



Influence of gender role attitudes on smoking and drinking among girls from Jujuy, Argentina



Raul Mejia^{a,b}, Celia P. Kaplan^{c,e}, Ethel Alderete^d, Steven E. Gregorich^c, Eliseo J. Pérez-Stable^{b,c,e,*}

^a Universidad de Buenos Aires, Buenos Aires, Argentina

^b Centro de Estudios de Estado y Sociedad (CEDES), Argentina

^c Division of General Internal Medicine, Medical Effectiveness Research Center for Diverse Populations, Department of Medicine, University of California San Francisco, San Francisco, CA, USA

^d Consejo Nacional de Investigaciones Científicas y Técnicas, Universidad Nacional de Jujuy, Instituto de Ciencia y Tecnología Regional, Jujuy, Argentina

^e Helen Diller Family Comprehensive Cancer Center, University of California, San Francisco, San Francisco, CA, USA

ARTICLE INFO

Available online 31 May 2013

Keywords:

Gender role
Tobacco use
Alcohol use
Adolescents
Latin America
Indigenous

ABSTRACT

Objective. Evaluate effect of gender role attitudes on tobacco and alcohol use among Argentinean girls.

Method. Cross-sectional survey of 10th grade students attending 27 randomly selected schools in Jujuy, Argentina. Questions about tobacco and alcohol use were adapted from global youth surveys. Five items with 5-point response options of agreement–disagreement assessed attitude towards egalitarian (higher score) gender roles.

Results. 2133 girls, aged 13–18 years, 71% Indigenous, 22% mixed Indigenous/European, and 7% European responded. Of these, 60% had ever smoked, 32% were current smokers, 58% ever drinkers, 27% drank in previous month, and 13% had ≥ 5 drinks on one occasion. Mean response to the gender role scale was 3.49 (95% Confidence Intervals = 3.41–3.57) out of 5 tending toward egalitarian attitudes. Logistic regression models using the gender role scale score as the main predictor and adjusting for demographic and social confounders showed that egalitarian gender role was associated with ever smoking (Odds Ratio = 1.25; 95% Confidence Intervals 1.09–1.44), ever drinking (Odds Ratio = 1.24; 95% Confidence Intervals 1.10–1.40), drinking in prior month (Odds Ratio = 1.21; 95% Confidence Intervals 1.07–1.37) and ≥ 5 drinks on one occasion (Odds Ratio = 1.15; 95% Confidence Intervals 1.00–1.33), but was not significant for current smoking.

Conclusion. Girls in Jujuy who reported more egalitarian gender role attitudes had higher odds of smoking or drinking.

© 2013 Elsevier Inc. All rights reserved.

Introduction

In Argentina smoking and moderate alcohol consumption among adults are common (Ministerio de Salud y Ambiente de la Nación, 2011). By age 15, 21.1% of boys and 27.3% of girls reported smoking (Ministerio de Salud y Ambiente de la Nación, 2009) and consumption of one drink of alcohol per day, was twice as prevalent as current smoking (Linetzky et al., 2011). Gender role attitudes and gender identity were reported to have a role in explaining gender differences in tobacco and alcohol consumption in high-income countries (Epstein et al., 1998; Huselid and Cooper, 1992) and in Mexico (Lara-Cantu et al., 1990). Studies about the association between egalitarian gender role attitudes and consumption of tobacco and alcohol showed complex relationships in Northern societies (Emslie et al., 2002; Hunt et al., 2004) but there are no studies from South America. We hypothesized that Argentinean adolescent girls, particularly those who hold more

egalitarian attitudes, may be at higher risk of tobacco and alcohol use. In this study we explored the relationship of gender role attitudes with tobacco smoking and alcohol consumption behavior among girls from Argentina.

Methods

In 2006 a self-administered survey was given to 10th graders residing in the northwestern province of Jujuy (Alderete et al., 2009). Items were derived from U.S. adolescent surveys and developed by the researchers. Respondents reported their sex, age, race/ethnicity, job status, work in tobacco growing and/or selling, whether they had repeated a grade in school and family characteristics.

We constructed a preliminary scale to assess adolescents' perception of egalitarian versus non-egalitarian gender roles after reviewing available literature (Gibbons et al., 1991; Lara-Cantu, 1989; Schmitz and Diefenthaler, 1998). The questionnaire was reviewed by experts and pretested using in-depth interviews to evaluate comprehension and face validity.

The scale consisted of 10 items with ordered response options from 1 (strongly agree) to 5 (strongly disagree). A 2-factor model was created and a 5-item factor with a Cronbach alpha of 0.72 was identified. The final five items asked about women staying at home to care for children, men working

* Corresponding author at: 3333 California Street, University of California, San Francisco, San Francisco, CA 94143-0856, USA. Fax: +1 415 502 8291.

E-mail address: eliseops@medicine.ucsf.edu (E.J. Pérez-Stable).

to earn a living for the family, women accepting men's decision if they disagree, women working outside the home leading to more crime by youth, women belonging in the home and not in work outside the home. The scale was scored as the average item response so, higher numbers reflected more egalitarian attitudes.

Smoking behavior questions were adapted from adolescent surveys used in the U.S. (Centers for Disease Control and Prevention, 2000; Gilpin et al., Tobacco Control Success in California: A Focus on Young People, Results from the Tobacco California Surveys, 1990–2002, 2003) Respondents were classified as “ever smokers” if they ever tried even a puff and as “current smokers” if they had smoked in the past 30 days (Warren et al., 2000). Students were asked about parental smoking, the number of their friends who smoke, and a measure of smoking media literacy, defined as the ability to analyze and evaluate media messages related to tobacco (Salgado et al., 2012). Alcohol use items were adapted from adolescent surveys in the US (Centers for Disease Control and Prevention, 2000) and were classified as “ever drank” if they ever tried alcohol, “current drinker” if they drank at least one alcoholic beverage in the previous month, and among current drinkers, a third category if they had ≥5 drinks on one occasion in the previous month.

Descriptive analyses compared the sample by smoking and drinking status and bivariate comparisons tested for significance using a chi-square statistic. A logistic regression model was estimated for the outcomes of “ever smoking”, “current smoking”, “ever drank”, “current drinking”, and “consumed 5 or more drinks at one time” using the gender role attitudes scale as the main predictor. We adjusted for age (integer categories with oldest as referent), race/ethnicity (European as referent), and other variables that we previously found to be associated with smoking behavior including having a job (no job as referent),

religion (Catholic as referent), repeating a grade in school (no as referent), parental education (Graduated from college as referent), living with both parents (no as referent), living with someone who smokes at home (no as referent), having 5 or more friends who smoke (five or more as referent), depressive symptoms in previous year (No as referent), worked in tobacco growing and/or selling (no as referent), and smoking media literacy (low score as referent) (Alderete et al., 2009; Salgado et al., 2012). All analyses adjusted for clustering of students within schools via generalized estimating equations.

Results

Respondents were 2133 girls, aged 13–18 years. The majority of respondents were of Indigenous background (71%), 35% had a job, 40% had repeated a grade, 51% reported that their parents had less than seven years of formal education, 59% were exposed to second-hand smoke at home, 56% had five or more friends who smoke, 47% reported depressive symptoms and 63% had low smoking media literacy score. All these variables were significantly associated with the smoking and drinking outcomes in bivariate analyses (see Table 1).

Ever smoking was reported by 60% and 32% had smoked cigarettes in the previous 30 days. Ever use of alcohol was reported by 58%, 27% reported drinking in the previous month, and 13% had ≥5 drinks in the past month. Table 1 summarizes the individual and family characteristics of the sample by smoking and drinking

Table 1
Individual, family characteristics, and risk factors by tobacco use, and alcohol consumption in 2133 girls, age 13 to 18 years, Jujuy, Argentina, 2006.

Variables	Total sample N = 2133 N	Ever smokers ¹ N = 1277 (60%) N (%) ⁴	Current smokers ² N = 694 (33%) N (%) ⁴	Ever drinkers ¹ N = 1228 (58%) N (%) ⁴	Current drinkers N = 573 (27%) N (%) ⁴	Consume ≥ 5 drinks at one time ³ N = 274 (13%) N (%) ⁴
Age						
13–14	96	51 (53.1)	25 (26.3)*	45 (46.8)	27 (28.1)*	9 (9.3)*
15	1144	658 (57.5)*	333 (29.2)*	647 (56.7)	305 (26.7)*	129 (11.3)*
16	491	310 (63.1)*	168 (34.4)*	284 (57.8)	124 (25.4)*	68 (13.9)*
17	274	179 (65.3)*	122 (44.6)	173 (63.1)*	83 (30.4)*	46 (16.7)*
18	128	79 (61.7)	46 (35.9)	79 (61.7)	34 (26.5)*	22 (17.1)*
Race/Ethnicity						
Indigenous	1471	868 (59.0)*	466 (31.8)*	807 (54.9)	374 (25.4)*	172 (11.7)*
European	136	78 (57.3)	48 (35.2)	91 (67.4)	45 (33.3)*	22 (16.1)*
Mixed Indigenous	454	284 (62.5)*	152 (33.6)*	279 (61.4)	135 (29.9)*	69 (15.3)*
Have a job -yes	740	509 (68.0)*	290 (39.2)*	470 (63.5)*	215 (29.2)*	118 (16.0)*
Religion						
Catholic	1806	1108 (61.3)*	607 (33.7)*	1060 (58.8)*	499 (27.7)*	231 (12.8)*
Christian Evangelical	228	117 (51.3)	58 (25.5)*	105 (46.0)	41 (17.9)*	20 (8.8)*
Other	92	48 (52.1)	27 (29.3)*	59 (64.1)	29 (31.5)	22 (23.9)*
Repeated grade-yes	848	557 (65.6)*	351 (41.4)*	507 (59.7)*	243 (28.7)*	131 (15.5)*
Parental Education						
No formal	148	90 (60.8)	51 (34.4)	75 (51.0)	37 (25.1)*	19 (12.8)*
Elementary (≤7 years)	957	570 (59.5)*	313 (32.8)*	525 (54.9)	232 (24.3)*	118 (12.4)*
High school	640	378 (59.0)*	217 (34.0)*	375 (58.5)	170 (26.6)*	82 (12.8)*
Technical or Service training	277	171 (61.7)	78 (28.2)*	171 (61.7)	93 (33.5)	36 (13.0)*
University	96	55 (57.2)	26 (27.0)*	68 (71.1)	37 (38.5)	16 (16.6)*
Living with both parents	1367	776 (56.7)*	423 (31.0)*	761 (55.7)	366 (26.8)*	172 (12.6)*
Someone smokes at home	1242	836 (67.3)*	485 (39.2)*	791 (63.8)*	388 (31.3)*	190 (15.3)*
Number of friends who smoke						
None	282	94 (33.3)*	23 (8.2)*	81 (28.3)*	20 (7.1)*	5 (1.7)*
1 - 4	560	321 (57.3)*	150 (26.9)*	307 (55.1)	124 (22.1)*	52 (9.3)*
5 +	1097	760 (69.2)*	464 (42.4)*	738 (67.2)*	380 (34.8)*	190 (17.3)*
Depressive symptoms	980	633 (64.5)*	365 (37.5)*	612 (62.5)*	311 (31.8)*	151 (15.4)*
Worked in tobacco agriculture	214	158 (73.8)*	91 (42.5)	141 (65.8)	67 (31.6)*	40 (18.9)*
Ever sell cigarettes	54	35 (64.8)	22 (40.7)	41 (75.9)	24 (44.4)	10 (18.5)*
Smoking Media Literacy						
High	748	425 (56.8)*	212 (28.4)*	424 (56.8)	203 (27.2)*	96 (12.8)*
Low	1291	790 (61.1)*	448 (34.8)*	757 (58.6)*	347 (27.0)*	168 (13.0)*

* p < 0.0001.

¹ Ever smoking or ever drinking refers to lifetime.

² Current smoking defined by smoking at least one cigarette in the previous month.

³ Drinking ≥ 5 drinks in the previous month (see text for more details).

⁴ Number and percent of respondents reporting smoking or drinking behavior.

Download English Version:

<https://daneshyari.com/en/article/6047621>

Download Persian Version:

<https://daneshyari.com/article/6047621>

[Daneshyari.com](https://daneshyari.com)