The Use of Parent-Based Normative Feedback Interventions to Reduce College Alcohol Risk

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Overview

• Do parents still matter during emerging adulthood?
• Social norms and parents’ attitudes and behaviors
• Developing norms-based parent interventions
  – Web-based intervention
  – In-person intervention
• Discussion and Questions
Do Parents Still Matter?

• Relatively few studies examine parenting during emerging adulthood (Padilla-Walker, Nelson, Madsen, & Barry, 2008)

• Salience and influence of parents declines (Ham & Hope, 2003; Kandel & Andrews, 1987; Windle, 2000; Wood et al., 2001)

• Growing body of research suggests parents do matter (Boyle & Boekeloo, 2006; Abar & Turrisi, 2008; Padilla-Walker et al., 2008; Small, Morgan, Abar & Maggs, 2011; Turrisi et al., 2000)
Do Parents Still Matter?

• ↑ Parental monitoring =
  – Less approving student attitudes
  – Less student substance use

• ↑ Parent permissiveness =
  – More approving student attitudes
  – More frequent student substance use

(Abar & Turrisi, 2008; Napper et al., 2014; Varvil-Weld et al., 2012; Walls et al., 2009)
Parent Communication

• Alcohol-specific communication (Booth-Butterfield & Sidelinger, 1998; Boyle et al., 2009; Napper et al., 2013; Turrisi et al., 2000)
  – 69% decrease in alcohol-specific communication after transition to college (Cremeens et al., 2008)
  – Misperceptions of student alcohol use (Bylund et al., 2005; Hummer et al., 2013)
  – Communication becomes more permissive (Miller-Day, 2008; Reimuller et al., 2011)
Parent Based Interventions (PBIs)

• Emergence of college PBIs:
  – Multicomponent mailed handbooks (e.g., Turrisi et al., 2001)

• When parents participate in PBIs, students report:
  – Greater alcohol-related communication (Testa, Hoffman, Livingston, & Turrisi, 2010)
  – Less risky alcohol use (Ichiyama et al., 2009; Turrisi et al., 2001)
Social Norms Approach

• Attitudes and behaviors are often shaped by:
  – perceived behaviors of social group
  – perceived attitudes of social group

• Perceptions of others are often inaccurate

(Berkowitz, 2004; Cialdini, Reno, & Kallgren, 1990; Neighbors, Lee, Lewis, Fossos, & Larimer, 2007; Perkins, 2002; Prentice, 2008; Prentice & Miller, 1993)
85% of Tumwater HS students do not use tobacco.

These stats came from you!

In 2009, 942 Tumwater High School students took an anonymous survey. Fifty-one surveys were thrown out because people lied. The remaining surveys gave us this data.

If you choose to drink, know this: 7 out of 10 Fresno State students consume 0-3 drinks, if at all.

Based on a survey of 1,029 randomly selected Fresno State students (Spring 2009).

1 out of 4 MU students never used alcohol.

LEARN MORE: millersville.edu/cheep/socialnorms
Influence of Other Parents

Perceive other parents as approving

Personal approval drinking

Perceive other parents not communicating

Less communicate

(Linkenback et al., 2003; LaBrie et al., 2011; Napper et al., 2014)
Parent Social Norms Campaign

MOST of Us

MIHS and IMS Parents care.

Ninety Five Percent

Don't allow their teens to drink alcohol at home.

Safety Strategies

90% of WHS parents discuss alcohol with their teens.

NO!

They have a verbal or written “contract” with their teen to avoid alcohol use.

MOST of Us

MI Parents draw the line.

Students say:

Seven out of Ten MI parents discuss rules about alcohol.

Let's Draw the Line.org
Developing social norms interventions for college parents

• Parents can have a significant impact on their students’ substance use behaviors
  – Perceived approval
  – Communication

• Perceptions of other parents may impact parents’ own behavior and attitudes

• Correcting misperceptions and reinforcing communication norms may be beneficial
Overview

• **Study 1**
  – Pilot study examining the effects of a web-based norms

• **Study 2**
  – Web-based personalized normative feedback (PNF) PBI
  – Randomized control design study
  – Parent-student dyads

• **Study 3**
  – In-person group normative feedback PBI
  – Randomized control design study
  – Parent-student dyads
Pilot Study 1

• Examines the effects of a web-based social norms intervention on parents’:
  – Intentions to talk to their student about alcohol
  – Perceived norms
Participants ($N = 144$)

- Mean age = 50.8 years
- 77.8% Female
- 60.4% White

- Parents’ reported frequency of seeing or talking to their child
Measures

• Intentions
  – “I intend to speak with my child about their alcohol use in the next month”

• Perceived student alcohol use
  – The Drinking Norms Rating Form (Baer, Stacy, & Larimer, 1991)

• Perceived and actual approval of alcohol-related behaviors
  – 4 items (Lewis et al., 2010)
Normative Feedback

1. Perceived student alcohol use and approval
   – 85% of parent underestimate their own student’s alcohol use
   – 70% of parents underestimate how acceptable their own student believes it is to engage in various drinking behaviors

2. Perceived other parental approval
   – Other parents were generally less approving than they were perceived to be
Results: Changes post-feedback

Perceived Student Drinks per Week

Pre  |  Post
---   |  **

**p < .001
Changes post-feedback

Perceived Other Parent Approval

**p < .001
Intentions to talk to student

**p < .001
Qualitative Data

• 42.3%: Motivated to have a conversation/discuss the statistics

• 22.5%: Plan to ask child about his/her use of alcohol

• 18.3%: Plan to find out more about child’s alcohol attitudes

• 16.9%: Plan to initiate more frequent conversations about alcohol
Study 1 Summary

• Conclusions:
  – Parents receptive to web-based normative feedback
  – Normative feedback associated with changes in beliefs about student drinking, beliefs about other parents’ attitudes, and motivation to discuss alcohol

• Limitations:
  – No control group
  – No student outcomes
Study 2

- Randomized control design study
- Participants 403 parent-student dyads
  - Summer prior to college
- Assess student outcomes up to 6 months post intervention
- Does web-based PNF result in greater parent communication and reductions in student alcohol risk during the transition to college?
Participants ($N = 403$ dyads)

• Demographics:
  – Student mean age = 17.8 yrs
    • 52.6% Female
    • 61.5% Caucasian
  – Parent mean age = 50.5 yrs
    • 79.2% Female

![Pie chart showing the distribution of family types: 45% Mother / Daughter, 34% Father / Daughter, 8% Mother / Son, 13% Father / Son.](image)
Procedure

1. 8 weeks before school
   - Students recruited by email and letter

2. 4 weeks before school
   - Dyads randomized to condition
   - Parents complete survey and intervention

3. 1 month after start of school
   - Students complete 1\textsuperscript{st} follow-up survey

4. 6 months after start of school
   - Students complete 2nd follow-up survey
Measures

• **Parent outcomes:**
  – Intentions to communicate
  – Perceptions of students’ drinking in college

• **Student outcomes:**
  – Parent communication
    • 20 items (Yes / No format)
    • e.g., “How to handle offers of alcoholic drinks,” “How alcohol might affect my goals.”
  – Drinks per week (DDQ; Collins et al., 1985)
Parent Intervention Summary

• Personalized normative feedback (PNF):
  – Perceptions of own child’s drinking and actual student norms
  – Own approval of student drinking, perceptions of other parents approval, actual norm
  – Own alcohol communication, perceptions of other parent’s communication, actual norm

• Advice for discussing alcohol with student
Students’ Alcohol Use

• You estimate that your daughter will drink **0 drinks** per week during her first year in college.

• The typical female student reports drinking **4.8 drinks** per week.

67% of parents **underestimate** how much their own daughter drinks on a typical week.

10% of female students drink **16 or more drinks** per week.
How often is it acceptable for students to drink?

• You believe it is acceptable for your daughter to drink alcohol once a month.
• You report that a typical parent believes it acceptable for his or her daughter to drink once a week.
• According to parents surveyed, parents typically report that it is acceptable for their daughter to drink 4 to 6 times a year.

68% of parents overestimate how often other parents think it is acceptable for their own child to drink.
Before your child leaves for college:

- Avoid lecturing or telling your child what they should do and think. Instead listen to your student in a non-judgmental manner. Ask open-ended questions about their opinions toward alcohol use and how they plan to make decisions about alcohol in college.

- Ask your child how they might handle hypothetical alcohol situations. For example, if someone offers them a drink, or if their friends/roommates choose to frequently party.
Before your child leaves for college:

- Discuss how drinking can affect relationships and students’ academic, career, athletic or personal goals. Bear in mind that although it is useful to talk about the risks and consequences of alcohol use, students may not respond well to fear tactics.

- If your child does drink, consider discussing strategies they might use to drink more safely, for example:
  - deciding not to go beyond a set number of drinks
  - drinking slowly and spacing out drinks over time
  - not drinking on an empty stomach
Once your child is at college:

• Stay in regular contact throughout the semester.
• Ask your child about their academic performance, what kind of social activities they are involved in, and alcohol use by their friends and roommates.
• Encourage your student to attend classes regularly and get involved in non-alcohol related social activities, such as community service.
Control Group

- Provided educational information about general health issues facing college students.
  - Guidelines for healthy lifestyle
  - Exercise norms
  - Diet norms
  - College resources for healthy lifestyle
Results: Alcohol Communication

Motivation / Intentions

Motivation

Intentions

PNF

Control

* $p < 0.05$
Student Outcomes

• **Limited effects**
  – No effects for students who were moderate to heavy drinkers before college.
  – Males reported greater parent communication post intervention
  – No differences in alcohol outcomes
Students’ Perceptive

• More permissive communication common:
  – “To not drink too much. To be safe while drinking”
  – “Don't over do it.”
  – “Be careful when drinking”
  – “She trusts me in making the right decisions”

• Control parents discussed alcohol.
Summary

• Parents are amenable to web-based normative feedback
• Parents who received PNF report greater motivation to discuss alcohol
• Male students report discussing more alcohol topics with parents
• No post interventions differences in alcohol use
Study 3

- Examines the effects of an in person social norms parent intervention.
- Randomized control design study
- Assesses student outcomes up to 6 months post intervention
- Ongoing data collection
- Does an in-person norms intervention paired with tips on how to communicate result in greater parent communication and reductions in student alcohol risk during the transition to college?
Participants \((N = 375 \text{ students})\)

• **Student Demographics:**
  – Mean age = 17.7 yrs
  – 60.3% Female
  – 62.7% Caucasian
  – 25.1% Non-drinkers

• **Intervention Parent Demographics:**
  – 66.6% Female
Procedure

1. 3 weeks before summer orientation
   • Students recruited by email and letter

2. 7 to 9 weeks before school
   • Parents attended 1 hour session during orientation

3. 1 month after start of school
   • Students complete 1st follow-up survey

4. 6 months after start of school
   • Students complete 1st follow-up survey
Intervention Content

• Interactive presentation
• Normative feedback
  – How much do you think the typical student drinks?
  – How much will your child drink?
  – How much do you think it is acceptable for your child to drink?
  – How much does a typical parent think it is acceptable for his or her child to drink?
How many drinks per week do you think the typical female student consumes?

All women ~ 5 drinks per week

Women who drink ~ 8 drinks per week

17% of female students drink 10+ drinks per week
How many drinks per week will your daughter consume in college?

All women ~ 5 drinks per week

Women who drink ~ 8 drinks per week

17% of female students drink 10 or more drinks per week
Key Points

1. Talk about drinking
   - You are the expert
   - Starting a conversation
   - Testing assumptions

2. Attitudes and Expectations
   - Communicate expectations
   - More permissive attitudes associated with greater drinking

3. Ongoing conversations
   - Hypothetical situations
   - Parents matter
1 month Student Data

Abstainers

Percent

Control

Intervention
1 month Student Data

Baseline Drinkers

% binge drinkers

Control

Intervention
Summary

• Evidence of positive short-term effects
  – 6 month data
• Effects not due to increases in monitoring or communication.
Take Away

• Norms-based PBIs may be useful for motivating conversations, but may not be sufficient unless paired with information on content.
  – Encouraging less permissive communication may be beneficial.

• More research needed.
Thank you!

Questions?

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Common Parent Questions

• Should I talk about my own college drinking?
• Why do students drink?
• What about marijuana and other drugs?
References


