

Presenter Disclosures
Won Kim Cook and Thomas K. Greenfield
No relationships to disclose

ALCOHO RESEARCH G R O U I

Background

- Harmful patterns of alcohol consumption in developing countries (Rehm et al., 2004, 2009); alcohol use the single largest behavioral risk factor for disease and disability in middle-income countries (WHO, 2011)
- Increasing alcohol consumption in low- and middle-income countries (LAMICs) with rising incomes and expansion of industrial production and marketing of alcohol (Anderson et al., 2009).
- Evidence of the effectiveness of alcohol policies from high-income countries (Babor et al., 2010)
- Paucity of policy-relevant cross-national studies on LAMICs



<text><text><text><image>













5

Country Income Survey Designation ^a Survey Year Age Range Sample Sampling GDP-I	PPP DDP
	30010
Argentinaupper-middle200318-651000regional114	56 2
Belize upper-middle 2005 18+ 3973 national 639	4
Brazil lower-middle 2002 17+ 712 regional 825	8 3
Costa Rica upper-middle 2003 18+ 2526 regional 920)6 3
Czech Republic upper-middle 2002 18-64 1273 national 162	65 2
Hungary upper-middle 2001 19-65 2243 national 153	42 3
India low 2003 16+ 2597 regional 284	9 3
Kazakhstan lower-middle 2002 18+ 1170 regional 719	96 4
Mexico upper-middle 1998 18-65 5711 national 935	57 4
Nicaragua low 2005 18+ 2030 regional 248	32 4
Nigeria Iow 2003 18+ 2064 regional 920	0 2
Peru lower-middle 2005 18-65 1531 regional 517	'0 3
Sri Lanka lower-middle 2002 18+ 1193 regional 382	.7 3
Uganda low 2003 18+ 1478 regional 144	2 3
Uruguay upper-middle 2004 18-65 1000 national 1210	08 3

Coefficient Estimates of the Associations between Country-Level Alcohol Availability Policies and Country-Level Average Adjusted Drinking Outcomes							
Physical Availability Alcohol Policies	Alcohol Consumption Variable						
	Current Drinking	Usual Quantity	Usual Frequency	Binge Drinking Frequency	Total Drinking Volume		
	Exp(θ) (95% Cl)	Θ (SE)	Θ (SE)	θ (SE)	θ (SE)		
Physical availability index ^a	0.73** (0.60, 0.90)	-0.23** (-0.40, -0.06)	-0.30*** (-0.41, -0.20)	-0.14** (-0.220.06)	-0.52*** (-0.75, -0.28		
Government monopoly or licensing system ^b	0.58* (0.34, 0.97)	-0.50* (-0.91, -0.09)	-0.65*** (-0.93, -0.38)	-0.23* (-0.45, -0.01)	-1.02** (-1.65, -0.39		
Density of outlets ^b	0.83 (0.65, 1.05)	-0.13 (-0.33, 0.07)	-0.19* (-0.35, -0.03)	-0.11* (-0.20, -0.02)	-0.34* (65, -0.02)		
Restrictions on business hours ^b	0.54** (0.36, 0.81)	-0.40* (-0.77, -0.03)	-0.63*** (-0.83, -0.44)	-0.30*** (-0.46, -0.15)	-0.88** (-1.44, -0.32		







- NIAAA Grants R21 AA012941, R01 AA015775
- German Federal Ministry of Health
- The Pan American Health Organization
- Swiss national funds
 - Additional funding for preparation for this manuscript was, in part, supported by NIAAA Center Grant (P50 AA005595) and Training Grant (T32 AA07240). Support for individual country surveys was provided by government agencies and other national sources.
 - We thank the numerous study directors in the individual countries

ALCOHO RESEARCH G R O U I

PUBLIC HEALTH INSTITUTE



ALCOHOL RESEARCH GROUP

References Cited

BABOR, T., CAETANO, R., CASSWELL, S. et al. (2010) *Alcohol: No Ordinary Commodity Research and Public Policy* (New York, NY, Oxford University Press).

GURURAJ, G., MURTHY, M., RAO, G. N. & BENEGAL, V. (2011) Alcohol Related Harm: Implications for public health and policy in India (Bangalore, India, National Institute of Mental Health & Neuro Sciences).

REHM, J., REHN, N., ROOM, R. et al. (2003) The global distribution of average volume of alcohol consumption and patterns of drinking, *European Addiction Research*, 9, 147-156.

REHM, J., ROOM, R., MONTEIRO, M. et al. (2004) Alcohol Use, in: J, R. (Ed.) Comparative Quantification of Health Risks: Global and Regional Burden of Disease due to Selective Major Risk Factors, pp. 959-1091 (Geneva, Switzerland, World Health Organization.) REHM, J., MATHERS, C., POPOVA, S. et al. (2009) Global burden of disease and injury and economic cost attributable to alcohol use and alcohol-use disorders, *Lancet*, 373, 2223-33. WORLD BANK (2012) GDP per capita, PPP (current international \$). Available at: http://data.worldbank.org/ (accessed October 10, 2012).

Switzerland, World Health Organization). Available at: http://www.who.int/substance_abuse/publications/global_alcohol_report/en/ (accessed January 5, 2013). WORLD HEALTH ORGANIZATION (2011) Global Status Report on Alcohol and Health (Geneva,



