

Coping with Work and Family Stress on Risky Behaviors and Perceived Stress

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Introduction

- HIV/AIDS is a global epidemic that claims 18,000 lives annually in the United States.
- Hispanics account for 12% of new HIV cases.
- This a cause for alarm as this minority group encounter increasing health disparities when compared to other ethnic groups.
- HIV diagnosis and treatment are delayed due to lack of understanding about the U.S. health care system, eligibility requirements to receive care, high mortality rate from the HIV/AIDS; fear about revealing ones immigration status, and stigmatization attached to HIV/AIDS.

Literature Review

- A link exists between bicultural stress and risky behaviors among recent Hispanic immigrants.
- Perceptions of discrimination and identity confusion were found associated with risky behaviors and cultural stress.
- Bicultural stress are linked to greater risk for depression and cigarette use.
- Mexican-Americans residing in US-Mexico border towns are at high risk for binge drinking.
- Increased binge drinking among *colonia* residents, border areas where local government regulation is minimal.
- Increased bar establishments in US-Mexico border towns.
- Given the challenges and vulnerabilities immigrants face, evidenced-based interventions to reduce risks are much needed.

Purpose of the Study

- To examine the effect of the an evidence-based programming on the risky behaviors and perceived stress among young Hispanic residents in a U.S. southern border city.

Methods

- Hispanic college students ages 18-24 were recruited from a Hispanic serving institution.
- Institutional Review Board (IRB) approval was sought and granted.
- Epidemiological study using permuted block design with equal sizes in the treatment and control group was used.
- Data collection points: (i) baseline, (ii) exit, (iii) 3-month follow-up.
- Intervention $n = 318$; control $n = 228$
- Main independent variable is *Coping with Work and Family Stress*.
- Dependent variables are: (i) perceive stress, (ii) substance use risk, (iii) sexual control.

Analytical Techniques

- Analysis of variance, and normal error regression using IBM SPSS.
- All p -values below the 5% type-1 error rate were considered statistically significant.

Table 1: Descriptive Statistics

Descriptive Statistics					
	M	Median	SD	Min	Max
Baseline					
Age	20.9	21	1.87	18	27
Gender (1 = male; 0 = female)	0.26	0	0.44	0	1
Employment (1 = yes; 0 = no)	0.35	0	0.48	0	1
Perceived stress	1.26	1.30	0.31	0.10	2
Substance use risk	0.81	0.10	1.72	0	9.60
Sexual control	3.31	3.50	0.70	0.83	4
Exit					
Perceived stress	1.15	1.10	0.31	0	1.90
Substance use risk	0.74	0	1.67	0	11.60
Sexual control	3.42	3.67	0.63	0.83	4
3-month follow up					
Perceived stress	1.12	1.10	0.29	0.20	1.90
Substance use risk	0.72	0	1.69	0	9
Sexual control	3.47	3.83	0.60	1.17	4

Table 2: Perceived Stress

	Variables	B	Std. Error	Beta	p
Baseline	(Constant)	1.782	0.262		0
	Age	-0.025	0.013	-0.150	0.054
	Gender (1 = male; 0 = female)	-0.070	0.051	-0.101	0.171
	Employment (1 = yes; 0 = no)	0.108	0.049	0.169	0.030 *
	Group (1 = intervention; 0 = control)	-0.048	0.046	-0.077	0.294
Exit	(Constant)	1.467	0.261		0
	Age	-0.011	0.013	-0.068	0.363
	Gender (1 = male; 0 = female)	-0.030	0.052	-0.042	0.567
	Employment (1 = yes; 0 = no)	0.030	0.048	0.047	0.535
	Group (1 = intervention; 0 = control)	-0.141	0.046	-0.223	0.003 **
3-month F/U	(Constant)	1.216	0.264		0
	Age	-0.001	0.013	-0.007	0.922
	Gender (1 = male; 0 = female)	-0.042	0.048	-0.064	0.382
	Employment (1 = yes; 0 = no)	0.031	0.046	0.052	0.494
	Group (1 = intervention; 0 = control)	-0.122	0.044	-0.208	0.006 **

Table 3: Risk of Substance Use

	Variables	B	Beta	p
Baseline	(Constant)	-2.062		0.154
	AGE	0.115	0.125	0.098
	Gender (1 = male; 0 = female)	0.511	0.131	0.068
	Employment (1 = yes; 0 = no)	0.771	0.215	0.005 **
	Group (1 = intervention; 0 = control)	0.097	0.028	0.698
Exit	(Constant)	-2.463		0.080
	Age	0.147	0.165	0.030 *
	Gender (1 = male; 0 = female)	0.408	0.108	0.143
	Employment (1 = yes; 0 = no)	0.316	0.093	0.222
	Group (1 = intervention; 0 = control)	-0.174	-0.051	0.487
3-month F/U	(Constant)	-2.974		0.048
	AGE	0.155	0.160	0.030 *
	Gender (1 = male; 0 = female)	0.551	0.144	0.045 *
	Employment (1 = yes; 0 = no)	0.768	0.221	0.003 **
	Group (1 = intervention; 0 = control)	-0.078	-0.023	0.753

Table 4: Sexual Control

	Variables	B	Beta	p
Baseline	(Constant)	5.041		0
	Age	-0.084	-0.224	0.004 **
	Gender (1 = male; 0 = female)	-0.189	-0.119	0.105
	Employment (1 = yes; 0 = no)	0.026	0.018	0.816
	Group (1 = intervention; 0 = control)	0.117	0.082	0.260
Exit	(Constant)	5.785		0
	Age	-0.112	-0.336	0 ***
	Gender (1 = male; 0 = female)	-0.271	-0.191	0.007 **
	Employment (1 = yes; 0 = no)	0.065	0.051	0.477
	Group (1 = intervention; 0 = control)	0.054	0.043	0.543
3-month F/U	(Constant)	5.545		0
	Age	-0.095	-0.274	0 ***
	Gender (1 = male; 0 = female)	-0.226	-0.165	0.022 *
	Employment (1 = yes; 0 = no)	-0.021	-0.017	0.822
	Group (1 = intervention; 0 = control)	0.017	0.014	0.847

Findings

- Intervention group had lower mean in perceived stress compared to the control group at (i) exit and, (ii) at 3-month follow-up.
- No significant impact of intervention on participants' substance use risk across time.
- No significant impact of intervention on participants' sexual control skills across time.

Conclusion

- Our results suggest that our intervention strategy had efficacy on reducing stress upon exit and three months after exit; but the same claim cannot be said about substance use risk, and sexual control.
- Interestingly, age is linked with level of sexual control; older respondents manifested low levels of control compared to younger ones.

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