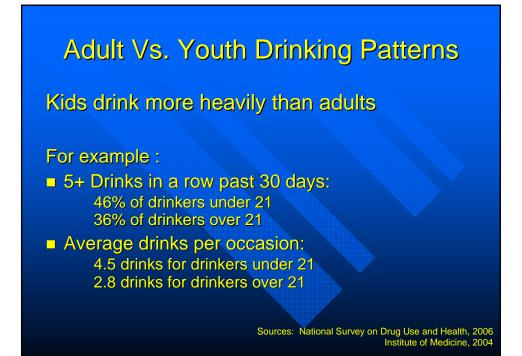
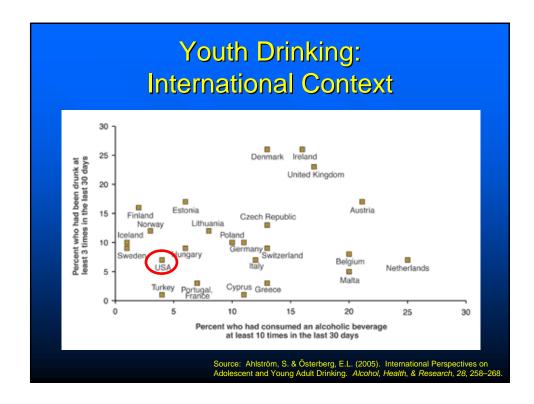
Preventing Adolescent Alcohol-Related Problems: Alcohol Policy Approaches

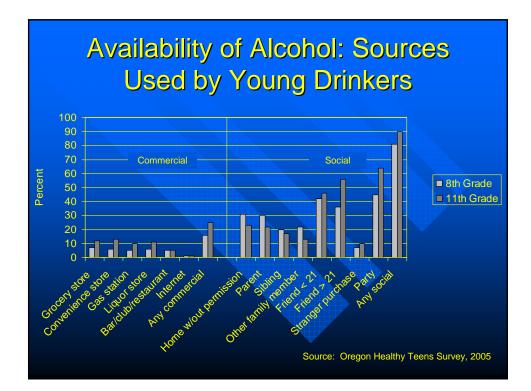
> Joel W. Grube Prevention Research Center Pacific Institute for Research and Evaluation Berkeley, CA USA

Long-Term Drinking Trends Among **High School Seniors** (1975 - 2006)100 90 80 70 Percent 60 - Annual 50 - 30-Day 5+ Drinks 40 30 20 10 0 Source: Johnston, O'Malley, Bachman, & Schulenberg, 2007



Virgi	nia	
(200	5)	
Problem	Costs (in millions)	
Youth Violence	\$541.5	
Youth Traffic Crashes	\$385.1	
High risk sex	\$117.1	
Youth Property Crime	\$53.4	
Youth Injury	\$43.5	
Poisonings and Psychoses	\$11.4	
FAS (Mothers 15-20)	\$20.5	
Youth Treatment	\$54.0	
TOTAL	\$1,226.4	







- Underage drinking, heavy drinking, and problems (DUI) increase as commercial and social availability increase
- Underage drinking and problems increase as perceived enforcement of MIP laws decreases
- Importance of social sources increases as commercial availability decreases
- Importance of commercial sources increases as social availability decreases

Source: Paschall, Grube, Black, & Biglan, 2006; Dent, Grube, & Biglan, 2005



Strong Evidence of Effectiveness

Price/Taxation

Strong evidence from many studies 10% increase in beer price \rightarrow 3% decrease in fatal crashes

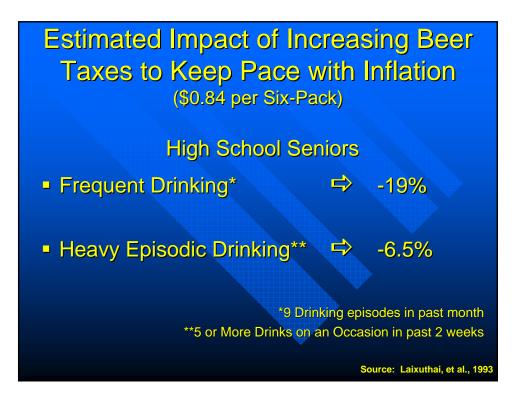
Minimum Legal Drinking Age

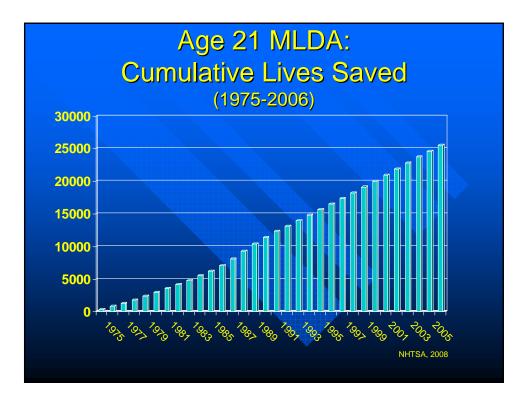
Strong evidence from many studies MLDA of 21 reduced drinking prevalence by 3% - 5% SVN crashes by 11% - 16%

Zero Tolerance/Graduated Licensing

Evidence from several studies

- $\approx \!\! 19\%$ reduction in drinking $\approx \!\! 24\%$ reduction in heavy episodic drinking $\approx \!\! 27\%$ reduction in alcohol-related crashes







Conflicting Evidence of Effectiveness

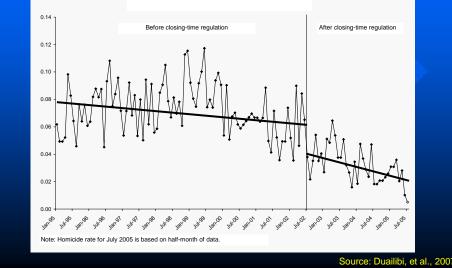
- Social Host Liability
 Limited mixed evidence
- Advertising Restrictions

Mixed evidence that advertising affects consumption Some evidence that restrictions reduce consumption Studies inconsistent

Hours of Sale

Mixed evidence Reductions in violence and injury



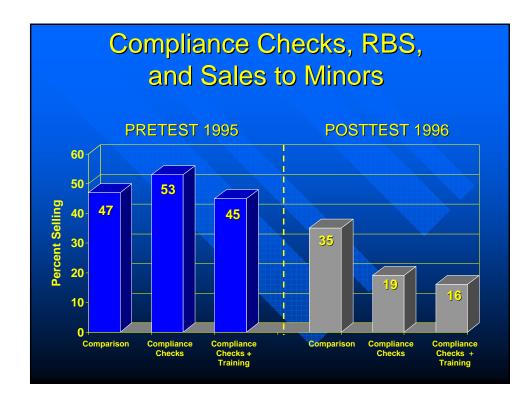


No or Insufficient Evidence

- Designated Driver Programs
 No available evidence of effectiveness
- Safe Rides Programs
 No evidence of effectiveness
- Warning Labels/Counter Advertising
 Evidence of no effect
- Keg Registration No evidence of effectiveness Cross-sectional correlation between KR and consumption -.29

Enforcement

- Sobriety Checkpoints
 17% reduction in nighttime crashes (Charlottesville)
 18%-24% alcohol-related fatal crashes
- Compliance checks 35%-50% reduction in sales to minors
- Third party Transactions/Shoulder taps Limited evidence
- MIP Enforcement Reduced consumption/heavy consumption
- Reward and Reminder Reduced sales and consumption



Example: Interaction of Alcohol Taxes and Drinking Age on Youth Traffic Fatalities

Estimated Traffic Fatalities per 1,000 Population

Drinking Age	Constant at Mean	Beer Tax Increases by 10%	% Change in Fatalities	
18	46.7	45.3	-3.1%	
19	45.3	44.1	-2.7%	
20	43.9	42.9	-2.3%	
21	42.5	41.7	-1.9%	
21 vs. 18	-8.9%	-7.9%		

Barriers to Effective Policy

- Complexity
- Perceived lack of public support
- Interest group opposition
- Lack of enforcement Difficult to detect (ZT) Reluctance to enforce (minor in possession) Costs (administrative vs. criminal proceedings)
- Lack of awareness

Percent of US Population Supporting Alcohol Policies

Proposed Policy	Favor Strongly	Favor Somewhat	Oppose Somewh at	Oppose Strongly
Increase alcohol taxes by 5 cents to fund prevention	65.0	16.8	5.7	12.6
Restrict alcohol ads to make drinking less appealing to youth	52.6	26.0	10.5	10.8
Conduct compliance checks	46.5	19.0	9.5	25.0
Require keg registration	39.9	21.3	15.3	23.5

Source: Harwood, Wagenaar, & Zander, 1998

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