Effects of the Universal Prevention Curriculum for Schools on Substance Use Among Peruvian Adolescents: A Randomized Trial

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This presentation is based on the experiences and lessons learned in the Project: "A Demonstration Project to Apply the Principles and Practices of the Universal Prevention Curriculum (UPC) to Schools in Peru" made possible by the Federal Assistance Award of the United States Department of State and the Drug Advisory Program of the Colombo Plan, which is supported by the Bureau of International Narcotics and Law Enforcement Affairs (INL).





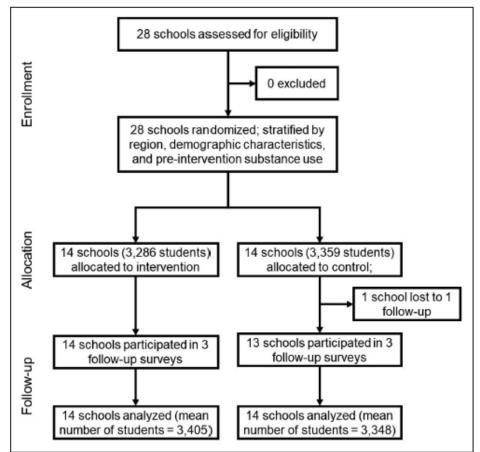




- The purpose: to assess the effects of a universal prevention training curriculum for school administrators and teachers that focused on effective strategies to prevent adolescent substance use and related problems.
- The context: school administrators and teachers at intervention schools participated in a universal prevention training curriculum focusing on the development of a positive school climate as well as effective policies related to school substance use. All intervention and control schools were offered Unplugged, a classroom-based substance use prevention curriculum.



- The study design: Grouprandomized trial
- The study population: Twentyeight schools in three regions of Peru were randomly assigned to either an intervention or control condition (14 schools per condition).
- The measurements: Repeated cross-sectional samples of 11 to 19-year-old students participated in four surveys from May 2018 to November 2019 (N = 24,529).





School climate

 Outcome measures: lifetime drug use; past-year and past-month tobacco, alcohol, marijuana, and other drug use; awareness of school tobacco and alcohol use policies; perceived enforcement of school policies; school bonding; perceived friends' use of tobacco, alcohol, marijuana, and other drugs; and personal problems in general and problems related to substance use.

School Policies

Normative beliefs

Substance use

Consequences



 The results: Multi-level analyses indicated significant reductions in past-year and past-month smoking, friends' substance use, and problems related to substance use and in general at intervention relative to control schools. Significant increases were found in intervention vs. control schools related to students' awareness of school substance use policies, perceived likelihood of getting caught for smoking, and school bonding.

Table 3. Summary of Results from Multi-Level Logistic Regression Analyses to Assess UP	C
Training and Intervention Effects on Substance Use Behaviors and School Policy Awareness	s.

Outcome	Odds Ratio (95% confidence interval) ^a		
Substance use behaviors			
Past-year smoking	0.80 (0.65, 0.99)*		
Past-month smoking	0.67 (0.51, 0.92)*		
Past-year alcohol use	0.88 (0.74, 1.06)		
Past-month alcohol use	0.84 (0.65, 1.09)		
Binge drinking, past 2 weeks	0.78 (0.53, 1.15)		
Lifetime drug use ^b	0.92 (0.67, 1.27)		
Past-year substance use ^c	0.88 (0.74, 1.03)		
Past-month substance use ^c	0.83 (0.66, 1.04)		
School policies			
Smoking is prohibited	1.23 (1.02, 1.48)*		
Alcohol use is prohibited	1.29 (1.08, 1.53)**		

*p < .05, **p < .01.

Odds ratio for pre/post intervention year× intervention condition, adjusted for student age and gend Marijuana, inhalants, or other drugs (e.g., cocaine, hallucinogens).

Table 4. Summary of Results from Multi-Level Linear Regression Analyses to Assess UPC
Training and Intervention Effects on Psychosocial Quicomes and Problems

Outcome	Beta (standard error)
Perceived school policy enforcement	
Likelihood of getting into trouble for smoking at school	0.06 (.03)
Likelihood of getting into trouble for alcohol use at school	0.03 (.04)
School bonding	0.05 (.03)†
Friends' substance use	
Smoking	-0.04 (.03)
Getting drunk	-0.05 (.03)
Marijuana or other drugs	-0.03 (.02)
Total friends' substance use	-0.13 (.07) [†]
Problems in the past year	
Problems related to substance use	-0.19 (.07)*
Problems for any reason	-0.25 (.12)*

*p<.05, [†]p<.1

^aBeta coefficient for pre/post intervention year × intervention condition, adjusted for student age and gender.



 Conclusion: These findings suggest that the universal prevention training curriculum (UPC) and the school policy and climate changes it promoted reduced substance use and related problems in the study population of Peruvian adolescents. UPC training effective means of disseminating prevention science to support the implementation of EBI

...modules be taught
FOR COORDINATORS as
originally designed
preceding those for
IMPLEMENTERS
providing direct services

....major commitment of time and resources on the part of interested that include substance use prevention in their mission....

...the modules depend on highly interactive teaching strategies... move to OTHER MODALITIES may attenuate the effects noted here.



Translating the learning from this study to action

 The school prevention must have trained schoolteachersimplementers in the UPC.





Translating the learning from this study to action

 The school interventions to be effective should include:









Building
Prevention
and
leadership
action
teams

Substance use prevention policies

Positive School Climate School Prevention Curricula

Translating the learning from this study to action

 The school prevention intervention must have a trained strong monitoring system for continuous formative evaluation and maintain fidelity to the design and adapt to local conditions.









Programa de Prevención Escolar del Uso de Sustancias Psicoactivas

