Washington University School of Medicine Digital Commons@Becker

Posters

2003: Drinking and the High School Student

2003

Gender differences in the prevalence and patterns of alcohol use among 9th-12th graders in a St. Louis suburban high school

A. Ben Abdallah

Washington University School of Medicine in St. Louis

B. D. Glass

Washington University School of Medicine in St. Louis

E. L. Spitznagel

Washington University School of Medicine in St. Louis

L. B. Cottler

Washington University School of Medicine in St. Louis

Follow this and additional works at: http://digitalcommons.wustl.edu/guzeposter2003



Part of the Medicine and Health Sciences Commons

Recommended Citation

Ben Abdallah, A.; Glass, B. D.; Spitznagel, E. L.; and Cottler, L. B., "Gender differences in the prevalence and patterns of alcohol use among 9th-12th graders in a St. Louis suburban high school" (2003). Posters. Paper 15 Samuel B. Guze Symposium on Alcoholism. http://digitalcommons.wustl.edu/guzeposter2003/15

This Poster is brought to you for free and open access by the 2003: Drinking and the High School Student at Digital Commons@Becker. It has been accepted for inclusion in Posters by an authorized administrator of Digital Commons@Becker. For more information, please contact engeszer@wustl.edu.

Gender Differences in the Prevalence and Patterns of Alcohol Use Among 9th-12th Graders in a St. Louis Suburban High School

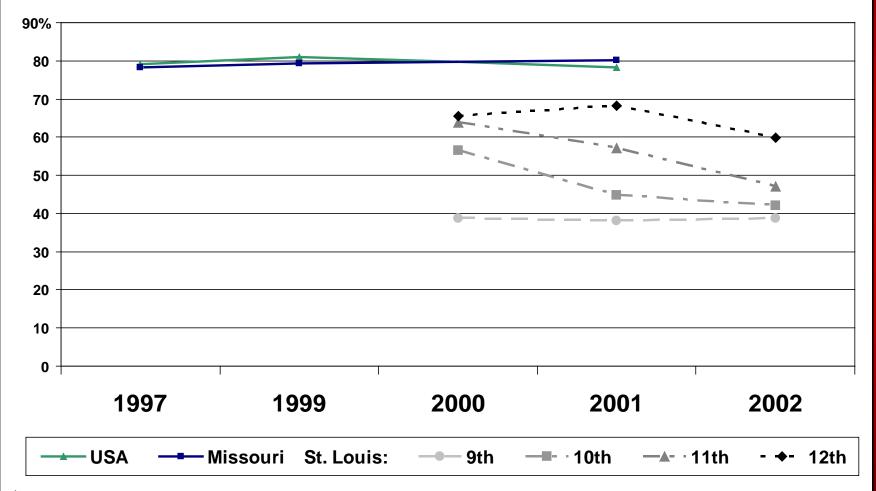
Ben Abdallah A, Glass BD, Spitznagel EL, Cottler LB Department of Psychiatry





Acknowledgments:	This work was supported by a grant from the Bickford Foundation.

Percent of High School Students Reporting Lifetime Use of Alcoholic Beverages in the USA[†], Missouri[†], and a Local St. Louis County High School (by Grade)

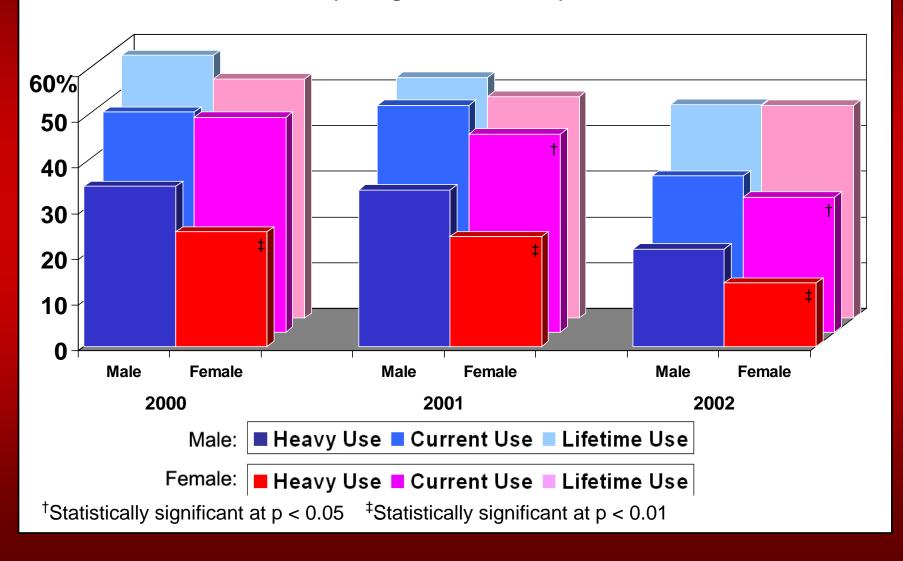


[†] Source: Youth Risk Behavior Surveillance System - The Center for Disease Control & Prevention – USA: 1991 – 2001.

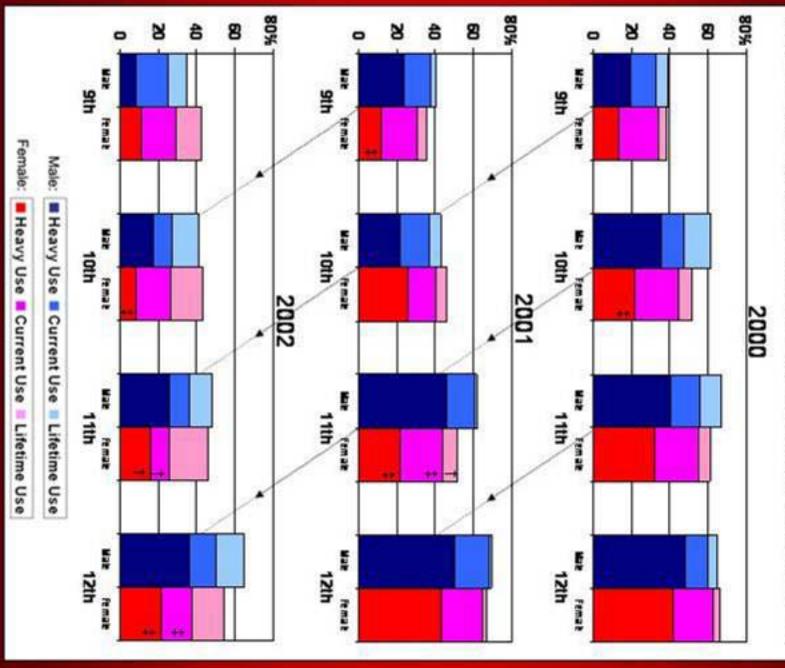
Characteristics of the High School Sample Participants Over the Entire Survey Period, 2000-2002

	Mean	%
Total School Population	1671	
Response Rate		80.0%
Rejection Rate (for Incompletion/Unusable	e)	4.0%
Gender Male Race White Black Other		48.9% 75.1% 23.8% 1.2%
Grade 9 th 10 th 11 th 12 th		27.0% 28.0% 24.0% 21.0%

Patterns of Alcohol Use Among 9th through 12th Graders in a St. Louis County High School by Gender, 2000-2002



in a St. Louis County High School by Year, Grade, and Gender, 2000-2002 Patterns of Alcohol Use Among 9th Through 12th Graders



Mean Number of Alcoholic Beverages Consumed 7 Days Prior to the Survey Among 9th Through 12th Graders Current Drinkers in a St. Louis County High School by Year, Grade, and Gender

		2000			2001			2002	
	N	Mean	Diff.	N	Mean	Diff.	N	Mean	Diff.
9 th Grade									
Male	51	15.5		75	15.0		39	5.9	
Female	66	7.2	8.3*	58	10.8	4.2	46	5.5	0.4
10 th Grade									
Male	85	17.6		59	16.6		54	10.2	
Female	80	10.7	6.9*	80	9.9	6.8*	51	5.7	4.5*
11 th Grade									
Male	78	16.8		106	20.5		51	17.4	
Female	78	14.9	1.9	76	11.7	8.8*	46	9.4	8.0*
12 th Grade									
Male	75	21.4		90	20.9		78	14.8	
Female	71	18.1	3.3	84	17.7	3.2	57	8.6	6.2*

^{*}Statistically significant at p < 0.05

Summary of ANOVAs* for the Mean Number of Alcohol Beverages Consumed by 9th Through 12th Graders in a St. Louis County High School, 2000-2002

Source	df	Sum of Squares	Mean Squares	F Value	R ²
Main Effects					
Gender	1	8056.2	8056.2	50.4 [‡]	0.012
Grade Level	3	22702.0	7567.3	47.3 [‡]	0.034
Survey Year	2	16584.3	8292.1	51.9 [‡]	0.025
Interaction w/ Year					
Gender 	2	410.7	205.3	1.28	0.000
Grade X Survey Year	2	2832.3	472.1	2.95^{\dagger}	0.004
Within Groups	3890	621832.9	159.9		
Total	3904	672418.3			

[‡] Statistically significant at p < 0.01

^{*}Because we were unable to block by subject due to anonymity, these results are conservative.

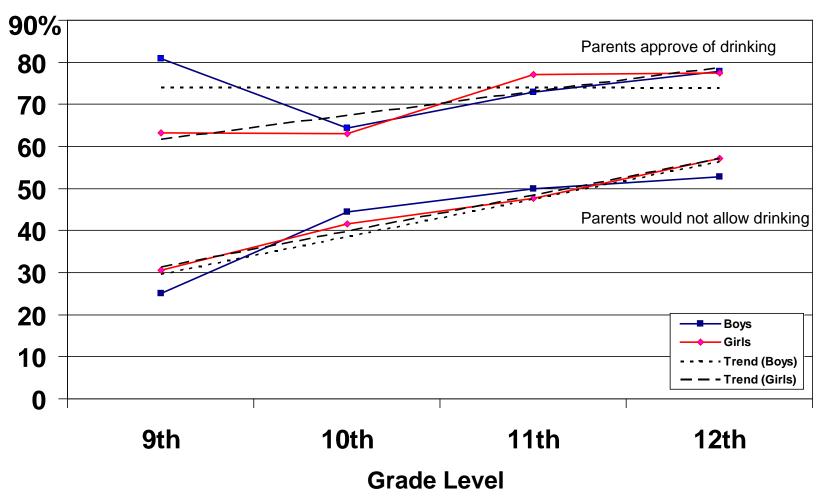
Negative Binomial Regression Model of the Number of Drinks Past 7 Days Among 9th Through 12th Grade Cohorts in a St. Louis County High School, 2000 - 2002

Grade Cohorts								
9 th		10 th		11 th		12 th		
Estimate	/ T-Value	Estimate	/ T-Value	Estimate	/ T-Value	Estimate A	/ T-Value	
1.63	5.50	2.27	9.66	2.42	10.56	2.98	13.88	
0.48	2.60	0.50	3.12	0.72	4.62	0.38	2.68	
-0.37	-2.79	-0.56	-5.45	-0.44	-4.20	-0.46	-4.83	
8.51	14.86	6.84	16.21	5.44	16.79	3.89	16.83	
-1713		-2137		-2268		-2314		
1049		1106		944		806		
	1.63 0.48 -0.37 8.51	Estimate / T-Value 1.63	9th 10 Estimate / T-Value Estimate 1.63 5.50 2.27 0.48 2.60 0.50 -0.37 -2.79 -0.56 8.51 14.86 6.84 -1713 -2137	9th 10th Estimate / T-Value Estimate / T-Value 1.63 5.50 2.27 9.66 0.48 2.60 0.50 3.12 -0.37 -2.79 -0.56 -5.45 8.51 14.86 6.84 16.21 -1713 -2137	9th 10th 11th Estimate / T-Value Estimate / T-Value Estimate 1.63 5.50 2.27 9.66 2.42 0.48 2.60 0.50 3.12 0.72 -0.37 -2.79 -0.56 -5.45 -0.44 8.51 14.86 6.84 16.21 5.44 -1713 -2137 -2268	9th 10th 11th Estimate / T-Value Estimate / T-Value Estimate / T-Value 1.63 5.50 2.27 9.66 2.42 10.56 0.48 2.60 0.50 3.12 0.72 4.62 -0.37 -2.79 -0.56 -5.45 -0.44 -4.20 8.51 14.86 6.84 16.21 5.44 16.79 -1713 -2137 -2268	9th 10th 11th 12th Estimate / T-Value Estimate / T-Value Estimate / T-Value Estimate / T-Value Estimate / Estimate / T-Value 1.63 5.50 2.27 9.66 2.42 10.56 2.98 0.48 2.60 0.50 3.12 0.72 4.62 0.38 -0.37 -2.79 -0.56 -5.45 -0.44 -4.20 -0.46 8.51 14.86 6.84 16.21 5.44 16.79 3.89 -1713 -2137 -2268 -2314	

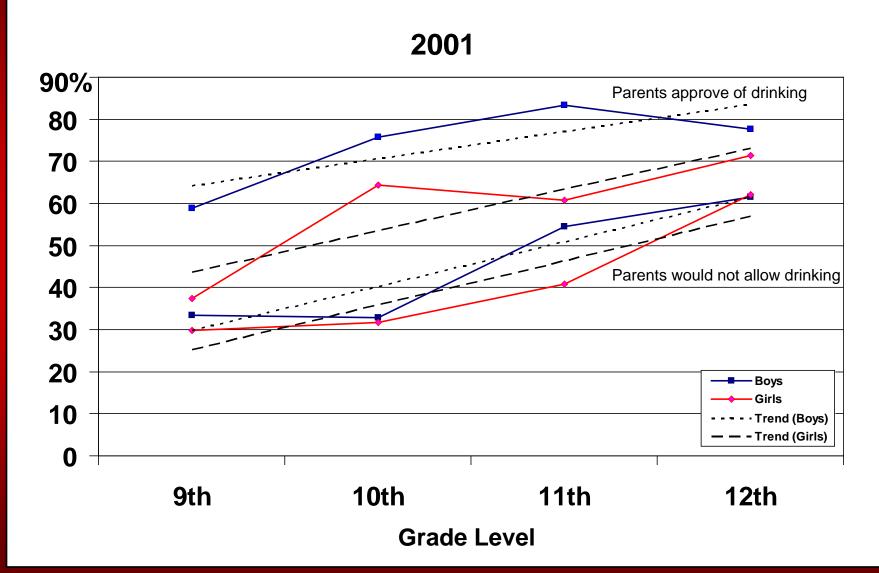
Note: all estimates were statistically significant at p < 0.05

Proportion Who Drink by Parental Leniency Status





Proportion Who Drink by Parental Leniency Status



Proportion Who Drink by Parental Leniency Status



