

Name of Program/Strategy: Challenging College Alcohol Abuse

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1. Overview and description

Challenging College Alcohol Abuse (CCAA) is a social norms and environmental management program aimed at reducing high-risk drinking and related negative consequences among college students (18 to 24 years old). The intervention was developed at the University of Arizona based on work previously done at Northern Illinois University. CCAA uses a campus-based media campaign and other strategies to address misperceptions about alcohol and make the campus environment less conducive to drinking. Studies have shown that college students tend to perceive their peers' level of drinking to be higher than it actually is, which in turn influences their own drinking behavior. CCAA's media campaign addresses these misperceptions by (1) communicating norms using data from surveys conducted at the university, (2) educating students on less-known or less-understood facts related to alcohol, and (3) offering an opportunity to change the "public conversation" around alcohol use among students, staff, and the local community. Advertisements and articles in the school newspaper, press releases, campus displays, and other media are used to communicate factual information about alcohol and drugs and related topics such as health and wellness, sexual assault, and sexually transmitted diseases. CCAA provides small grants to fund and promote non-alcohol social events that compete with traditional drinking occasions. Some media coverage is targeted to higher-risk groups such as fraternity and sorority chapters, freshmen, women, and students living in residence halls. CCAA also includes components aimed at faculty and staff,

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parents, and the local community, such as encouraging increased restrictions and monitoring of on-campus and off-campus alcohol use.

2. Implementation considerations (if available)

3. Descriptive Information

Areas of Interest	Substance abuse prevention
Outcomes	1: Heavy drinking 2: Frequent drinking 3: Attitudes/beliefs related to alcohol 4: Consequences of alcohol and drug use
Outcome Categories	Alcohol Drugs
Ages	18-25 (Young adult)
Genders	Male Female
Races/Ethnicities	Data were not reported/available
Settings	School Other community settings
Geographic Locations	Urban
Implementation History	CCAA was first implemented at the University of Arizona in 1994. It has been continually implemented, evaluated, and refined each year since then, and as of 2007 continues to be an active component of the university's Campus Health Service.
NIH Funding/CER Studies	Partially/fully funded by National Institutes of Health: No Evaluated in comparative effectiveness research studies: No
Adaptations	The University of Arizona CCAA staff has received funding to implement and evaluate social norms campaigns targeting specific at-risk groups, such as freshmen and sorority and fraternity members, in addition to the general undergraduate media campaign.
Adverse Effects	No adverse effects, concerns, or unintended consequences were identified by the applicant.
IOM Prevention Categories	Universal

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4. Outcomes

Outcome 1: Heavy drinking

Description of Measures	This outcome was measured using an item on the Core Alcohol and Drug Survey. Researchers surveyed samples of freshmen at the University of Arizona in 1995, 1997, and 1998 (while CCAA was being implemented). Students were asked how often they had five or more drinks per occasion in the last 2 weeks.
Key Findings	Over 3 years of implementing CCAA at the university (1995 to 1998), the percentage of surveyed freshmen who reported having five or more drinks per occasion at least once in the last 2 weeks decreased from 43% to 31% ($p < .01$).
Studies Measuring Outcome	Study 1
Study Designs	Pre-Experimental
Quality of Research Rating	2.5 (0.0-4.0 scale)

Outcome 2: Frequent drinking

Description of Measures	This outcome was measured using an item on the Core Alcohol and Drug Survey. Researchers surveyed samples of freshmen at the University of Arizona in 1995, 1997, and 1998 (while CCAA was being implemented). Students were asked how often they used alcohol within the last year. Frequent drinking was defined as drinking alcohol three or more times per week.
Key Findings	Over 3 years of implementing CCAA at the university (1995 to 1998), the percentage of surveyed freshmen who reported using alcohol three or more times per week in the past year decreased from 22% to 17% ($p < .05$).
Studies Measuring Outcome	Study 1
Study Designs	Pre-Experimental
Quality of Research Rating	2.5 (0.0-4.0 scale)

Outcome 3: Attitudes/beliefs related to alcohol

Description of Measures	This outcome was measured using items on the Health Enhancement Survey. Researchers surveyed all members of fraternity/sorority houses and residence halls at the University of Arizona in 1996, 1997, and 1998 (while CCAA was being
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	implemented). Students were asked about alcohol-related knowledge, attitudes, and perceptions (e.g., how much college students drink when they party, how they feel and how they think others feel about alcohol-free parties and school events, and the relationship between drinking and sexual opportunity).
Key Findings	<p>Comparisons between 1996 and 1998 survey data revealed that over 2 years of implementing CCAA:</p> <ul style="list-style-type: none"> • The percentage of survey respondents who said they believed "most college students have five or more drinks when they party" decreased from 58% to 40% ($p < .01$). • The percentage who said they believed "most [University of Arizona] students drink heavily during spring break" decreased from 85% to 78% ($p < .01$). • The percentage who said they believed "drinking alcohol increases sexual opportunity" decreased from 61% to 52% ($p < .01$). • The percentage who said they believed "alcohol-free events are not as much fun as events with alcohol" decreased from 37% to 27% ($p < .01$). • The percentage who said they "would rather go to a party that served alcohol than one that did not" decreased from 58% to 48%. • The percentage who said they believed "most college students are not interested in alcohol-free events" decreased from 51% to 41% ($p < .01$).
Studies Measuring Outcome	Study 1
Study Designs	Pre-Experimental
Quality of Research Rating	1.9 (0.0-4.0 scale)

Outcome 4: Consequences of alcohol and drug use

Description of Measures	This outcome was measured using items on the Core Alcohol and Drug Survey. Researchers surveyed samples of freshmen at the University of Arizona in 1995, 1997, and 1998 (while CCAA was being implemented). Students were asked about consequences of alcohol and drug use in the past year (e.g., getting into a fight or argument, getting into trouble with campus police or other campus authorities, memory loss, being taken advantage of sexually, doing poorly on a test or project, and missing class).
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Key Findings	<p>Comparisons between 1995 and 1998 survey data revealed that over the course of 3 years of implementing CCAA:</p> <ul style="list-style-type: none"> • The percentage of survey respondents who reported getting into a fight or argument after drinking alcohol in the past year decreased from 32% to 20% ($p < .01$). • The percentage who reported getting into trouble with campus police or other campus authorities in the past year after alcohol or drug use decreased from 18% to 6% ($p < .01$). • The percentage who reported a memory loss in the past year after alcohol or drug use decreased from 33% to 24% ($p < .05$). • The percentage who reported being taken advantage of sexually in the past year after alcohol or drug use decreased from 15% to 8% ($p < .05$). • The percentage who reported doing poorly on a test or project in the past year after alcohol or drug use decreased from 22% to 15% ($p < .05$). • The percentage who reported missing class in the past year after alcohol or drug use decreased from 34% to 25% ($p < .05$).
Studies Measuring Outcome	Study 1
Study Designs	Pre-Experimental
Quality of Research Rating	2.5 (0.0-4.0 scale)

5. **Cost effectiveness report (Washington State Institute of Public Policy – if available)**

6. **Washington State results (from Performance Based Prevention System (PBPS) – if available)**

7. **Where is this program/strategy being used (if available)?**

Washington Counties	Oregon Counties

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8. Study Populations

The studies reviewed for this intervention included the following populations, as reported by the study authors.

Study	Age	Gender	Race/Ethnicity
Study 1	18-25 (Young adult)	70.2% Female 29.8% Male	Data not reported/available

9. Quality of Research

The documents below were reviewed for Quality of Research. Other materials may be available. For more information, contact the developer(s).

Study 1

Glider, P., Midyett, S. J., Mills-Novoa, B., Johannessen, K., & Collins, C. (2001). Challenging the collegiate rite of passage: A campus-wide social marketing media campaign to reduce binge drinking. *Journal of Drug Education*, 31(2), 207-220.

Supplementary Materials

Johannessen, K. (2000). Challenging the collegiate rite of passage: The University of Arizona. Final Report.

Johannessen, K., Glider, P., Collins, C., Hueston, H., & DeJong, W. (2001). Preventing alcohol-related problems at the University of Arizona's Homecoming: An environmental management case study. *American Journal of Drug and Alcohol Abuse*, 27(3), 587-597.

Quality of Research Ratings by Criteria (0.0-4.0 scale)

External reviewers independently evaluate the Quality of Research for an intervention's reported results using six criteria:

1. Reliability of measures
2. Validity of measures
3. Intervention fidelity
4. Missing data and attrition
5. Potential confounding variables
6. Appropriateness of analysis

For more information about these criteria and the meaning of the ratings, see Quality of Research.

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Outcome	Reliability of Measures	Validity of Measures	Fidelity	Missing Data/Attrition	Confounding Variables	Data Analysis	Overall Rating
1: Heavy drinking	3.0	3.5	2.5	N/A	1.0	2.5	2.5
2: Frequent drinking	3.0	3.5	2.5	N/A	1.0	2.5	2.5
3: Attitudes/beliefs related to alcohol	2.0	2.0	2.5	N/A	0.5	2.5	1.9
4: Consequences of alcohol and drug use	3.0	3.5	2.5	N/A	1.0	2.5	2.5

Study Strengths

The Core Alcohol and Drug Survey is an established instrument. Internal consistency of measures was tested. While many claim that media campaigns can be effective in setting norms and affecting perceptions of norms (for better or worse), few studies have actually demonstrated the strength of this relationship, and even fewer have done so with college students.

Study Weaknesses

Test–retest reliability of instruments was not assessed. While the author noted the instruments had "concurrent validity," the exact meaning of this validity was not clear. The Health Enhancement Survey had content validity only. The relatively low response rates to the Core Alcohol and Drug Survey make response bias a concern, particularly given that it is not known whether survey respondents are representative of all college freshmen. The investigators did not meet the sample size and desired return rates recommended by the developer of the Core Alcohol and Drug Survey (South Illinois University Carbondale). History is also a threat to internal validity, as other policy changes occurred concurrently.

10. Readiness for Dissemination

The documents below were reviewed for Readiness for Dissemination. Other materials may be available. For more information, contact the developer(s).

Dissemination Materials

Class outlines and materials

Evaluation instruments and protocols

Johannessen, K., Collins, C., Mills-Novoa, B., & Glider, P. (1999). A practical guide to alcohol abuse prevention: A campus case study in implementing social norms and environmental management approaches. Tucson, AZ: University of Arizona Campus Health Service. Retrieved January 2007 from <http://www.socialnorms.campushealth.net/images/guidebook-files/guidetoalcoholprevention.pdf>

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Program Web site, <http://www.socialnorms.campushealth.net>

University of Arizona Campus Health Service posters and newsletters

Readiness for Dissemination Ratings by Criteria (0.0-4.0 scale)

External reviewers independently evaluate the intervention's Readiness for Dissemination using three criteria:

1. Availability of implementation materials
2. Availability of training and support resources
3. Availability of quality assurance procedures

For more information about these criteria and the meaning of the ratings, see Readiness for Dissemination.

Implementation Materials	Training and Support Resources	Quality Assurance Procedures	Overall Rating
2.3	1.5	2.5	2.1

Dissemination Strengths

The program Web site describes the five-step implementation process and offers links to a variety of materials and tools that could be adapted by a potential implementer. Numerous surveys and focus-group outlines are provided to help measure the intervention's impact. The online guide provided also devotes a chapter to outcome measurement and offers recommendations to future implementers on developing appropriate evaluations.

Dissemination Weaknesses

While the implementation materials describe in general terms what program components are required for replication, adapting the program in other localities may be difficult because all of the materials are specific to the development site (University of Arizona). No structured training program is offered for prospective implementers, and no ongoing training or mentoring is provided for campuses in the process of implementing the program. Intervention fidelity standards are not explicit. No guidance is provided for using or interpreting results from the included survey instruments.

11. Costs

The information below was provided by the developer and may have changed since the time of review. For detailed information on implementation costs (e.g., staffing, space, equipment, materials shipping and handling), contact the developer.

Item Description	Cost	Required by Program Developer
A Practical Guide to Alcohol Abuse Prevention, posters, newsletters	Free	Yes

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Training, support, and quality assurance information	Contact the developer	Contact the developer
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Additional Information

The cost for 1 year's implementation of the CCAA social norms media campaign, including staff time and materials development, is approximately \$25,000. Additional staff time for environmental management, survey development, administration and analysis, and consultation and supplies is an additional cost of approximately \$25,000.

12. Contacts

For information on implementation or research:

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Learn More by Visiting: <http://www.socialnorms.campushealth.net> OR <http://www.health.arizona.edu>