Risk and Protective Factors: The Intersection of Substance Abuse and Gambling Prevention

Dr. Jeanie Alter
Dr. Mi Kyung Jun
Eric Vance Martin
Indiana Prevention Resource Center
www.drugs.indiana.edu
Before We Begin

- Speaker: Describe the best present you ever received or your best vacation
- Listener: No expressions, questions, nodding, etc.
- How did it feel to get no feedback from your listener?
- How difficult was it to stifle your natural expressions?
Objectives

- Describe the relationship between youth substance use and gambling
- Identify risk and protective factors common to substance use and gambling
- List gambling prevention curricula
Risk factors ~ Precursors or correlates of ATOD use

Protective factors ~ Factors that moderate exposure to risk
Incorporates risk/protective factors into a model describing the driving force of behavior as the formation of social bonds that result in the internalization of values and standards of behavior held by the socializing agent(s).

In short, this model describes how we can decrease risk factors and increase protective factors by promoting bonding with prosocial others.
Social Development Model

The Goal...

Healthy Behaviors
...for all children and youth

Start with...
Healthy Beliefs and Clear Standards
...in families, schools, and peer groups

Build...
Bonding
- Attachment
- Commitment
...to families, schools, and peer groups

By providing...
Opportunities  Skills  Recognition
...in families, schools, and peer groups

Be Aware of...
Individual Characteristics

http://depts.washington.edu/ssdp/index.html
Risk and Protective Factors: Gambling and Substance Use

http://depts.washington.edu/ssdp/index.html

<table>
<thead>
<tr>
<th>Risk Factors</th>
<th>Substance Abuse</th>
<th>Teen Pregnancy</th>
<th>School Drop-Out</th>
<th>Violence</th>
<th>Depression &amp; Anxiety</th>
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</table>
Gambling Defined

- Risking something of value
- Based on chance
- Which is considered gambling?
  - Providing tickets for good behavior, placing tickets in a hat and drawing for a top prize
  - Providing tickets for good behavior, counting tickets and allowing the youth with the most tickets to choose his/her prize
Why the Concern about Gambling?
### Prevalence of Gambling Behavior

Source: 2006 IPRC Indiana Survey

<table>
<thead>
<tr>
<th>Gambling Behavior</th>
<th>% (N=120,914)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Played cards</td>
<td>28.5</td>
</tr>
<tr>
<td>Bet on games</td>
<td>25.5</td>
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<tr>
<td>Bet on sports</td>
<td>22.5</td>
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<tr>
<td>Bought lottery tickets</td>
<td>17.9</td>
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<tr>
<td>Gambled in a casino</td>
<td>2.3</td>
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</table>
Percentage of youth reporting any gambling

<table>
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<tr>
<th>Number of Assets</th>
<th>0 - 10</th>
<th>11 - 20</th>
<th>21 - 30</th>
<th>31 - 40</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>30%</td>
<td>19%</td>
<td>11%</td>
<td>4%</td>
</tr>
</tbody>
</table>

*Based upon surveys with over 217,000 6th to 12th grade youth in 318 communities and 33 states during the 1999-2000 school year. (Source: The Search Institute.)

Source: Arizona Office of Problem Gambling
Problem Gambling

- Gambling behavior that causes disruptions in any major area of life (psychological, physical, social, or vocational).
- Includes pathological or compulsive gambling.

Source: National Council on Problem Gambling
Adol. Problem Gambling Risk Factors

Community
• Availability
• Community Laws & Norms

Family
• Family History (both gambling & problem gambling)
• Family Conflict (competition)
• Parental Attitudes/Involvement
Adol. Problem Gambling Risk Factors

School
• Anti-Social Behavior

Individual /Peer
• Peer Involvement
• Favorable Attitudes
• Early Initiation

Correlation between Annual Cigarette Use and Gambling Behavior

- Annual Cigarette Use vs. Gambling Behavior for:
  - None
  - Often

For the categories of gambling behavior:
- Cards: $r = .153$ (p<.001)
- Games: $r = .209$ (p<.001)
- Sports: $r = .204$ (p<.001)
- Lottery: $r = .179$ (p<.001)
- Casino: $r = .152$ (p<.001)
Correlation between Annual Alcohol Use and Gambling Behavior

Gambling Behavior

None

Often

Heavy Use

Annual Alcohol Use

r = .228 (p<.001)
r = .293 (p<.001)
r = .259 (p<.001)
r = .225 (p<.001)

r = .105 (p<.001)

Gambling Behavior:
- Cards
- Games
- Sports
- Lottery
- Casino
Correlation between Annual Marijuana Use and Gambling Behavior

![Graph showing the correlation between annual marijuana use and gambling behavior. The graph includes different types of gambling behavior (Cards, Games, Sports, Lottery, Casino) and shows correlation coefficients (r) with their respective p-values. The correlation coefficients are: r = .105 (p<.001), r = .158 (p<.001), r = .198 (p<.001), r = .156 (p<.001), r = .179 (p<.001).]
Logistic Regression

- Gender: Male/Female
- Grade: 6 - 8th
- Annual use of cigarettes, alcohol, & marijuana: User/Non-user
- Risk & protective factors
  - Perceived risk of using substances
  - Perceived peer approval of using substances
  - Participation in after-school activities
Logistic Regression

- Male students were more likely to gamble.
- Older students were more likely to gamble.
- Cigarette, alcohol, and/or marijuana users were more likely to gamble.
- Students who believed that substance use was less harmful were more likely to gamble.
- Students who perceived that their peers were more approving of substance use were more likely to gamble.
- Students who did not participate in after-school activities were more likely to gamble.
Afternoons ROCK in Indiana

- After-school drug prevention program for 10-14 yr old Hoosiers
- 10th year – Added a required gambling component in 2007 funded by the Gambler’s Assistance Fund
- *Improving your Odds*
- Collected baseline gambling data in 2006
No gambling prevention curriculum in place

<table>
<thead>
<tr>
<th></th>
<th>Pre</th>
<th>Post</th>
<th>Difference</th>
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<tbody>
<tr>
<td>Played cards</td>
<td>13.1</td>
<td>11.7</td>
<td>-1.4</td>
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<tr>
<td>Bet on games</td>
<td>11.7</td>
<td>10.4</td>
<td>-1.3</td>
</tr>
<tr>
<td>Bet on sports</td>
<td>10.7</td>
<td>9.5</td>
<td>-1.2</td>
</tr>
<tr>
<td>Bought lottery tickets</td>
<td>9.1</td>
<td>8.3</td>
<td>-0.8</td>
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<tr>
<td>Gambled in a casino</td>
<td>0.9</td>
<td>1.2</td>
<td>0.3</td>
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Note. Highlights indicate significant differences between pre and post tests (p.<05).
## Gambling Behavior & ROCK, 2007

Gambling prevention curriculum in place

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pre</th>
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<tbody>
<tr>
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<td>-1.9</td>
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<tr>
<td>Bet on sports</td>
<td>11.7</td>
<td>10.4</td>
<td>-1.3</td>
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<tr>
<td>Bought lottery tickets</td>
<td>8.8</td>
<td>8.1</td>
<td>-0.7</td>
</tr>
<tr>
<td>Gambled in a casino</td>
<td>1.1</td>
<td>1.4</td>
<td>0.3</td>
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Note. Highlights indicate significant differences between pre and post tests (p.<05).
## Gambling Behavior & ROCK, 2006-2007

<table>
<thead>
<tr>
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<th>Pre</th>
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<td>Gambled in a casino</td>
<td>0.9</td>
<td>1.1</td>
<td>1.2</td>
<td>1.4</td>
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Note. Highlights indicate significant differences between 2006 and 2007 (p.<05).
Gambling Prevention Curricula

- **Gambling: A Challenge For Youth** ~ middle school curriculum
- **Improving Your Odds: A Curriculum About Winning, Losing and Staying Out of Trouble with Gambling** ~ secondary level curriculum
- **Table Talk: A Program for Families About Winning, Losing and Staying Out of Trouble with Gambling** ~ parent curriculum
- **Wanna Bet** ~ grades 5-8
- **All "Bets" Are Off!** ~ grades 7-8
- **Don't Bet On It!** ~ grades 9-12
Activity

❖ Gambling: A Challenge for Youth
(http://www.extension.umn.edu/distribution/youthdevelopment/DA6291.html#Additional)
  - Lesson 4 ~ Positive & Negative Effects of Gambling
  - Key Concept ~ Positive and negative effects of gambling.

❖ Gambling: A Challenge for Youth
  - Throughout time, people have debated whether gambling is right or wrong. The following ideas look at both sides of the story.
    - More jobs available in the rural areas
    - Time away from family, friends, and other activities while gambling
    - Higher wages paid to employees in casinos than other similar jobs
    - Loss of trust if gambling gets to be a problem
    - Gambling can be addictive
Thank You!