Substance Use: Family-based Interventions to Prevent Substance Use Among Youth

Summary Evidence Tables - Systematic Economic Review

This table outlines information from the studies included in the Community Guide economic review of family-based interventions to prevent substance use among youth. The table details study design and economic analysis, population and intervention characteristics, and economic outcomes considered in this review. Complete references for each study can be found in the Included Studies section of the Substance Use Among Youth (thecommunityguide.org). [https://www.thecommunityguide.org/findings/substance-use-family-based-interventions-to-prevent-substance-use-among-youth.html]

This review included studies from the peer-reviewed literature and two government reports from Washington State Institute for Public Policy (WSIPP) and the Substance Abuse and Mental Health Services Administration (SAMHSA 2008). The peer-reviewed studies are listed first, followed by a description of the methods used by WSIPP and SAMHSA 2008 along with results from the specific programs they evaluated.

Abbreviations Used in This Document:

- Economic outcomes:
 - QALY: quality-adjusted life year

- Other terms:
 - o a.k.a, also known as
 - o FPL, federal poverty line
 - o GED, general education development
 - o NGO, non-government organization
 - o NR: not reported
 - o PSA, probabilistic sensitivity analysis
 - $\circ\quad$ SAMHSA, Substance Abuse and Mental Health Services Administration
 - o WSIPP, Washington State Institute for Public Policy

Notes:

Quality of economic estimates – Studies are assessed to be of good, fair, or limited quality. This valuation is based on two domains: Quality of Capture, and Quality of Measurement. Read more Methods Manual - Part 2: Economic Review Process | The Community Guide [https://www.thecommunityguide.org/pages/economic-review-methods.html]

Race/ethnicity of the study population: The Community Guide only summarizes race/ethnicity for studies conducted in the United States.

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
Author (Year):	Location: Georgia,	Protecting Strong African			NR	NR
Barton et al.	USA	American Families (ProSAAF)		\$1,927 per family		
(2018)		L		(Min \$725, Max		
	Setting: Home	Intervention: African	and confidence at	\$3,248)		
Design : RCT			9 months.			
	Population: Low-	skills training, behavior		Components of		
Economic	income African	rehearsal and feedback, and	Odds of reporting	intervention cost:		
Outcome:	American families	reinforcement. Primary focus	substance use	Facilitator wages,		
Intervention	(couples) with	on couple and outcomes of	were 89% lower	travel, training;		
cost	children 9-14.	couple relation functioning,	for youth in the	supplies, equipment,		
		, , , ,	ProSAAF	and overheads;		
Substances	phone or	process. Secondary outcomes		financial incentives for		
Focus:	advertisements in	were related to youth	count of conduct	participation.		
Alcohol,	,	including substance use.	problems was			
tobacco,	school lists.	Facilitator-led 6 2-hour	44% lower for	Source: Study		
cannabis			ProSAAF youth	records, facilitator		
	Sample Size	homes. End of each session,	(Beach 2016).	logs, expenditure		
Funding	(families):	facilitator met with youth		receipts.		
Source:	Intervention 172	, ,	Data Source:			
National	Usual care 174	peer pressure or	Effectiveness in	Quality: Good		
Institute on		understanding parents,	couple rations			
Drug Abuse	Characteristics:	followed by another 15-min of				
	Mean parent age:	joint activity with parent-child	validated			
Monetary	Male 39.9 y and	in discussion or a game.	instruments.			
Values: Assum			Substance use			
	Mean child age:	Comparison: Informational	based on self-			
2014 U.S.	10.9 y	materials on marriage	report.			
dollars.	Race: African					
	American 100%					
	Median parent					
	education					

Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
	attainment: High					
	School or GED					
	Urbanicity: 100%					
	rural					
	Income: 51% below					
	100% of FPL					
ı	Time Horizon:					
	intervention length					
	was 6 consecutive					
	sessions over 6					
	weeks plus 2					
	boosters.					
• •	•	Family Matters			NR	NR
	USA		significantly fewer	per family: \$140		
(2001)		Intervention: Booklet	smoking initiators			
	Setting: Home			Components of		
Design: RCT		and tobacco use prevention	1 !	intervention cost:		
		followed by telephone	Non-whites had	NR		
		discussion led by health	no effect due to			
		educators. Booklet 1 taught		Source: NR		
	recruited from	negative consequences of	Alcohol initiation			
		youth substance use and		Quality: Fair		
		what families can do to	up was 11.1%			
	numbers.	prevent use. Booklet 2	lower for			
Focus:		covered family characteristics				
Alcohol, tobacco		in terms of supervision,	versus control,			
		support, communication,	but not			
		skills. Booklet 3 covered what				
		families can do to discourage	baseline alcohol			
	in analysis: cigarettes use 400;	substance use through monitoring, rule setting, and	use was high for both groups. No			
		mutually agreed sanctions.	difference in			
		Booklet 4 covered social and				
	Control size in	peer pressures and building	chewing tobacco			
	analysis: cigarettes	resistance.	Data Source:			
	use 428; chewing	i esistance.	Self-report.			
eu reporteu III		Comparison: No treatment	Sell Teport.			

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
1998 U.S. dollars.	tobacco 570; alcohol 223.					
	Characteristics: Urbanicity: Mixed					
	Time Horizon: Baseline interviews June 1996 through February 1997. First booklet mailed July 1997 and final parent-child dyad completed program in September 1997. 4 booklets covered in sequence. Sessions					
Ath.a (Vaa).	not reported.	Strong African American	Deceling at ago 16	Mean societal cost	NR	NR
Corso et al. (2013)	USA	Families - Teen (SAAF-T)	y and post test at 17 y 10 m. 32%	per site	NK	NK
	Setting: Community			By multiple		
Design: RCT		Targets adolescent skill		imputation SAAF-T		
Economic		building, parenting skills training, and family	substance use and 47% decrease in	ACI \$14,102		
Outcome:		interactions training to	substance use	ΛΟΙ ΨΙΨ,102		
Intervention		prevent substance abuse and		By PSA (random		
cost	school rosters and	sexual risk behavior. 5 weekly	control (Brody	selection) SAAF-T		
	caregiver dyads	meetings at community		\$16,405		
Substances		facilities. Concurrent sessions		ACI \$13,854		
Focus:		for youth and parents		By PSA (bootstrap		
Alcohol,		separately followed by joint	Self-report.	selection) SAAF-T		
cannabis,	American	parent-youth session where		\$16,419		
tobacco		they practice what they learned in separate sessions.		ACI \$13,836		
Funding	in 4 counties.	learned in Separate Sessions.		Components of		
Source: NR	in reconnect.	Comparison: Attention		intervention cost:		
		control intervention (ACI)		Wages, training, client		

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
	Sample Size	focused on healthy diet and		transport and		
Values: Report		exercise		childcare, catering,		
	Intervention 102			supplies, overheads,		
dollars.	Control 97			participant time.		
	Characteristics:			Source: Trial and		
	African American 100%			administrative records		
	Mean age			Quality: Good		
	Parent 42.6 y					
	Child 16 y					
	Percent female					
	Parent 94%					
	Child 60%					
	Parent education					
	less than High					
	School 28%					
	Income					
	Mean annual					
	household income					
	\$24,502					
	Percent below 100%					
	of FPL 64%					
	Urbanicity: Rural					
	Time Horizon:					
	Intervention took					
	place in 2009. 5					
	weekly 2-hour					
	meetings.					
	Location: Iowa,	Strengthening Families	Grade 6 to			Authors state
	Pennsylvania, USA	Program (SFP) in Grade 6 and				SFP+LST is
(2014)	Calling, Calaral	one school-based intervention				cost-
Design: DCT	Setting: School	in Grade 7:	prevalence		of opioid misuse	effective:
Design: RCT	Population:	Life Skills Training (LST), All	versus control: SFP+LST -9.3			Cost to avert
Economic	Communities for the	Stars, or Project Alert.		intervention cost:		opioid misuse (\$3,959) <
		Intervention:	DIFTAII SLAIS -3.3			(\$3,959) < societal
Outcome:	PROSPER trials	Intervention:		Wages, family		societai

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
Intervention	chosen based on:		SFP+Project Alert	financial incentives,	Components	savings from
cost and cost	school enrollment	delivered within the PROSPER		supplies, volunteer		averted opioid
per	1301 to 5200; ≥15%	delivery system: SFP plus		and in-kind donations.	intervention	misuse .
intermediate	eligible for reduced	school-based intervention:	Change in		benefit:	(\$7,500)
health outcome	school lunch; ≤50%	SFP +LST	probability that	Source: Budget data,	healthcare,	
	employed at or	SFP+All Stars	a youth would	trial records,	productivity,	Authors state
Substances	attending	SFP+Project Alert.	report miusing	volunteer time.	crime,	SFP+All Stars
Focus:	college/university; no		prescription		mortality	is cost-
Benefits	other ongoing		before grade 12	Quality: Good		effective:
modeled for	university-sponsored	skills, parent-child	versus control:		Source and	Cost to avert
opioids	youth programs.	relationships, and adolescent	SFP+LST -9.5	Incremental	Method:	opioid misuse
		skills. LST develops youth	(significant)	intervention cost to	Societal burden	(\$4,923) <
Funding		attitudes, norms, information,		prevent 1		societal
Source:	(students):			prescription opioid		savings from
National	Intervention	and refusal skills.	(significant);	misuse before		averted opioid
Institute on	Life Skills Training		SFP+Project Alert		Quality: Good	misuse
Drug Abuse	1,166	program for adolescents	-1.6% (Not	SFP+LST \$3,959		(\$7,500)
		age11-14 designed to prevent	significant)	SFP+All Stars \$4,923		
Monetary	Project Alert 924	substance abuse and other				Quality: Good
Values: Assum			Note SFP+Project	Quality: Good		
ed reported in	5,292 (No details)	promote healthy and positive				
2006 U.S.		behaviors of decision-making,				
dollars.	Characteristics:	goal setting, and peer	hence not			
	White 98%	pressure resistance.	considered for			
		Project ALERT is school-based				
	Child female 50%		analysis.			
	Child mean age 11.9	program to identify and resist				
	У		Data Source:			
	Urbanicity: Rural	ı,	Self-report.			
		substance use.				
	Income \$50,174	_				
		Comparison: No intervention				
	Time Horizon: Pre-					
	test from 2002-2010					
	during 6th grade.					
	Follow-up through					
	grade 12. Family					
	component					

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
	Strengthening Families Program (SFP) offered in Grade 6 and the school-based interventions offered in Grade 7. Follow-up in grades 7 though					
	12.		11.00	-		
Author (Year):		Family Empowerment	No difference	Mean cost per	Justice	Justice
Dembo et al. (2002)	Hiisborough County, Florida, USA	Intervention (FEI) as part of Youth Support Project (YSP).	between intervention and control.	Family \$1,500	system savings due to averted	system 2- year net cost (savings –
Design: Pre to	Setting: Home	Intervention:		Components of	incarceration	program
Post		24-hour access to YSP staff	Significant	intervention cost:	s (diversion	cost):
	Population:	who provided access and	decrease in	NR	to FEI	\$934,000
Economic	Recruited from	referrals to community	getting high or		program)	
Outcome:	juvenile offenders	resources. Personalized home	drunk on alcohol	Source: NR	\$95 per day	Quality:
Intervention	arrested on	visits by consultants to:	comparing FEI		per person	Limited
cost and	misdemeanor or	restore family hierarchy; set	completers to all	Quality: Fair	detained	
intervention	felony charges in	parent-child boundaries;	other youth and			
benefit		encourage parent	to non-		Components	
		responsibility; set rules and	completers.		of	
Substances		consequences; improve			intervention	
Focus:	based on gender and	parent skills; set parent	Data Source:		benefit:	
Alcohol	race by White,	expectations; improve	Self-report.		savings to	
	Latino, African	problem-solving skills among			justice system	
Funding	American. Latino and	youth; improve			due to avoided	
Source:	female oversampled.	communications; improve			incarcerations	
National		family contacts with school,				
Institute on	Sample Size	church, community activities.			Source and	
Drug Abuse	(participants):	Family interventions delivered			Method:	
	Intervention	by trained consultants who			Hillsborough	
Monetary	315	were not therapists, where			County Sheriff,	
Values: Assum	Control	training and supervision was			Public	
ed reported in	NR	by licensed clinicians.			Defender,	
2000 U.S.					State	
dollars.	Characteristics:					

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
	Race	Comparison: YSP services			Attorney's	
	African American	and referrals. Received			Office	
	41%	monthy calls to maintain				
	White 56%	contact.			Quality:	
	Other 3%				Limited	
	Ethnicity					
	Hispanic or Latino					
	26%					
	Parent mother only					
	51%					
	Child female 44%					
	Child mean age 14.5					
	У					
	Child in special					
	education 44%					
	Urbanicity: Urban					
	Parent semi-skilled or					
	unskilled occupation					
	37% Reason for arrest:					
	Felony property 52%					
	Misdemeanor					
	property 41%					
	Felony 17%					
	Misdemeanor					
	violence or drug 6%					
	Time Horizon:					
	Initial interviews					
	September 1, 1994					
	through January 31,					
	1998. Three 1-hour					
	meeting per week for					
	10 weeks (30					
	sessions) with entire					
	family.					

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
		, , , , , , , , , , , , , , , , , , , ,		Mean cost per		Benefit to
		Program (ISFP) and	methamphetami			Cost Ratio
(2011)		Strengthening Families		ISFP \$990	averted case	(benefit over
	Setting: School,	Program+Lifeskills Training		SFP+LST \$1,116		cost per
Design: RCT	community	(SFP+LST)	SFP+LST 0.0178		methampheta	averted case
				Components of	mine use	of
	•	Intervention:	Data Source:	intervention cost:	\$97,532	methampheta
		ISFP in Study 1 and	Self-report.	Wages, training,		mine use)
		SFP+LST in Study 2. ISFP		advertisements,		ISFP 3.84
		included both parents and		childcare, parent		SFP+LST 1.56
		adolescents focused on		travel, overheads,	intervention	
		parenting skills, parent-child		family financial		Quality: Good
Methamphetami	≥15% eligible for	relationships, and adolescent		incentives for ISFP.	healthcare,	
		skills. LST for adolescents		Wages, training,	productivity,	
		only and concentrated on		supplies for LST.	worksite crime	
		youth attitudes, norms,				
		information, and substance		Source: Trial records		
	, , , , , , , , , , , , , , , , , , , ,	use resistance and refusal			Method:	
		skills. The SFP is an		Quality: Good	National	
		adaptation of ISFP where both			Survey on	
National		parents and youth participate		Intervention cost	Drug Use and	
Institute on		with the same focus areas as		per averted case of	`	
		ISFP.		methamphetamine	2006).	
	(youth):			use:	Prevented	
		Comparison: No intervention		ISFP \$25,385	methampheta	
	Control			SFP+LST \$62,697	mine use from	
Values: Assum					effectiveness	
	Study 2 2,679			Source: Trial records	•	
2006 U.S.					and Association	
dollars.	Characteristics			Quality: Good	of Certified	
	(Study 1 and Study				Fraud	
	2):				Examiners for	
	White 98% and 99%				cost of	
	Mean mother age				employment-	
	37.2 y and 39 y				related	
	Dual parent 86% and				behaviors.	
	87%					
					Quality: Good	

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
	Child female 52%					
	and 46%					
	Urbanicity: Rural					
	Mean Household					
	Annual Income					
	\$34,000 and \$43,000					
	Time Horizon:					
	Pretest for the 2					
	studies were in 1993					
	and 1998,					
	respectively. ISFP					
	had 7 sessions.					
	SFP+LST had 22					
	sessions.					
Author (Year):	Location: Seattle,	Staying Connected with Your	Measurements	Mean cost per	NR	NR
Haggerty et al.	Washington, USA	Teen	taken at baseline	family		
(2015)			(8th grade) and	Group sessions cost		
	Setting: School,	Intervention:	9th and 10th	\$728		
Design: RCT	home for self-	Consists of 108-page	grades and at age	Self-administered		
	managed	workbook and 117-min video.		sessions \$254		
Economic		Improve family management		•		
Outcome:	Population: White	though guidelines,	For group	Components of		
Intervention	and African American	monitoring, and consistent	sessions, there	intervention cost:		
cost		and fair positive and negative	was small but	NR		
		consequences for behavior,	significant			
Substances	public schools	and prevention if	reduction in young	Source: NR		
Focus:		communication dropoff in	adult drug use			
Alcohol,	Sample Size	high school. One arm was	frequency.	Quality: Fair		
cannabis,	(families):	self-managed and second arm				
unspecified	Group sessions 118	was group based. One	For self-			
drugs	Self-managed 106	chapter per week from	administered			
_	Control 106	workbook. Parent and child	among Whites,			
Funding		viewed video, separated to	there was			
Source:	Characteristics	practice skills, and met again	significant			
National	White 51%	for structured family	reduction in young			
Institute on	African American	interaction tasks. Self-	adult drug use			
Drug Abuse	49%	administered groups were	frequency and not			

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
M -	Parent female 80%	mailed materials and given 10				
Monetary	Annual household		African			
Values: Report	African American	workbook, with phone discussions.	Americans.			
	\$7,807	uiscussions.	Data Source:			
	\$7,607 White \$21,970.	Comparison: No intervention				
	Single parent	Comparison: No intervention	Structural			
	African American		equations latent			
	57%		variable modeling			
	White 24%		variable modeling			
	College graduate					
	African American					
	13%					
	White 61%					
	Urbanicity: urban					
	orbanicity: arban					
	Time Horizon:					
	Three 2.5-hr sessions	;				
	and 4 2-hr sessions					
	over 7 weeks during					
	grade 8.					
	Location: Colorado,	Communities that Care (CTC)	Odds ratio for	Mean cost per	Mean total	Benefit to
	Illinois, Kansas,			youth	benefits per	Cost Ratio
(2015)	Maine, Oregon, Utah,				youth:	8.22
	Washington, USA	12 communities chose			\$4,477 with	Low 8.08 and
Design : Model		interventions they would	Alcohol use 1.43		95% CI	high 8.36
	Setting: School,	implement. The family-based	Cigarette smoking	I = -	(\$4,413,	100% of Monte
Economic	community	interventions that were		intervention cost:	\$4,540)	Carlo
Outcome:		implemented during grades 5		Staff wages, CTC and		simulations
Cost-benefit	Population:	,			•	showing
_		decreasing frequency):	were significant.		of	benefits exceed
	years and their	Guiding Good Choices,		program		cost.
	families in	Strengthening Families,		implementation,	benefit:	[
Alcohol, tobacco	communities where	Family Matters, Parenting		training, technical		Quality: Good
	schools agree to	Wisely, and Parents Who	Generalized linear		earnings, and	
Funding	implement	Care. School-based	mixed model		averted crime,	
Source:	intervention.	curriculum interventions		incentives-meals-child	· · · · · · · · · · · · · · · · · · ·	
National		included: All Stars, Life Skills	baseline		property loss,	

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
Drug Abuse, National Institute of Child Health and Human Development, National Cancer Institute, National Institute of Mental Health, Center for Substance Abuse Prevention, National Institute on Alcohol Abuse and Alcoholism Monetary Values: Report ed in 2011 U.S.	Intervention 2,193 Control 1,797 Characteristics White 64% African American 3% Native American 5% Asian 1% Hispanic or Latino	Training, Lion's Quest for Adolescents, Program development evaluation, Project Alert, Olweus Bullying Prevention, Project Topwards, No drug Abuse. After school interventions were: Stay Smart, Participate and Learn Skills, Big Brother/ Big Sister, tutoring, Valued Youth. Comparison: No intervention	and demographics	participating communities, logs and documentation from CTC staff Quality: Good	loss due to tax.	
McCollister et al. (2014) Design: RCT Economic Outcome: Family financial incentives	Dade, Florida, USA Setting: School, community Population: Hispanic families with adolescents Sample Size (families):	parents and adolescent participation and engagement. Uses Caretaker Drug Abuse Treatment Cost	88% for family sessions and 79% for group sessions. Attendance rate for the uncompensated Prado 2012 study	per family	NR	NR

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
Unspecified	Control 104		and 75% for	Source: Self-report		
subtances		Familias Unidas is Hispanic-	family sessions.	on surveys		
	Characteristics:	specific family-based '	,	,		
Funding	Hispanic or Latino	intervention to prevent	Compensation	Quality: Fair		
Source:		adolescent problem behaviors				
		and substance use and HIV.	increase			
Institute on		Intervention improves	participation and			
		awareness, promotes	engagement.			
Drug / Wase		communication, and provides	citgageriletter			
Monetary		skills to raise adolescents in	Data Source:			
		the US.	Self-report on			
ed in 2009 U.S.	Orbanicity: Orban	the os.	surveys			
dollars.	Time Horizon:	Comparison: No intervention	Sui veys			
uoliais.	Cost study ran from	Comparison. No intervention				
	August through					
	September 2009.					
	Intervention was 4					
	months duration with					
	booster every 6					
	months. 9 2-hour					
	sessions for parents					
	and 10 1-hour					
	sessions for parents					
	and adolescents					
	together.					
		Strengthening Families	Alcohol use and	Total cost was for		Incremental
Segrott et al.	United Kingdom	Program (SFP) adapted to	alcohol		in healthcare	EQ-5D for
(2022)		United Kingdom	drunkenness past		utilization or	adults
	Setting: Community			£1,163,278.	utilization of	-0.046
Design: RCT		Intervention:		Per participant cost	other services	Incremental
	Population: Families	Universal provision with	but not significant	for intervention and	at 9, 15, and	cost £904
Economic		intensity based on need (risk).		control £1,240.	24 months.	
Outcome:	11/1 v Pacrilitmant	Structured intervention with	1.46). Similalrly,			Hence,
Cost-	through fliers and		there were no	Components of	No difference	intervention
effectiveness	information in	manuals delivered through	statistically	intervention cost:	in quality of life	was
	schools, community	existing UK channels that	significant [*]	Staff time, training,	for adults.	dominated,
		tended to be targeted based		participant time,		that is QALY
Focus:	centers, and social	lended to be targeted based		facilities and		

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Economic Summary Measure
Funding Source: Welsh government, Medical Research Council, NICE, Alzheimers Research trust, Alzheimers Socity, British Heart Foundation, Cancer Research UK, Scottish Government, Cardiff Strengthening Families Program, Wellcome Trust Monetary Values: Assum ed reported in	referred or self-referred. Sample Size: Intervention Families 361, Children 477 Control Families 354 Children 454 Characteristics White 99.6% Median parent age 37 y Parent female 22.3% Single parent 14.8% Child female 56.4% and 46% Median child age 12 y Urbanicity: Mixed Family affluence: Low 21.0%, Medium 48.8%, High 30.2%	on need. Objective was preventing alcohol misuse, followed by drug misuse, smoking, alcohol initation and problems, and school performance. Delivered by existing mult-agency trained staff responsible for supporting families or substance misuse prevention. 7 weekly sessions of 2 hours each. First hour for child and parent separately and second hour for parent/child joint session. Implemented in 56 programs/sites. Comparison: Usual services provided in area for family, school, mental health, substance use.	between groups or subgroups. Data Source: Self-report.	implementers Quality: Good	quality of life for children by	
Spoth et al. (2002)	Location: Iowa, USA Setting: School, community	Program (ISFP) Preparing for the Drug Free Years (PDFY	Incremental alcohol disorders prevented per	Mean cost per family ISFP \$688.56 PDFY \$555.67	Lifetime benefit per alcohol-use disorder	Benefit to Cost Ratio (benefit over cost per averted

Study Information	Study and Population Characteristics	Program Name Intervention & Comparison	Effectiveness	Intervention Costs	Intervention Benefits	Summary Measure
		Intervention:	100 families	Components of	prevented	alcohol
Economic		ISFP and PDFY are small	versus control:		\$119,633	disorder)
Outcome:		group with 7 sessions for ISFP		Wages, training,		ISFP 9.60
Cost-benefit		and 5 sessions for PDFY. Both	PDFY 2.7	materials, family	Components	PDFY 5.85
		designed to enhance family		incentives, site	of	
Substances		protective factors and reduce		management,		Quality: Good
Focus:		1 ,	Life-time alcohol		benefit:	
Alcohol			ever use	parent travel,	healthcare,	
			extrapolated from	advertisements	mortality,	
Funding	Intervention	children and more parent-	self-reported		crime, injury,	
Source:	ISFP 162 (117			Source: Project and	property	
National	attended)		from birthdate to	trial records		
Institute on	PDFY 153 (124	Comparison: No intervention	test date.		Source and	
Drug Abuse,	attended)			Quality: Good	Method:	
National	Control				Based on	
Institute of	163 (No details)			Intervention cost	annual cost of	
Mental Health				per alcohol disorder	alcohol	
	Characteristics:			prevented	disorders	
Monetary	White 98.8%			ISFP \$12,459	published	
Values: Report	Mean mother age			PDFY \$20,439	elsewhere.	
ed in 1992 U.S.	37.2 y					
dollars.	Mean father age 40.1			Source: Trial records	Quality: Good	
	ly -			and effectiveness data		
	Dual parent 86.1%					
	Child female 54.8%			Quality: Good		
	Urbanicity: Rural					
	97% of mothers and					
	96.3% of fathers					
	completed high					
	school					
	Median household					
	income \$34,000					
	Time Horizon:					
	4 year study starting					
	in 6 th grade. Follow-					
	up at grade 7, 8 and					
	10.					

Programs Evaluated by Washington State Institute for Public Policy (WSIPP)

WSIPP - Methods

Program Effect	Program Cost	Program Benefits	Cost-Benefit
Candidate studies are searched from peer-reviewed, government, and	peer-reviewed studies or	Adjusted effect sizes converted to monetizable natural units (e.g., averted number of alcohol disorders or dependencies, high school graduation)	Cost-benefit outcome calculated as the ratio of total benefits to total program cost.
NGO sources. Studies are classed in decreasing order of strength for causal inference: experiment, natural experiment, quasiexperiment, other (which are excluded from review)	unavailable for program cost, the resources necessary are derived from program description and the resources are costed based on unit prices in State of	second measurement of effect (e.g., at 10-year follow-up) Common monetizable effects in WSIPP-evaluated	All cost-benefit input and outcome estimates are reported with their distributions, wherever possible mean and standard deviation mode and range
Individual study effects adjusted for:	Uncertainty of program cost estimates defined as bands ranging from +/-10% to +/-50% Program cost calculated for lifetime of participants and appropriately discounted.	 Cannabis, opioids, and alcohol disordered use (DSM-defined abuse or dependency) Regular (daily) tobacco use Other outcomes reported in substance use studies or outcomes associated with substance use Test scores or high school graduation 	Uncertainty of benefit to cost ratio expressed as probability that benefits will exceed cost, based on Monte Carlo simulations • random draws from key inputs and parameter values and repeated 10,000 times
Effect size obtained from adjusted estimates by meta-analysis and meta-regression, where possible.		Areas or sectors of impact in WSIPP-evaluated programs included in present review Labor market earnings Crime – for justice system and victims Healthcare – associated morbidity and substance use treatment Mortality Property loss – alcohol related crashes Deadweight loss of taxes – taxes to fund the program	

WSIPP - Programs

Program Name Monetary Values	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit
CASASTART (California's Striving	Program to prevent use of drugs, alcohol, or	Program Cost	Benefit-Cost Ratio
Together to Achieve Rewarding	encounter with the juvenile justice system.	\$14,768 per youth	-0.33
Tomorrows)	Composed of intensive case management;	Components:	Likelihood benefits
,	family services such as counseling and parent	Staff labor, staff training, parent or	exceed cost 9%
Setting:	training; community-enhanced policing; after-	caregiver financial incentives	Quality: Good
Community	school activities; tutoring; mentoring;	Quality: Good	
,	vouchers; and special events. Monitored by a		
Substances Focus:	case manager that coordinates the youth, their	Program benefits -\$4.917	
Alcohol, illicit drugs	families, their teachers, police officers, social	Components:	
account, among an age	service agencies, and neighborhood residents.	Crime, healthcare, labor market,	
Monetary Values: Reported in	Intervention approximately 24 months.	property, mortality, deadweight loss	
2022 U.S. dollars.			
	with lower socioeconomic status.	Quanty: 3334	
Communities That Care	Coalition-based community prevention to	Program Cost	Benefit-Cost Ratio
	prevent youth problem behaviors including	\$698 per youth	5.69
Setting:	underage drinking, tobacco use, violence,	Components:	Likelihood benefits
Community	delinquency, school dropout, and substance	Staff labor, staff training, parent or	exceed cost 87%
, , , , , , , , , , , , , , , , , , ,	abuse. Works through a community board to	caregiver financial incentives	Quality: Good
Substances Focus:	assess risk and protective factors among the	Quality: Good	Quanty: cood
Alcohol	youth in their community using a population-	Quanty: Good	
riconor	based survey of young people. The board	Program benefits \$3,967	
Monetary Values: Reported in	works to implement tested and effective	Components:	
2022 U.S. dollars.	programs to address the issues and needs that		
2022 0.5. dollars.	are identified.	property, mortality, deadweight loss	
	are identified.	Quality: Good	
Computer-based substance use	Uses technology to deliver interactive	Program Cost	Benefit-Cost Ratio
prevention programs		\$84 per youth	28.83
prevention programs		Components:	Likelihood benefits
Catting	drug and tobacco use, encourage resistance		
Setting:	skills, and change attitudes towards substance		exceed cost 64%
School, home, community	use. These programs generally include quizzes,	Quality: Fair	Quality: Fair
College Services	surveys, and feedback. They can be	Dur	
Substances Focus:		Program benefits \$2,411	
Alcohol, tobacco, cannabis	centers, or primary care facilities. Project	Components:	
	ASPIRE and Smoking Zine are two name-brand	I	
Monetary Values: Reported in	programs included in this evaluation.	property,	
2022 U.S. dollars		mortality, deadweight loss	
		Quality: Good	

Program Name Monetary Values	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit
Familias Unidas	prevent substance abuse, risky sexual	Program Cost \$1,756 per participant	Benefit-Cost Ratio 4.17
Setting:	behavior, and behavior problems. Sessions are		Likelihood benefits
School, home	facilitated by two therapists or counselors and focus on positive parenting, family	Staff labor, staff training Quality: Fair	exceed cost 69% Quality: Fair
Substances Focus:	communication, parental monitoring, and		
Alcohol, tobacco, cannabis,	adolescent risk (substance use, HIV)	Program benefits \$7,317	
unspecified substance, illicit drugs	behaviors. Included both a general population as well as adolescents with behavior or	Components: Crime, healthcare, labor market,	
Monetary Values: Reported in	delinquency problems.	property, mortality, deadweight loss	
2022 U.S. dollars	Involves eight parent group meetings and four family visits, either in homes or schools.	Quality: Good	
	Program duration ranges from six weeks to six months, with most included studies evaluating		
	the three-month version.		
Family Matters	For Hispanic and Latino adolescents Family-focused prevention program consisting	Program Cost	Benefit-Cost Ratio
railing matters	of four booklets, describing activities for	\$231 per family	9.19
Setting:	parents and youth to complete, mailed to	Components:	Likelihood benefits
Home	participating families. Each booklet covers a	Staff labor, staff training	exceed cost 73%
	different topic. The books are titled "Why	Quality: Fair	Quality: Fair
Substances Focus:	Families Matter," "Helping Families Matter to		
Alcohol, tobacco	Teens," "Alcohol and tobacco Rules Are Family Matters," and "Nonfamily Influences That	Program benefits \$2,124 Components:	
Monetary Values: Reported in	Matter."	Crime, healthcare, labor market,	
2022 U.S. dollars	Two weeks after each booklet is mailed,	property, mortality, deadweight loss	
	parents receive a phone call from a health educator to encourage completion of activities.	Quality: Good	
	The average family completes the program		
	over the course of several months.		
Guiding Good Choices (formerly	Program to improve parent-child interactions	Program Cost	Benefit-Cost Ratio
Preparing for the Drug Free Years)	and reduce the risk for substance use initiation among middle school students. A trained group		1.36 Likelihood benefits
Setting:	leader uses workbook and video-based	Staff labor, staff training, parent or	exceed cost 51%
Community	discussion models to guide each session.	caregiver financial incentives	Quality: Good
	Parents attend weekly group sessions lasting	Quality: Good	= -
Substances Focus:	two hours for five weeks; youth accompany	-	
Alcohol, tobacco, cannabis, illicit	their parents to one of these sessions.	Program benefits \$1,052	
drugs	The study in this evaluation included youth in 6 th grade and their families.	Components:	

Program Name Monetary Values	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit
Monetary Values: Reported in 2022 U.S. dollars		Crime, healthcare, labor market, property, mortality, deadweight loss Quality: Good	
New Beginnings for children of	Parents attend group sessions in an outpatient		Benefit-Cost Ratio
divorce	setting to learn about problem-solving,	\$853 per participant	0.45
	discipline strategies, and other topics. Some	Components:	Likelihood benefits
Setting:	programs also provide individual parent	Staff labor, staff training, parent or	exceed cost 49%
Out-patient visit	sessions, or both individual parent sessions	caregiver financial incentives	Quality: Good
	and group therapy sessions for children.	Quality: Good	
Substances Focus:	Weekly group sessions were provided for 10 or		
Alcohol, cannabis, unspecified	11 weeks. On average, families received 17	Program benefits -\$382	
substance, illicit drugs	hours of therapist time.	Components:	
	Program to prevent adjustment problems for	Crime, healthcare, labor market,	
Monetary Values: Reported in	children whose parents have recently divorced.		
2022 U.S. dollars	Programs served families with children who	Quality: Good	
	were 9 years old, on average.		
	Program is a three-tiered general prevention	Program Cost	Benefit-Cost Ratio
Check-Up (a.k.a Adolescent	program implemented in middle schools. The	\$51 per family	227.16
Transitions)	first level is a universal school component that		Likelihood benefits
Callia aa	establishes a family resource center available	Staff labor, staff training, supplies,	exceed cost 71%
Setting:	to students and families.	family resource center	Quality: Fair
School	A six-week prevention curriculum delivered to	Quality: Fair	
Cultura and Farmer	students introduces them to this family	Due anno han efite dala CEO	
Substances Focus:	resource. The second and third tiers provide	Program benefits \$11,652	
Alcohol, tobacco, cannabis,	more intensive services targeted to students	Components:	
unspecified substance	with behavioral or emotional problems. The	Crime, healthcare, labor market,	
Monetary Values: Reported in	central component of these targeted services is the Family Check-Up, which includes a	property, mortality, deadweight loss	
2022 U.S. dollars	family assessment and motivational	Quality: Good	
2022 0.3. dollars	interviewing. Participating families received	Quanty: Good	
	between 6 and 12 hours of services. Delivery		
	by a variety of school staff, including school		
	counselors, school psychologists, school social		
	workers, administrators, teachers, etc.		
Project Northland	Multilevel, universal intervention designed to	Program Cost	Benefit-Cost Ratio
	prevent substance use among adolescents in	\$114 per youth	3.21
Setting:	middle school. The 6 th grade home component		Likelihood benefits
School, home	targets parent-child communication via	Staff labor, staff training, supplies	exceed cost 56%
	homework assignments, group discussions,	Quality: Fair	Quality: Fair
	mornework assignments, group discussions,	Quanty: Fair	Quality: rair

Program Name Monetary Values	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit
Substances Focus: Alcohol, tobacco, cannabis	and the establishment of a communitywide task force. The 7 th grade school-based curriculum focuses on improving resistance	Program benefits \$367 Components:	
Monetary Values: Reported in 2022 U.S. dollars	skills and social norms regarding teen alcohol use, and includes class discussions, games, and role plays. The 8 th grade components include the peer-led Powerlines curriculum, a mock town meeting, and a community action project. Targets families and their students in 6 th , 7 th , and 8 th grades.	Crime, healthcare, labor market, property, mortality, deadweight loss Quality: Good	
Project STAR (Students Taught		Program Cost	Benefit-Cost Ratio
Awareness and Resistance, a.k.a	to prevent or reduce youth substance use. The		41.37
the Midwestern Prevention Project)	school component is implemented at the	Components:	Likelihood benefits
Call'a aa		Staff labor, staff training, supplies	exceed cost 72%
Setting:	13 classroom lessons using active social	Quality: Fair	Quality: Fair
School, community	learning techniques (e.g., role-playing and	D	
Cubatawasa Fassas	discussion) and homework, plus five booster	Program benefits \$3,067	
Substances Focus:	sessions implemented in the following school	Components:	
Alcohol, tobacco, cannabis, illicit	year. Parent, community, and mass media	Crime, healthcare, labor market,	
drugs	components are also implemented over a three- to five-year period to address multiple	property, mortality, deadweight loss Quality: Good	
Monetary Values: Reported in	influences on youth substance use.	Quality: Good	
2022 U.S. dollars	Starts with school-based component during		
2022 0.3. dollars	transition to middle school.		
PROSPER (PROmoting School-	Community-university partnership model is a	Program Cost	Benefit-Cost Ratio
	delivery system designed to help communities		0.88
to Enhance Resilience)	implement effective programs to prevent	Components:	Likelihood benefits
to Emance Resilience)	substance use and problem behaviors in youth.		exceed cost 44%
Setting:	Local teams comprising staff from the	caregiver financial incentives,	Quality: Good
School	university Cooperative Extension System,	supplies, overhead, implementation	Quanty: coo
	representatives and service providers from the		
Substances Focus:	public school system, youth and parents, and		
Alcohol, tobacco, cannabis, illicit	other community stakeholders. These teams	Program benefits \$352	
drugs			
	family-based program from a menu of effective		
Monetary Values: Reported in	programs. PROSPER teams offer technical	property, mortality, deadweight loss	
2022 U.S. dollars	assistance, coordination, and other supports.	Quality: Good	
	In addition, this intervention includes needs		

Program Name Monetary Values	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit
	assessments, quality assurance, fundraising support, and evaluation.		
Strengthening Families for Parents and Youth 10-14	Program to Reduce behavior problems and substance use by enhancing parenting skills, parent-child relationships, and family	Program Cost \$653 per participant Components:	Benefit-Cost Ratio 5.87 Likelihood benefits
Setting: School	communication. Trained group leaders use Strengthening Families curriculum and videos. Parents and youth attend weekly group	Staff labor, staff training, supplies, parent or caregiver financial incentives	exceed cost 60% Quality: Good
Substances Focus: Alcohol, tobacco, cannabis,	sessions lasting two hours for seven weeks. Each session includes a separate, concurrent	Quality: Good	
unspecified substance, illicit drugs Monetary Values: Reported in	one-hour parent and youth skills-building session followed by a one-hour family session. The studies in this analysis included middle	Program benefits \$3,836 Components: Crime, healthcare, labor market,	
2022 U.S. dollars	school students and their families.	property, mortality, deadweight loss Quality: Good	
Strong African American Families	Program is a seven-week community-based program developed for African American youth ages 11-12 and their caregivers to prevent	Program Cost \$850 per family Components:	Benefit-Cost Ratio 2.29 Likelihood benefits
Setting: Community	youth drug and alcohol abuse and postpone youth sexual involvement. Families meet in interactive small groups with trained	Staff labor, staff training, supplies, implementation Quality: Fair	exceed cost 56% Quality: Fair
Substances Focus: Alcohol	facilitators once a week for 2 hours. Lessons are intended to promote regulated, communicative parenting (monitoring and	Program benefits \$1,944 Components:	
Monetary Values: Reported in 2022 U.S. dollars	setting limits, clear communication around expectations about alcohol and sex, and racial socialization), as well as youth protective factors. Duration is 7 weeks. Targets African American youth ages 11-12 years.	Crime, healthcare, labor market, property, mortality, deadweight loss Quality: Good	
Strong African American Families—Teen	Program is a five-week community-based program developed for 16 year old African American youth and their caregivers to deter	Program Cost \$629 per family Components:	Benefit-Cost Ratio 3.62 Likelihood benefits
Setting:	youth substance use, conduct problems, and	Staff labor, staff training, supplies,	exceed cost 59%
Community	depressive symptoms. Families meet in interactive small groups with trained	implementation Quality: Fair	Quality: Fair
Substances Focus: Alcohol	facilitators once a week for 2 hours. Lessons are intended to promote protective caregiving (setting limits, monitoring, racial pride and	Program benefits \$2,279 Components:	

Program Name Monetary Values	•	Program Cost Program Benefits	Cost-Benefit
Monetary Values: Reported in 2022 U.S. dollars	strategies for dealing with discrimination, monitoring and supporting academic	Crime, healthcare, labor market, property, mortality, deadweight loss Quality: Good	

Programs Evaluated in Substance Abuse and Mental Health Services Administration 2008 (SAMHSA 2008)

SAMHSA 2008 - Methods

Program Effect	Program Cost	Program Benefits	Cost-Benefit	QALY	Cost per QALY
using data from WSIPP 2004, ¹ Hansen 2005 ² (SAMHSA internal	drawn from WSIPP 2004, primary evaluation studies, education and training resource, ³ Maryland governor's office on	Modeled outcomes from substance use outcomes to sectoral benefits using modified Rand model ⁵	measured as benefit to cost ratio which is ratio of total benefits to program cost. No uncertainty.	grasping, lifting, cognitive, mobility, sensory, cosmetic, and pain dimensions in Databook on Nonfatal Injury. ⁶ Translation to QALY achieved using	Cost per QALY gained = Net cost/QALY gained Net cost= program cost - averted healthcare cost No uncertainty

¹Benefits and Costs of Prevention and Early Intervention Programs for Youth - Summary Report (wa.gov). wsipp.wa.gov/ReportFile/882/Wsipp Benefits-and-Costs-of-Prevention-and-Early-Intervention-Programs-for-Youth Appendix-A.pdf

SAMHSA 2008 - Programs

Program Name	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit Cost per QALY
Adolescent Transitions	Program is a three-tiered general prevention program	Program cost per	Benefit-Cost Ratio
(a.k.a Positive Family	implemented in middle schools. The first level is a universal	youth \$1,200	7.80
Support)	school component that establishes a family resource center available to students and families.	Components: Staff labor, staff training	Quality: Fair
Setting:	A six-week prevention curriculum delivered to students	Quality: Fair	Cost per QALY
School	introduces them to this family resource. The second and third	,	Gained
	tiers provide more intensive services targeted to students with	Program benefits	\$10,300
Substances Focus:	behavioral or emotional problems. The central component of	\$9,500	Quality: Fair

²Hansen, W.B., et al., (2004). Analysis of the magnitude of effects of substance abuse prevention programs included in the National Registry of Effective Programs Through 2003: A core components analysis. Washington, DC. SAMHSA Internal document.

³Center for the Application of Prevention Technologies (CAPT) | EDC

⁴https://goccp.maryland.gov/

⁵School-Based Drug Prevention: What Kind of Drug Use Does It Prevent? | RAND

⁶Miller, Ted R. Databook on nonfatal injury: Incidence, costs, and consequences. The Urban Insitute, 1995.

Program Name	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit Cost per QALY
Alcohol, tobacco, cannabis, unspecified substance Monetary Values: Reported in 2002 U.S. dollars	these targeted services is the Family Check-Up, which includes a family assessment and motivational interviewing. Participating families received between 6 and 12 hours of services. Delivery by a variety of school staff, including school counselors, school psychologists, school social workers, administrators, teachers, etc.	Components: Crime, healthcare, mortality Quality: Good	
CASA Start (Californians Striving Together to Achieve Rewarding Tomorrows) Setting:	Program to prevent use of drugs, alcohol, or encounter with the juvenile justice system. Composed of intensive case management; family services such as counseling and parent training; community-enhanced policing; after-school activities; tutoring; mentoring; vouchers; and special events. Monitored by	Program cost per youth \$5,650 Components: Staff labor, staff training Quality: Fair	Benefit-Cost Ratio 0.9 Quality: Fair Cost per QALY
Community	a case manager that coordinates the youth, their families, their teachers, police officers, social service agencies, and	Program benefits	Gained \$173,000
Substances Focus: Alcohol, illicit drugs	neighborhood residents. Intervention approximately 24 months. Targets youth aged 11 to 13 in neighborhoods with lower	\$4,900 Components: Crime, healthcare,	Quality: Fair
Monetary Values: Reported in 2002 U.S. dollars	socioeconomic status.	mortality Quality: Good	
Family Matters Setting: Home	Family-focused prevention program consisting of four booklets, describing activities for parents and youth to complete, mailed to participating families. Each booklet covers a different topic. The books are titled "Why Families Matter," "Helping Families Matter to Teens," "Alcohol and tobacco Rules Are Family Matters," and	Program cost per family \$160 Components: Staff labor, staff training Quality: Fair	Benefit-Cost Ratio 30.0 Quality: Fair Cost per QALY
Substances Focus: Alcohol, tobacco		Program benefits \$4,800	Gained Cost-saving Quality: Fair
Monetary Values: Reported in 2002 U.S. dollars	The average family completes the program over the course of several months.	Components: Crime, healthcare, mortality Quality: Good	
Guiding Good Choices (a.k.a. Preparing for the Drus Free Years)	Program to improve parent-child interactions and reduce the risk for substance use initiation among middle school students. A trained group leader uses workbook and video-based discussion models to guide each session. Parents attend weekly group	Program cost per Family \$710 Components: Staff labor, staff training,	Benefit-Cost Ratio 3.40 Quality: Good
Setting: Community	sessions lasting two hours for five weeks; youth accompany their parents to one of these sessions.	parent or caregiver financial incentives Quality: Good	Cost per QALY Gained \$25,406
Substances Focus:	families.		Quality: Good

Program Name	Program and Population Characteristics	Program Cost Program Benefits	Cost-Benefit Cost per QALY
Alcohol, tobacco, cannabis,		Program benefits	
illicit drugs		\$2,500	
		Components:	
Monetary		Crime, healthcare,	
Values: Reported in 2002		mortality	
U.S. dollars		Quality: Good	
Strengthening Families		Program cost per family \$880	Benefit-Cost Ratio
Setting:	communication. Trained group leaders use Strengthening Families		Quality: Good
School	curriculum and videos.	labor, staff training,	Quality: Good
School	Parents and youth attend weekly group sessions lasting two	parent or caregiver	Cost per QALY
Substances Focus:	hours for seven weeks. Each session includes a separate,	financial incentives	Gained
Alcohol, tobacco, cannabis,	concurrent one-hour parent and youth skills-building session	Quality: Good	Cost-saving
unspecified substance, illicit	followed by a one-hour family session.	Quanty: Good	Quality: Good
drugs	The studies in this analysis included middle school students and	Program benefits	Quality. Good
urugs	their families.	\$10,000	
Monetary	chen families.	Components:	
Values: Reported in 2002		Crime, healthcare,	
U.S. dollar		mortality	
0.5. dollar		Quality: Good	
Duais at Nouthland	Multilaval universal intervention designed to prevent substance		Benefit-Cost Ratio
Project Northland	Multilevel, universal intervention designed to prevent substance use among adolescents in middle school. The 6 th grade home	Program cost per youth \$400	17.0
Sottings			
Setting:	component targets parent-child communication via homework	Components: Staff	Quality: Fair
School, home	assignments, group discussions, and the establishment of a	labor, staff training	Cook was OALY
Cub stances Facus		Quality: Fair	Cost per QALY
Substances Focus:	focuses on improving resistance skills and social norms regarding	D	Gained
Alcohol, tobacco, cannabis		Program benefits	Cost-saving
Manatawa	plays. The 8 th grade components include the peer-led Powerlines	\$6,900	Quality: Fair
Monetary	curriculum, a mock town meeting, and a community action	Components:	
Values: Reported in 2002	project.	Crime, healthcare,	
U.S. dollars	Targets families and their students in 6 th , 7 th , and 8 th grades.	mortality	
Duningt STAD (Chudonto	Comprehensive universal prevention presume to prevent or	Quality: Good	Donafit Cost Datio
Project STAR (Students	Comprehensive universal prevention program to prevent or	Program cost per	Benefit-Cost Ratio
Taught Awareness and	reduce youth substance use. The school component is	youth \$400	10.0
Resistance, a.k.a the	implemented at the transition to middle school and consists of	Components: Staff	Quality: Fair
Midwestern Prevention	10-13 classroom lessons using active social learning techniques	labor, staff training	6
Project)	(e.g., role-playing and discussion) and homework, plus five	Quality: Fair	Cost per QALY
	booster sessions implemented in the following school year.		Gained
Setting:	Parent, community, and mass media components are also	Program benefits	\$2,300
School, community		\$4,100	Quality: Fair

Program Name		Program Cost Program Benefits	Cost-Benefit Cost per QALY
Substances Focus: Alcohol, tobacco, cannabis, illicit drugs	Starts with school-based component during transition to middle	Components: Crime, healthcare, mortality Quality: Good	
Monetary			
Values: Reported in 2002			
U.S. dollars			
STARS for Families (Start		Program cost per	Benefit-Cost Ratio
Taking Alcohol Risks	The two-year intervention includes a 20-minute nurse	youth \$120	4.0
Seriously)		Components: Staff	Quality: Fair
	for parents and children. The program can be implemented in a	labor, staff training	
Setting:	, , , ,	Quality: Fair	Cost per QALY
School	Duration 2 years		Gained
		Program benefits	Cost-saving
Substances Focus:		\$490	Quality: Fair
Alcohol		Components:	
		Crime, healthcare,	
Monetary		mortality	
Values: Reported in 2022 U.S. dollars		Quality: Good	

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