

The Social Norms Approach to Reducing Alcohol Use among High School and College Students

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August 5, 2009

Agenda

- DeJong
 - Results of the Social Norms Marketing Research Project
- Farnum
 - Challenges of using social norms marketing in the high school setting
- Discussion

Students have exaggerated views
of how much other students drink

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graph TD; A[Students have exaggerated views of how much other students drink] --> B[Students perceive greater normative expectations to drink]; B --> C[Students increase alcohol consumption];
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Students perceive greater
normative expectations to drink

Students increase alcohol
consumption

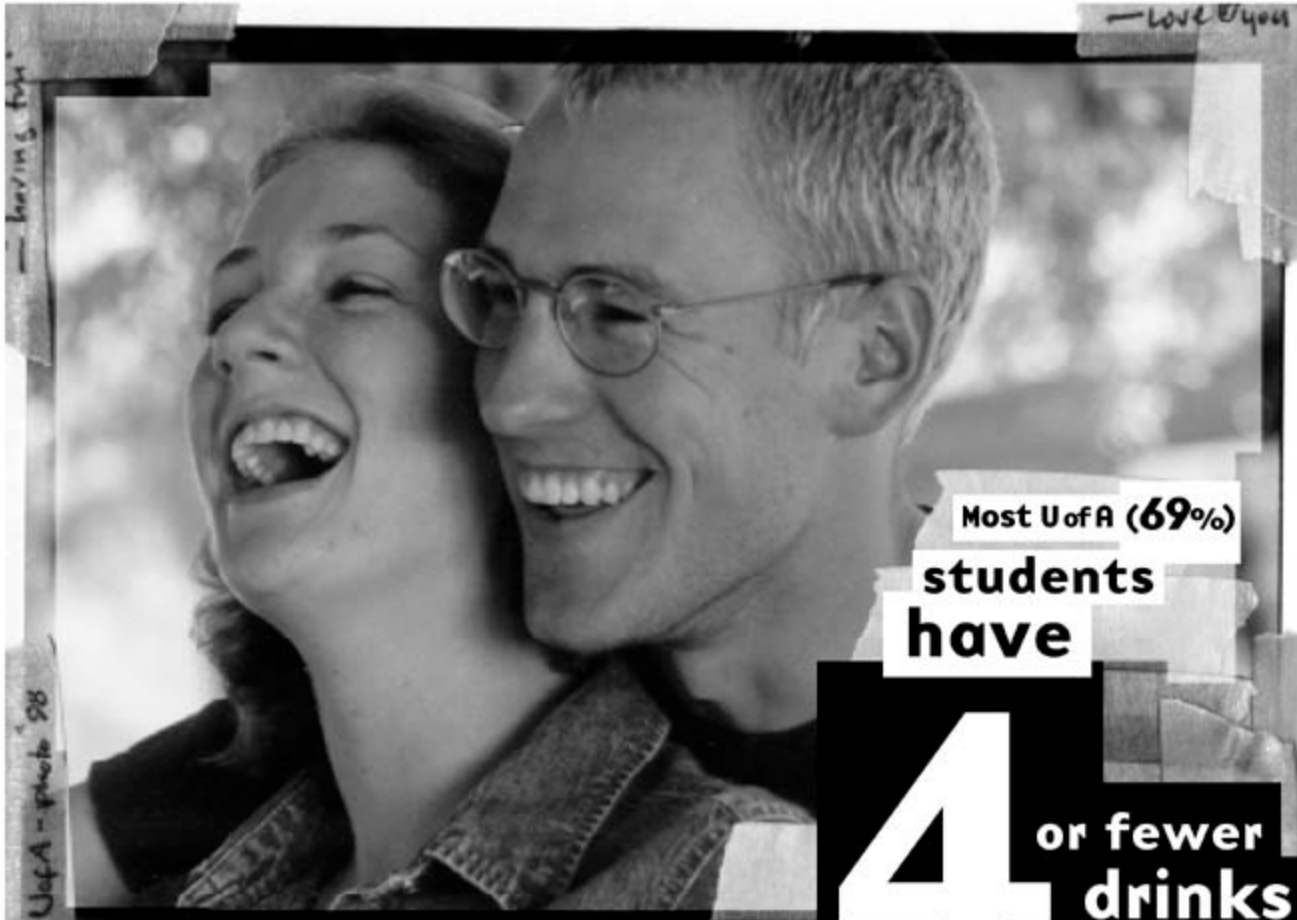
Social Norms Marketing

Use campus-based media to report accurate drinking norms

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graph TD; A[Use campus-based media to report accurate drinking norms] --> B[Decrease in perceived normative expectations to drink]; B --> C[Decrease in alcohol consumption];
```

Decrease in perceived normative expectations to drink

Decrease in alcohol consumption



Most UofA (69%)
students
have

4 or fewer
drinks

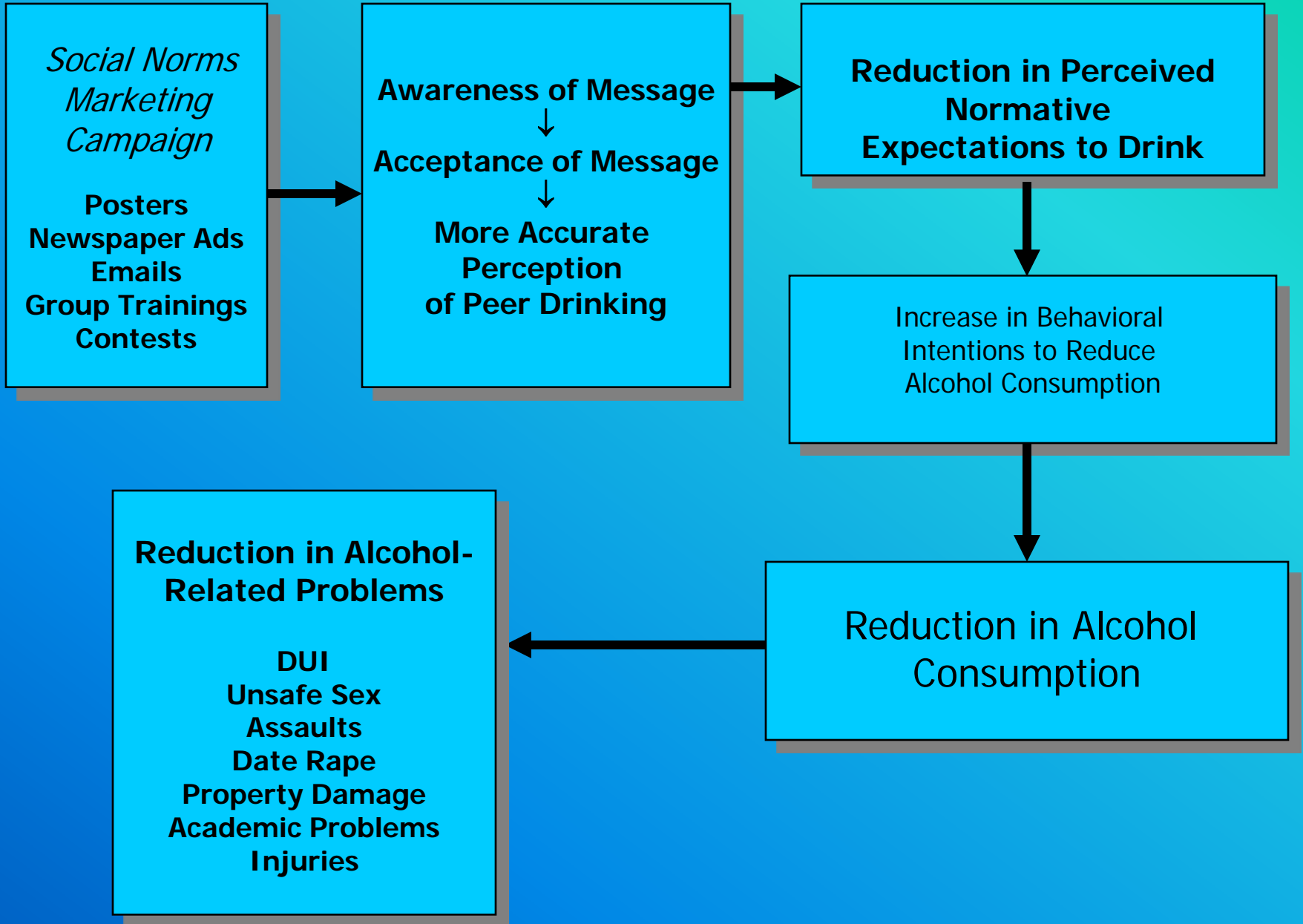
• 1 drink = one 12 oz. beer = 4-5 oz. wine = 1 oz. liquor



*Based on survey data collected by
Campus Health Service (1998) from 317
U of A students in a randomly selected
mailing.

Funded by the US Dept. of Health and Human Services.

when they party



Early Case Studies

Impact on Heavy Drinking Rates

- ***University of Arizona (3 years)***
 - 5+ drinks in one sitting in the past 2 weeks
 - 40% \Rightarrow 31%
 - Message changed from 0—5 to 0—4 drinks
- ***Hobart and William Smith Colleges (3+ years)***
 - Drinking 5+ in a row 3-plus times in the last 2 weeks
 - 41% \Rightarrow 28%

Social Norms Marketing Research Project

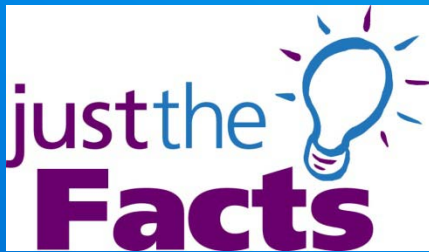
**National Institute on Alcohol
Abuse and Alcoholism
U.S. Department of Education
*R01 AA 12471***

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Laura Gomberg Towvim, MSPH, Project Director
Shari Kessel Schneider, MSPH, Research Director
Emily E. Doerr, Research Assistant
Melissa J. Murphy, Research Assistant**

Social Norms Marketing Research Project

Findings for Study 1

Cohort A = 18 Colleges and Universities



Selection of Participating Institutions

- **AOD coordinators received open invitation**
- **Applicants completed questionnaire**
 - **Never had a social norms campaign**
 - **Willing to be in control group, if assigned**
 - **Demonstrated commitment to the project**
- **Secured IRB approval (Study 1 = 18 sites)**
- **Matched schools into pairs (based on region, size, governance, student demographics)**
- **Randomly assigned one school from each pair to the treatment group**

Study Timeline: Study 1

Year 1

(1999-00)

Year 2

(2000-01)

Year 3

(2001-02)

Year 4

(2002-03)

Year 5+

(2003-05)

All Schools

Survey of College Alcohol Norms and Behavior →

Contextual data collection →

Treatment Group Schools (9)

Just the Facts Implementation →

Control Group Schools (9)

Just the Facts Implementation →

SNM Message Guidelines

Campaign messages must:

- ✓ **Be targeted to the entire undergraduate population**
- ✓ **Convey information about a behavior typical of a majority of students**
- ✓ **Correct an identified student misperception**
- ✓ **Be simple statements of fact (i.e., should not have a judgmental or moralistic tone)**



SNM Message Guidelines

(cont'd)

- **Campaign materials must include:**
 - ✓ Normative message
 - ✓ Campaign logo
 - ✓ Identification of the source of information (survey, date)
 - ✓ Drink equivalency line (i.e., “1 drink = 12 oz. beer = 4 oz. wine = 1 oz. liquor)
- **Print advertisements should include an eye-catching photograph**

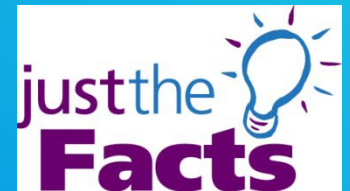
Campaign Messages*

	<u>Number of Schools</u>
[NAME] students have 0-5 drinks when they party.	1
[NAME] students have 0-5 drinks a week.	0
[NAME] students have 0-4 drinks when they party.	5
[NAME] students have 0-4 drinks a week.	1
[NAME] students have 0-3 drinks when they party.	1
[NAME] students have 0-3 drinks a week.	1

****Alternative wordings:***

[NAME] students have # or fewer drinks when they party.

[NAME] students have # or fewer drinks a week.

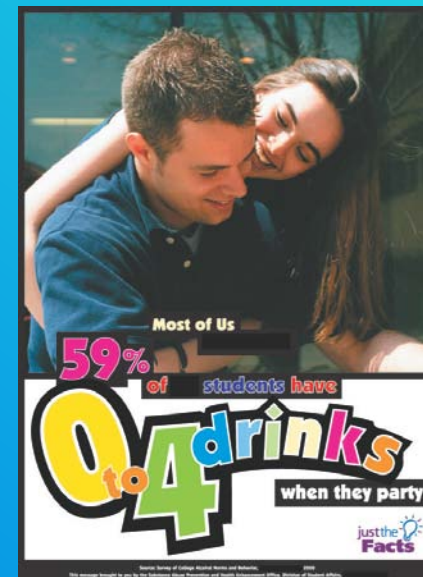


Media Channels

- Newspaper Ads
- Radio and TV ads
- Flyers/Posters
- Billboards
- Table Tents
- Mailing Inserts
- Item Giveaways
- Talks/Presentations
- Student Orientation
- Email Messages

\$2,000 per year (3 years)

\$300-\$1,650 per year
supplements (2 years)



Limited Campaign Exposure

55.4% of students reported seeing social norms information during the school year

Only 35.8% reported that this occurred a few times a month or more often

just the **Facts**

67% of **STUDENTS**

HAVE 4 OR FEWER DRINKS

WHEN THEY PARTY

For more information:
Student Wellness Office 494-BELL

1 DRINK = 12 OZ BEER = 4OZ WINE = 1OZ LIQUOR

Findings	Treatment Group		Control Group	
	2000 <i>n</i> =1,515 M (SD)	2003 <i>n</i> =1,536 M (SD)	2000 <i>n</i> =1,406 M (SD)	2003 <i>n</i> =1,365 M (SD)
Greatest number of drinks on one occasion in past two weeks	3.57 (4.57)	3.95 (4.86)	3.44 (4.39)	4.30 (5.17)
BAC for greatest number of drinks on one occasion in past two weeks	.0830 (.0979)	.0859 (.1023)	.0804 (.0911)	▲ .0945 (.1072)
Drinks when students party	3.30 (3.34)	3.57 (3.48)	3.20 (3.26)	3.85 (3.70)
Drinks per week	4.67 (7.92)	4.62 (8.00)	4.61 (7.93)	5.24 (8.43)

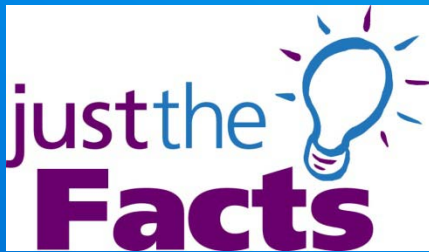
Study 1: Summary

- ***Relative risk of alcohol consumption was lower at schools with a JTF campaign***
- **Pattern:**
 - **Minor changes at treatment group schools**
 - **Heavier alcohol consumption at control schools**
- **Core Institute data suggest a national trend for increased heavy drinking between 2000 and 2003**

Social Norms Marketing Research Project

Findings for Study 2

Cohort B = 14 Colleges and Universities



Findings	Treatment Group		Control Group	
	2001 <i>n=1,117</i> M (SD)	2004 <i>n=979</i> M (SD)	2001 <i>n=1,199</i> M (SD)	2004 <i>n=1,063</i> M (SD)
Greatest number of drinks on one occasion in past two weeks	4.87 (5.00)	5.12 (5.84)	4.70 (4.91)	4.78 (5.23)
BAC for greatest number of drinks on one occasion in past two weeks	.1364 (.1003)	.1420 (.1107)	.1337 (.0970)	.1296 (.0990)
Drinks when students party	4.33 (3.63)	4.35 (4.00)	4.16 (3.55)	4.37 (3.85)
Drinks per week	6.07 (8.50)	6.59 (10.37)	6.24 (8.85)	6.20 (9.16)

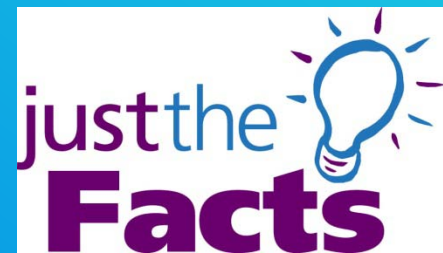
Overall Summary

Study 1

Students attending an institution with a SNM campaign have a lower relative risk of heavy alcohol consumption

Study 2

Replication failure



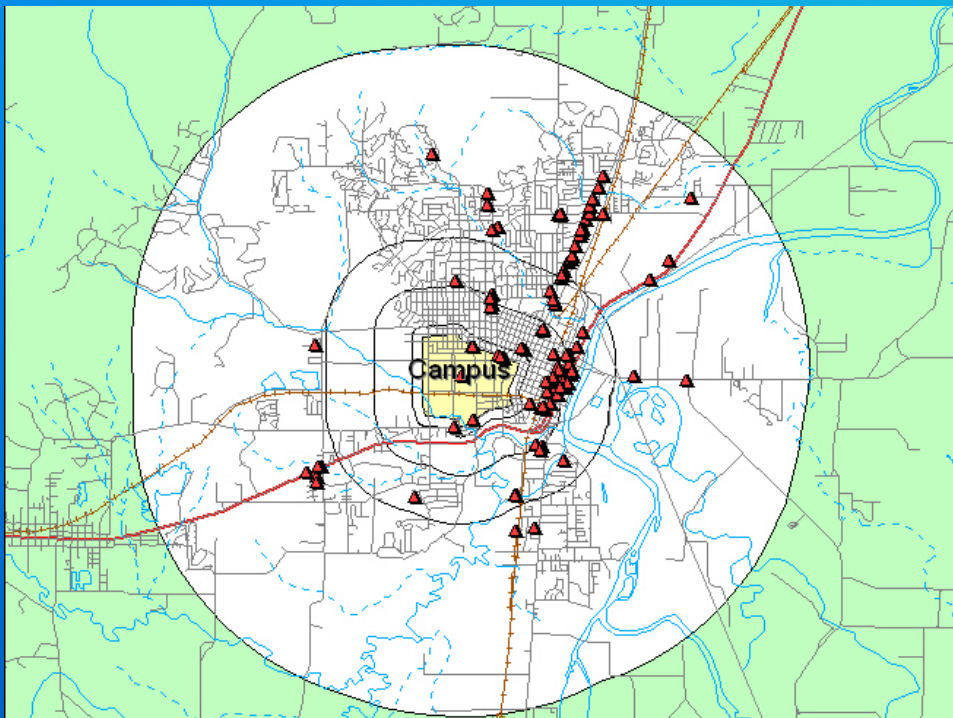
Social norms marketing campaigns are less likely to work in campus communities with high alcohol outlet density.

– Richard Scribner, LSU



Alcohol Outlet Density

Number of on-premise alcohol outlets within 3 miles of campus boundary, per 1,000 total students enrolled



Range = 2.3 to 128.0

Median = 10.78

High density =
10.78+ outlets per 1,000
enrolled

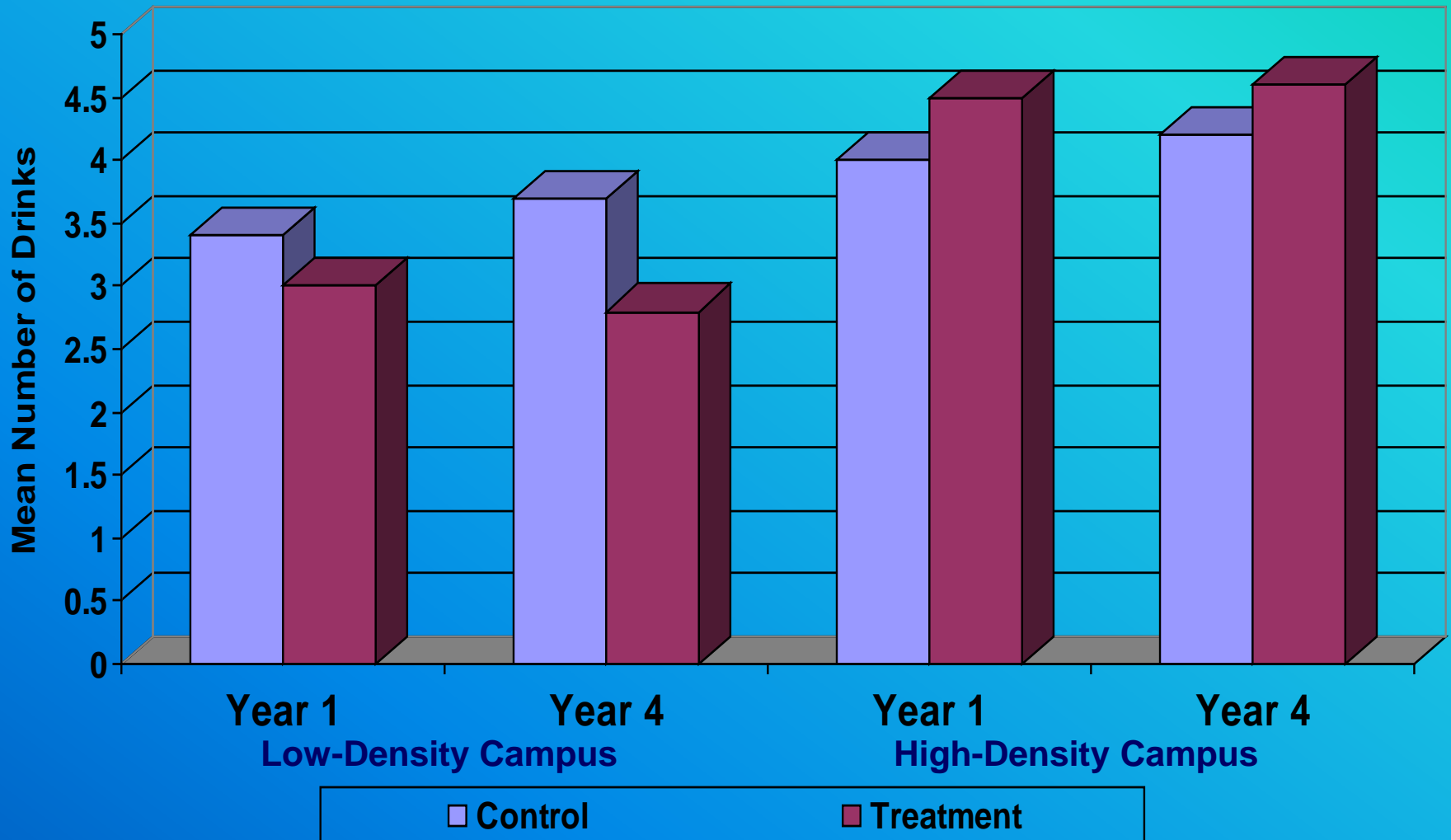
Summary

- **Significant interaction between on-premise alcohol outlet density and the intervention effect**

Experimental Group x Time x Outlet Density

- Number of drinks when partying
 - Recent maximum consumption
 - Composite drinking scale
- **High density: no intervention effect**
 - **Low density: intervention effect**

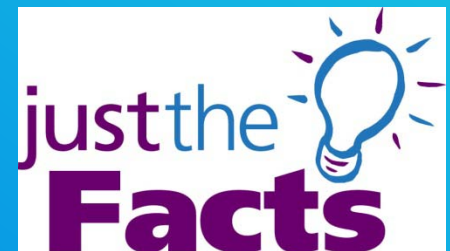
Mean Number of Drinks When Partying by Experimental Group & Alcohol Outlet Density



Alcohol Outlet Density

Explains Study 1 v. Study 2 Results

- ***Study 1:***
 - 18 sites, 5 at or above the median
 - 3 treatment group sites
 - 2 control group sites
- ***Study 2:***
 - 14 experimental sites, 11 at or above the median
 - 6 treatment group sites
 - 5 control group sites



Implications

- **Social norms marketing can work to reduce student alcohol use**
- **But it did *not* work as well in alcohol-rich environments**
 - **Need an even more intensive social norms marketing campaign**
 - **Need to work to change the campus community's alcohol environment**

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