Prospective associations between youth assets, community factors and youth binge drinking by race/ethnicity and income:

Results from the Youth Asset Study



Presenter Disclosures

Roy Oman

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No relationships to disclose

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Collaborators

- Oklahoma Institute for Child Advocacy
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Socio-Ecological Approach to Understanding and Preventing Youth Risk Behaviors

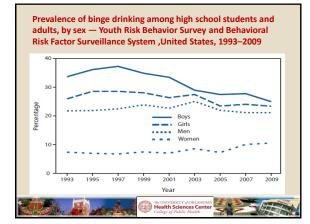
• Individual (youth)

- Assets, life events, behavior, attitudes, age, gender
- Family
 - Assets, Race/ethnicity, SES . Education
- Community
 - Assets, informal social control, public services, sense of community, neighborhood involvement, neighborhood conditions

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- Policy
 - indirect measures, study implications







Prevalence of current alcohol use and binge drinking, by demographic characteristics among 9th–12th grade students — Youth Risk Behavior Survey, United States, 2009 Current alcohol Use Binge Drinking Binge Drinking

	Current alcohol Us	e Binge Drinking	Binge Drinking
Characteristic			Current Alcohol Users
Total	41.8	24.2	60.9
<u>Sex</u>			
Male	40.8	25	64.1
Female	42.9	23.4	57.5
Race/Ethnicity			
White, non-Hispani	c 44.7	27.8	64.8
Black, non-Hispanic	33.4	13.7	43.5
Hispanic	42.9	24.1	59.3
Other, non-Hispanic	32.6	17.6	56.5
Grade			
9	31.5	15.3	51.1
10	40.6	22.3	58.2
11	45.7	28.3	64.6
12	51.7	33.5	67.4
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 Source for Binge Drinking Prevalence Data

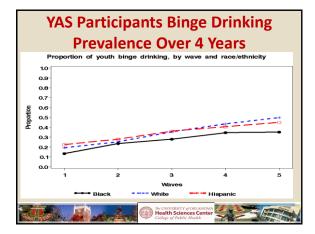
 Vital Signs: Binge Drinking Among High School Students and Adults — United States, 2009, Morbidity and Mortality Weekly Report, October 8, 2010, Vol. 59, No. 39

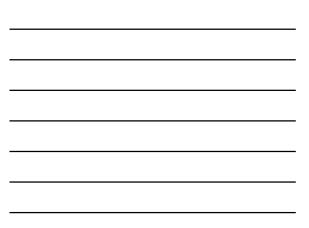
Purpose

 Investigate relationships among youth assets, neighborhood factors and youth binge drinking by:

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- race/ethnicity, and
- federal poverty level (FPL) - about \$18,000 for a family of four in 2002







- 17 assets summed and divided at the median to form a high- vs. low-asset variable
 - Median Number of Assets = 12
- Prospective Associations Tested
 - Assets measured at Waves 1, 2, 3, and 4 predicted binge drinking at Waves 2, 3, 4, or 5
 - Neighborhood factors at Wave 1 predicted binge drinking at Waves 2, 3, 4, or 5

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Methods (continued)

- Data analyzed using marginal logistic regression
 - Odd Ratios (ORs)
 - Significance level = p <0.05</p>
- Controlled for several demographic variables as appropriate
 - Gender, age, family structure, parental income, parental education, crowded house, federal poverty level, and wealth

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Log	Logistic Regression, Assets and Neighborhood Factors on Binge Drinking by Youth Race						
Youth Race		Adjusted Odds Ratio (95% Cls)					
	Assets	Broken Windows	Neighbor- hood Support	Informal Social Control	Sense of Comm.	Neighbor- hood Concerns Services	Neighbor- hood Concerns Crime
All	<mark>1.9</mark>	1.0	0.9	1.1	1.1	0.9	1.1
Youth	(1.6,2.3)	(0.9,1.1)	(0.7,1.2)	(0.9,1.3)	(0.8,1.6)	(0.8,1.1)	(0.9,1.3)
White	<mark>2.0</mark>	1.0	1.1	1.0	0.9,	0.9	1.0
	(1.5,2.6)	(0.9,1.1)	(0.8,1.6)	(0.8,1.7)	(0.6,1.2)	(0.7,1.2)	(0.8,1.3)
Black	<mark>1.8</mark>	1.0	0.9	1.2	0.9	0.9	1.1
	(1.2,2.6)	(0.9,1.0)	(0.6,1.5)	(0.8, 1.8)	(0.6,1.3)	(0.6,1.2)	(0.8,1.6)
Hispanic	1.8	1.0	0.6	1.1	1.0	1.0	1.1
	(1.3,2.5)	(0.9,1.1)	(0.4,1.1)	(0.8,1.6)	(0.8,1.4)	(0.7,1.4)	(0.8,1.5)
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Logistic Regression, Assets and Neighborhood Factors on Binge Drinking by % Federal Poverty Level							
% Fed Poverty Level	Adjusted Odds Ratio (95% Cis)						
	Assets	Broken Windows	Neighbor- hood Support	Informal Social Control	Sense of Comm.	Concerns re: Services	Concerns re: Crime
0%-	1.8	1.1	1.4	1.3	1.0	1.0	1.5
100%	(1.2,2.5)	(1.01,1.2)	(0.7,2.6)	(0.9,1.9)	0.7,1.3)	(0.7,1.4)	(1.1,2.2)
101%-	1.9	1.0	1.0	1.2	1.0	1.1	1.2
200%	(1.4,2.6)	(0.9,1.1)	(0.6,1.7	(0.8,1.7)	(0.7,1.4)	(0.8,1.5)	(0.9,1.6)
201%-	1.3	1.0	0.8	0.9	1.2	1.3	1.0
300%	(0.9,1.9)	(0.9,1.1)	(0.5,1.4)	(0.6,1.3)	(0.8,1.83)	(0.9,1.8)	(0.7,1.4)
301+%	<mark>2.9</mark>	1.0	1.0	0.8	0.8	0.7	0.9
	(2.04.1)	(0.9,1.11)	(0.7,1.5)	(0.6,1.3)	(0.5,1.3)	(0.5,1.0)	(0.7,1.2)

Results

- White, African-American, and Hispanic youth were all significantly less likely (about 50% less likely) to binge drink in the future if they had 12 or more assets
- Neighborhood conditions were not related to binge drinking when analyzed by youth race/ethnicity or for all youth

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Results (continued)

- Youth in most of the income groups with 12 or more assets were significantly less likely (34% to 56% less likely) to binge drink
 - Exception was youth in the 201% to 300% FPL group

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Results (continued)

• Youth in the highest-income group and whose parents had less concerns regarding neighborhood services were about 1.4 times more likely to binge drink.



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Results (continued)

• Youth in the lowest-income group, and who lived in neighborhoods in good physical condition or whose parents had few parental concerns regarding neighborhood crime/safety were 9% and 35% less likely to binge drink respectively.

Results (continued)

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 Associations between assets and binge drinking changed little when accounting for the effect of the neighborhood factors

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Public Health Implications

• Policy

 Focus programmatic efforts (funding streams, education and training resources, etc.) on developing and promoting specific protective factors internal and external to youth, such as assets, instead of maintaining the current deficitbased approach.

