Behavioral Monitoring and Reinforcement Program

Program description:

This is a school-based intervention that aims to prevent juvenile delinquency, substance use, and school failure for high-risk adolescents. For two years, beginning in seventh grade, participants' school records are monitored for attendance, tardiness, and disciplinary action. Program staff contact parents by letter, phone, and occasional home visits to inform them of their children's progress. Teachers submit weekly reports assessing students' punctuality, preparedness, and behavior in the classroom, and students are rewarded for good evaluations. Each week, 3-5 students meet with a staff member to discuss their recent behaviors and their consequences, and role-play prosocial alternatives to problem behaviors.

Typical age of primary program participant: 12

Typical age of secondary program participant: N/A

Outcomes Measured	Primary or	No. of Effect Sizes		sted Effec m Effects		Effects Adjusted Effect Sizes and Standard Errors Used in the Benefit-Cost Analysis						
	Second- ary Partici- pant				p-	First time ES is estimated			Second time ES is estimated			
			ES	SE	value	ES	SE	Age	ES	SE	Age	
Crime	Р	1	-0.56	0.32	0.10	-0.11	0.32	16	-0.11	0.32	26	
Employment	P	1	0.71	0.35	0.13	0.27	0.35	16	0.27	0.35	26	
Truancy	P	4	0.70	0.70	0.18	-0.34	0.70	16	-0.34	0.70	17	
Grade point average	Р	3	0.79	0.25	0.00	0.42	0.25	16	0.42	0.25	17	

Benefit-Cost Summary

The estimates shown are present	Program Benefits				Costs	Summary Statistics				
value, life cycle benefits and costs.										Probability of a
All dollars are expressed in the base year chosen for this analysis (2011).								Return		positive
The economic discount rates and	Partici-	Tax		Other	Total		Benefit	on	Benefits	net
other relevant parameters are	pants	Tax- payers	Other	Indirect	Total Benefits		to Cost Ratio	Invest- ment	Minus Costs	present value
described in Technical Appendix 2.	\$341	\$531	\$866	\$256	\$1,995	-\$1,276	\$1.56	9%	\$719	58%

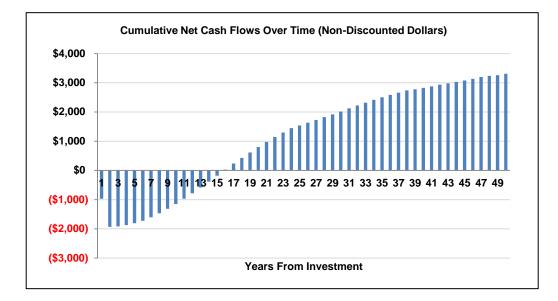
Detailed Monetary Benefit Estimates

	Benefits to:						
Source of Benefits	Partici- pants	Tax- payers	Other	Other In- direct	Total Benefits		
Crime	\$0	\$357	\$902	\$173	\$1,431		
Earnings via high school graduation	\$347	\$128	\$0	\$58	\$533		
Health care costs via education	-\$6	\$47	-\$35	\$24	\$30		

Detailed Cost Estimates

The figures shown are estimates of the costs	Program Costs			Comparison Costs			Summary Statistics		
to implement programs in Washington. The comparison group costs reflect either no							Present Value of Net Program		
treatment or treatment as usual, depending on how effect sizes were calculated in the	Annual Cost	Program Duration	Year Dollars	Annual Cost	Program Duration	Year Dollars	Costs (in 2011 dollars)	Uncertainty (+ or – %)	
meta-analysis. The uncertainty range is used in Monte Carlo risk analysis, described in Technical Appendix 2.	\$500	2	1999	\$0	2	1999	\$1,275	10%	

Source: Miller, T.R., and Hendrie, D. (2005). "How should governments spend the drug prevention dollar: A buyer's guide." In: Stockwell, T., Gruenewald, P., Toumbourou, J., and Loxley, W., eds. Preventing harmful substance use: The evidence base for policy and practice. Chichester, England: John Wiley & Sons. pp. 415-431.



Multiplicative Adjustments Applied to the Meta-Analysis

Type of Adjustment	Multiplier
1- Less well-implemented comparison group or observational study, with some covariates.	0.5
2- Well-implemented comparison group design, often with many statistical controls.	0.5
3- Well-done observational study with many statistical controls (e.g., instrumental variables).	0.75
4- Random assignment, with some implementation issues.	0.75
5- Well-done random assignment study.	1.00
Program developer = researcher	0.5
Unusual (not "real-world") setting	0.5
Weak measurement used	0.5

Studies Used in the Meta-Analysis

- Bry, B. H. (1982). Reducing the incidence of adolescent problems through preventive intervention: One- and five-year follow-up. American Journal of Community Psychology, 10(3), 265-276.
- Bry, B. H. (2001). Achievement mentoring makes a difference: 1999-2001 program evaluation results for Bry's Behavioral Monitoring and Reinforcement Achievement Mentoring Program. Rochester, NY: Rochester City School District.
- Bry, B. H., & George, F. E. (1979). Evaluating and improving prevention programs: A strategy from drug abuse. Evaluation and Program Planning, 2(2), 127-136.
- Bry, B. H., & George, F. E. (1980). The preventive effects of early intervention on the attendance and grades of urban adolescents. *Professional Psychology*, 11(2), 252-260.