

A BRIEF MINDFULNESS
INTERVENTION TO
DECREASE BINGE
DRINKING AMONG
COLLEGE STUDENTS:
A CONTROLLED STUDY

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Background: College Alcohol Use and Mindfulness-Based Strategies

- Binge Drinking among College Students:
 - High Prevalence
 - Array of Negative Consequences
 - Interventions have small effects
- Need for Novel Approaches
 - Mindfulness as an intervention strategy?





(Baer, 2002; Bowen et al., 2007; 2011; Carey et al., 2007; Charles, 2011; Kabat-Zinn, 1994; Wechsler & Nelson, 2008)

Overview of the Current Study

- Primary Aim:
 - To assess the impact of a brief mindfulness intervention on subsequent patterns of alcohol use among college students who report binge drinking
- Participant Recruitment
 - Inclusion/Exclusion Criteria



Research Objectives and Hypotheses

- Assess for feasibility and participant satisfaction.
 - No formal hypotheses made.
- Assess the impact of a brief mindfulness intervention on alcohol related behaviors in the four weeks following the intervention.
 - It was hypothesized that the Mindfulness Group would report:
 - Fewer Binge Episodes (Hypothesis 1a)
 - Less Consequences of Alcohol Use (Hypothesis 1b)



Participant Characteristics

- •N = 76 undergraduate students
- •Mean Age: 19.05 (SD = 1.19)
- •50% Female
- •54% Freshmen
- Primarily Caucasian (91%)
- Alcohol Use at baseline (past 4 weeks assessed):
 - Mean: 5.12 binge episodes
 - Range: 1-16 binge episodes





Measures

- Alcohol Timeline Followback Method (Sobell & Sobell, 1993)
 - Semi-structured interview to assess daily alcohol use
 - Assessed at baseline and weekly for four weeks
- Rutgers Alcohol Problem Index (White & Labouvie, 1989)
 - Consequences of Alcohol Use
 - Assessed at initial and 5th Session
- Participant Rating Form
 - Mindfulness Group only
 - Assessed comprehension, interest, perceived helpfulness and intention to use skills
 - Assessed after each part of the Mindfulness Intervention

Session Procedures

- Participants were randomly assigned to a Mindfulness Group or a Control Group
- Assessments: conducted weekly for five weeks
- Control Group:
 - Assessment Only
- Mindfulness Group:
 - Initial Session: 40 minute Brief Mindfulness Intervention
 - 3rd Session: 25 minute "booster" Mindfulness Practice
 - 60 minutes of out-of-session mindfulness meditation practice for four weeks
- Participant Compensation

Brief Mindfulness Intervention

- N=38
- Initial Session:
 - General Guiding Principles of Intervention
 - Mindfulness Handout
 - Mindfulness Instructions and Breathing Exercise (UCLA, MARC, 2009)
 - Urge Surfing Exercise (MBRP, 2011; Marlatt, 1994)
- Third Session:
 - Mindfulness Meditation for Awareness of Emotions (Goldstein & Goldstein, 2008)
- Out-of-session practice

Results



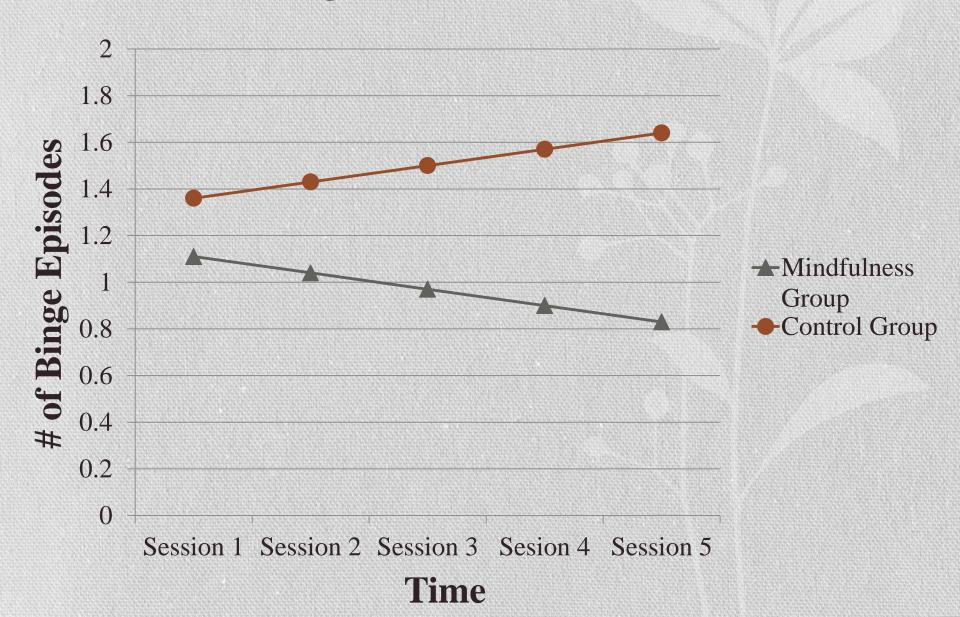
- Feasibility supported by:
 - Low attrition and few missed sessions
 - Compliance with out-of-session mindfulness practice
 - High participant ratings of Interest,
 Comprehension and Perceived Helpfulness



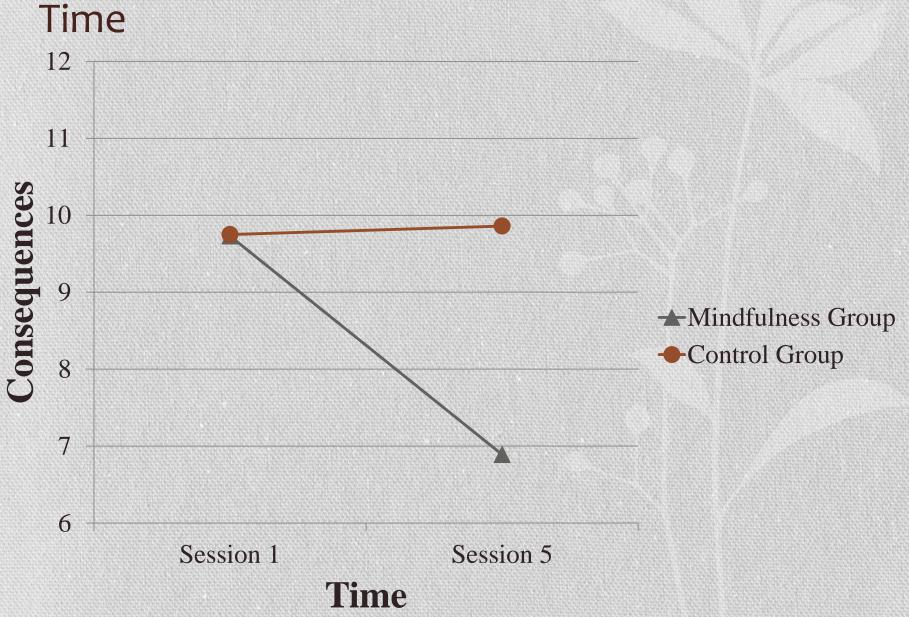
Results

- Significant Group by Session Interaction for:
 - Binge Episodes
 - Linear Mixed Models used to estimate change in binge episodes over time by group
 - Consequences of Alcohol Use
 - Mixed Model ANOVA used to estimate consequences by group

Number of Binge Episodes by Group over Time



Consequences of Alcohol Use by Group over





Discussion

- 1st Study to apply Mindfulness-Based Strategies to a College Sample of Binge Drinkers
- Support for Feasibility and Participant Satisfaction
- Findings offer preliminary evidence for effectiveness
 - Decreased Frequency of Binge Episodes (Cohen's d = .86)
 - Fewer Consequences of Alcohol Use (Cohen's d = .49)
 - Offers support for harm reduction model



Limitations and Future Directions

- Durability of effect?
 - Longer Follow-Up Period
- Control Group:
 - Comparison with Active Control Group
- Generalizability and Implications:
 - Replication among College Populations
 - Extension to clinical populations as a brief intervention
 - Time and Cost-Effective
 - Use as a strategy to prevent escalation of use



THANK YOU! QUESTIONS?

