE REGRESSION ANALYSIS

<table>
<thead>
<tr>
<th></th>
<th>Internal assets $\beta$</th>
<th>F score</th>
<th>p-value</th>
<th>% of variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex without a condom</td>
<td>-.081</td>
<td>4.930</td>
<td>.027*</td>
<td>8%</td>
</tr>
<tr>
<td>Substance use and sex</td>
<td>.185</td>
<td>23.618</td>
<td>&lt;.001*</td>
<td>19%</td>
</tr>
</tbody>
</table>

- Covariates were added to the regression analysis for Gender, Race, Age, Grade, and Ethnicity
- Gender was a significant covariate for sex without a condom, indicating that females were more likely to engage in sexual intercourse without a condom than were males.
- No covariates were significant on substance use.
SO WHAT NOW?

- Identify youth who report substance use
- Targeting substance use prevention and education may increase condom use
- Identify youth with low developmental assets
- Building assets (particularly internal assets and personal assets) may increase condom use

REFERENCES


