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

Summary Evidence Table

This table outlines information from the studies included in the Community Guide systematic review of Family-based Interventions to Prevent Substance Use Among Youth. It details study quality, population and intervention characteristics, and study outcomes considered in this review. Complete references for each study can be found in the Included Studies section of the <u>review summary</u>.

Abbreviations Used in This Document:

- Intervention components
 - 0
- Measurement terms
 - $\circ \quad \text{CI: confidence interval} \\$
 - OR: Odds Ratio
 - IRR: Incidence rate ratio
 - RRR: Relative risk reduction or relative risk ratio
- Study design and Risk of Bias
 - RCT: randomized trial
 - ROB2: Cochrane risk of bias tool 2.0

- Other terms:
 - NA: not applicable
 - NR: not reported
 - NS: not significant
 - $\circ \quad \text{SES: socioeconomic status} \\$
 - $\circ \quad \text{Int: Intervention} \\$
 - Cont: Control
- Other terms (cont):
 - pct pts: percentage points
 - o m: months
 - hr: hours
 - min: minutes

Notes:

- Suitability of design includes three categories: greatest, moderate, or least suitable design. Read more
- Quality of Execution Studies are assessed to have good, fair, or limited quality of execution. Read more
- **Risk of bias** (quality scoring) was assessed with the Cochrane risk of bias assessment <u>original tool</u> and the Cochrane risk of bias <u>assessment tool 2.0</u> (ROB2)
- **Race/ethnicity** of the study population: The Community Guide only summarizes race/ethnicity for studies conducted in the United States.
- **Population characteristics** were reported if a study reported intervention and control separately.

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Author (Year):	Setting: Community	Brief description of	Brief description: Youth self-	Intention to treat, tests for differences
Allen et al. (2017)	settings: 2 primary	intervention and content:	reported tobacco use intentions	at baseline, and baseline indicators
	care clinics, 4 social-	Community-based participatory,	based on responses to	were similar between intervention and
Location: USA,	service agencies, and 1	family-focused tobacco	questions on susceptibility to	control groups.
Minnesota	public school	prevention intervention	smoking and baseline status	
		targeting parenting skills, and	Baseline	Multiple imputation methods in SAS
Years for Study:	Urbanicity: Urban and	positive parent youth	6 months post intervention	used to generate a random sample of
July 2011 - May 2014	rural	relationships		missing values that represents
			Tobacco use intentions:	uncertainty due to missing data.
Period for Study:	Eligibility: At least one	Active learning methods, such as	Questions 1) Do you think you	
8 months from baseline	Spanish-speaking	role-play, skill practice, and small	will try a cigarette soon? (not	Basic logistic regression model
to 6-month post	immigrant Latino	group discussions	asked of puffers), 2) Do you	investigated intervention effect on
intervention follow-up	families of adolescents		think you will be smoking	youth smoking susceptibility.
	(Latino youth 10 to 14	8 parent and 4 youth (combined)	cigarettes one year from now?	
Study Design:	years)	sessions; for combined sessions	3) If one of your best friends	Outcome: Tobacco use intentions
Individual RCT		parents and youth initially met	were to offer you a cigarette,	(susceptibility to smoking)
	Recruitment:	separately then came together	would you smoke it? A never-	Measure: scaled, proportion
CG Suitability:	Community	for skill building.	smoker was considered non-	
Greatest	presentations, local		susceptible if answer to the	Baseline
	radio and TV	Intervention/program name:	first question was 'No' and	Int (n=174): 30.6%
Risk of Bias	advertisements,	Padres Informados/ Jovenes	answers to both questions 2	Comp (n=172): 38.5%
Assessment (ROB2)	information on	Preparados (PIJP)	and 3 were 'Definitely not'; a	Follow-up (in months): 6 months
a) Randomization - Low	websites and		puffer was considered non-	Int (n=174): NR
b) Deviations – Some	professional email lists	Substance(s) focused*	susceptible if answers to	Comp (n=172): NR
concerns		General (skill-building exercises	questions 2 and 3 were	Absolute change: NR
c) Missing data - Some	Inclusion: Above	largely use tobacco and other	'Definitely not'.	Relative change: NR
concerns	Exclusion: Families	substance use as examples, thus		Narrative results: Intervention group
d) Outcome	who participated in	infusing all sessions with	Baseline smoking status:	did not predict smoking susceptibility
measurements - Low	pilot study	practical means for preventing	questions: 1) Have you ever	at 6 months follow up
e) Selective- Low		substance use)	smoked a cigarette, 2) Have	OR =0.66 (95%CI 0.40, 1.10), p =
	Sample size:		you ever tried or experimented	0.115
Overall bias: Some	Baseline 352 (6	Format: Small group sessions	with cigarette smoking even a	Favorable (Yes/No/No effect): Yes
concerns	families were ineligible	face-to-face	few puffs, and 3) Have you	Statistical significance: No
	& dropped)		smoked at least 100 cigarettes	
	Int 174 families	Intervention intensity: Weekly	in your life (only asked if	Subset Analyses: Intervention youth of
	Control 172 families		answered yes to question 1)?	parents having lower parental

6 month post-baseline Follow-up 87% (307/352)parent sessions with 4 of these sessions including youth and to 2), puffers (no to 1 and no to 2), puffers (no to 1 and yes to 2), supprimenters (yes to 1 and no to 3), smoking habit (yes to 1 and yes to 3)as measured by self-reported M/ Mexican American Cultural Value to 2), supprimenters (yes to 1 and no to 3), smoking habit (yes to 1 and yes to 3)as measured by self-reported M/ Mexican American Cultural Value Stady population: Favorable (Yes/No/No effect): Ye Significant ! ess like report high smoking susceptibilit (Yes to 1 and yes to 3)as measured by self-reported M/ Mexican American Cultural Value (yes to 1 and yes to 3)6 month loss to f/u 13% (45/352)Total hours of intervention: 20 for parents; 10 for youthSubstance(s)* tobaccoOR=0.35 (95%CI 0.16, 0.75), p Favorable (Yes/No/No effect): Ye Significant ! ess like Hores Community-based participator Parents and intervention and identify and trained fracilitatorsIntervention and identify and Intervention and identify and trained fracilitators from community partner organizations etc.)? NOOutcome types Interving we favorable (Yes/No/No effect): Ye Significant ! ess like participated in three days of group trainingMetal health (depressive symptows; anxiety; etc.)? NO1 made no to ingere month more than \$1,000 per month Marital status: 63.8% Martid YouthTintervention duration: 8 weeksOutcomes ? 	Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
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(307/352)parent + youth contentto 2), experimenters (yes to 1)Scale) were significantly less like report high smoking ausceptibilit (yes to 1 and yes to 3)Int 152 families Control 155 families of month loss to f/u 13% (45/352)Number of hours per session: 2.5into to 3), smoking habit (yes to 1 and yes to 3)Scale) were significantly less like report high smoking susceptibilit (yes to 1 and yes to 3)0 for parents; 10 for youthSubstance(s)* total nours of intervention: 20 for parents; 10 for youthSubstance(s)* totaccoOR=0.35 (95%CI 0.16, 0.75), p Favorable (Yes/No/No effect): YesParents and Caregivers additional components: Yes Sex: 92.5% female (91.4% mothers), 7.5% male Education: 73.8% high school or higher Employed or Independent worker Independent worker Independent worker Independent worker Independent worker Independent worker Incerne: 61.1% earner month Marital status: 63.8% Marital status: 63.8% <td></td> <td>6 month post-baseline</td> <td>parent sessions with 4 of these</td> <td>never-smokers (no to 1 and no</td> <td>as measured by self-reported MACVS (</td>		6 month post-baseline	parent sessions with 4 of these	never-smokers (no to 1 and no	as measured by self-reported MACVS (
Int 152 families Control 155 familiesNumber of hours per session: 2.5 hoursand no to 3), smoking habit (yes to 1 and yes to 3)report high smoking susceptibilit 		Follow-up 87%	sessions including youth and	to 2), puffers (no to 1 and yes	Mexican American Cultural Values
Control 155 familieshours(yes to 1 and yes to 3)OR=0.35 (95%CI 0.16, 0.75), p6 month loss to f/ufor parents; 10 for youthSubstance(s)*OR=0.35 (95%CI 0.16, 0.75), p13% (45/352)Additional components: YesSubstance(s)*Substance(s)*2 Study population:Parents andCommunity-based participatoryPolysubstance measures? NoParents andCommunity-based participatoryPolysubstance measures? NoAge: 38.2train facilitatorsIntentions? YESSex: 92.5% femaleBabysitting was offered atUse? NO91.4% mothers),Babysitting was offered atUse? NO2.5% dethickImplementer(s):score; attainment; graderation by study criteriaTrained facilitators fromcommunity partner organizationsEmployed orIndependent workerIncome: 61.1% earnedInceme: 61.1% earnedmore than \$1,000 permort than \$1,000 perMarital status: 63.8%marriedFocus of interventionMarital status: 63.4%Focus of interventionGother outcomes?YouthStudy Population:Focus of interventionOther outcomes?YouthStudy Population:Focus of interventionOther outcomes?YouthBoth parents/caregivers andOther outcomes?		(307/352)	parent + youth content	to 2), experimenters (yes to 1	Scale) were significantly less likely to
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married Focus of intervention Other outcomes? Study Population: activities: Parenting behaviors - Youth Both parents/caregivers and Monitoring knowledge, Personal		month	Intervention duration: 8	focused on one historically	
Focus of intervention Study Population:Focus of intervention activities:Other outcomes? Parenting behaviors - Monitoring knowledge, Personal			weeks	disadvantaged group)? YES	
Study Population: Youthactivities: Both parents/caregivers andParenting behaviors - Monitoring knowledge, Personal			Focus of intervention	Other outcomes?	
Youth Both parents/caregivers and Monitoring knowledge, Personal		Study Population:			
		Age: 12.3 years	youth: Yes	involvement, Consistent	
(range: 10 – 14) Parents only: No discipline, Self-efficacy, Social				-	
Grade level(s): NR Support					

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: 49.4% female,	Comparison group: Usual care-		
	50.6% male	delayed intervention group		
	Race/ethnicity: 100%			
	Latino by study criteria			
	Other			
	77.6% U.S. born,			
	89.2% never smoked,			
	30.6% susceptible to			
	smoking, 77.5%			
	smoking not allowed in			
	home			
	Community			
	characteristics: Study			
	region has economic			
	and racial segregation			
	with risks of			
	concentrated poverty			
Author (Year):	Setting: Home;	Brief description of	Brief description:	All outcomes had zero use at baseline
Bauman et al. (2001)	booklets delivered to	intervention and content:	Initiation of tobacco, both	for participants. Alcohol use onset
	home of intervention	Within a month after the baseline	smoking and non-smoking, and	sample was substantially smaller than
Location: Contiguous	families; telephone	interview, treatment group	alcohol	smoking onset sample. There were
USA (excluding Alaska	interviews with family	parents were mailed booklet 1 of		fewer nonusers of alcohol than
and Hawaii)	units	4. The first booklets were sent in	Substance(s)*	nonusers of cigarettes at baseline
		July 1996, and the final parent-	Tobacco (cigarettes and	
Years for Study:	Urbanicity: Mixed	adolescent pair completed the	chewing tobacco) and alcohol	Outcome: Tobacco use initiation –
Baseline to last follow-		program in September 1997		cigarettes
up: June 1996 -	Eligibility: Families		Polysubstance measures?	Measure: Self-reported from
January 1999	with at least one 12-14	Four booklets sent during course	No	adolescents; answers to question: How
	year old living in	of program; each booklet had		much have you ever smoked cigarettes
Period for Study:	continental USA	activities for the families	Outcome types	in your life? Answers were collapsed
32 months (intervention			Intentions? NO	into never used ("none at all, not even
+ f/u months)	Recruitment:	Telephone sessions: 2 weeks	Initiation? YES	a puff") or had used (1 puff to multiple
	64,811 telephone	after each booklet was sent, a	Use? YES	cigarettes in life)
	numbers selected to be	health educator contacted a	SU disorder? NO	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study Design:	representative of US	parent by telephone to discuss	Educational outcomes? NO	Baseline: 0% for both intervention and
Individual RCT	population; 2395	booklet, answer questions, and	Morbidity? NO	control
	estimated to have age-	record information.	Mortality? NO	12 months follow-up
CG Suitability:	appropriate	New booklet sent when health	Equity? Yes	Int (n=400): 26% (estimated from
Greatest	adolescents; 1326	educator determined the prior	Other outcomes? NO	figure 1)
	completed baseline	booklet was completed		Comp (n=428): 31% (estimated from
Risk of Bias	telephone interview;			figure 1)
Assessment	1316 included in study,	Intervention/program name:		Absolute change: -5 pct pts
a) Randomization	then randomly	Family Matters		Relative change: 16.4% (fewer
b) Concealment	assigned to			adolescents smoking initiators at
c) Blinding	intervention or control	Substance(s) focused*:		second follow up compared with control
d) Outcomes	group	Tobacco (cigarettes and chewing)		group)
e) Selective		and alcohol		Narrative results: Odds ratio: 1.30,
	Inclusion/Exclusion:			P=.037
	Household included an	Format: Remote		Favorable (Yes/No/No effect): Yes
	eligible parent-	Mailed booklets plus telephone		Statistical significance: p=0.037
	adolescent pair with at	calls		
	least one adolescent	Intervention intensity:		Stratified analysis, Health Equity:
	living in the household.	Number of sessions or modules:		program appears to have influenced
		maximum 4 booklets + 4 phone		smoking initiation for non-Hispanic
	Sample size:	calls		Whites but not for the other
	1198 of 2395	Number of hours per session: NR		racial/ethnic group. These reductions
	adolescent-parent pairs	Total hours of intervention: NR		translate into effect sizes of 0.15 for
	eligible for program;			the total sample and 0.25 for non-
	assumed to be	Implementer(s)		Hispanic Whites
	randomized	Health educators called families		OR, white: 1.61, p=0.007
	Intervention: 549	after each booklet was mailed		OR, other: 0.66, NS
	families began			
	program; 407	Intervention duration:		Outcome: Tobacco use – chewing
	completed it	July 1996 - September 1997		tobacco
		15 months		Measure: Self-reported from
	Baseline: 1316 pairs			adolescents; answers to question Have
	interviewed; 1198	Focus of intervention		you ever tried chewing tobacco or
	families randomized	activities:		snuff? Response categories were Yes or
				No

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Intervention: 549/1198	Both parents/caregivers and		
	= 45.8% parent-	youth: No		Overall: No statistically significant
	adolescent pairs	Parents only: Yes		program effect was seen for onset of
	started			smokeless tobacco or alcohol use.
	Control: 649/1198	Comparison group: No		Sample size inadequate for assessing
		intervention		program effects
	Follow-up	Control group was contacted only		Int (n= 505): 6% (estimated from
	Interview: 1135/1316	for data collection.		figure 1)
	(86.2%) adolescents			Comp (n=570): 4% (estimated from
	baseline pairs			figure 1)
	completed either the			Absolute change: +2 pct pts
	first follow-up or the			Relative change +50%
	second follow-up, and			Narrative result: OR: 0.78; NS
	1014 (77.1%)			Favorable (Yes/No/No effect): No
	completed both follow-			Statistical significance: NS
	up interviews			
	Tatamantina			Outcome: Alcohol use initiation
	Intervention:			Measure: Self-reported from
	407/549 (74.1%) completed			adolescents; answers to question: How much alcohol have you ever had in
	completed			your life? Answers collapsed into never
	Loss to f/u:			used ("none at all, not even a sip") or
	142/549 = 25.9%			had used (1 sip to multiple drinks in
	142/349 - 23.970			life)
	Study population:			ine)
	Parents and			Overall conclusion: No statistically
	Caregivers			significant program effect was seen for
	Age: NR			onset of alcohol use
	Sex: NR			
	Race/ethnicity: NR			Baseline: 0% for both intervention and
	Education: NR			control
	Income: NR			Int (n=193): 39% (estimated from
				figure 1)
	Study Population:			Comp (n=223): 44% (estimated from
	Youth			figure 1)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Age: 12 to 14 Grade level(s): NR Sex: NR Race/ethnicity: fewer non-Hispanic Whites were in the treatment group (70.6%) than in the control group (76.1%) Community characteristics: NR			Absolute change: -5 pct pts Relative change: -11% Narrative results: OR=1.26, P=.100 11.1% lower for the program group than for the control group at the second follow-up Favorable (Yes/No/No effect): Yes Statistical significance: p=0.1 Outcome: Alcohol and smoking frequency of use Measure: self-reported; smoking or
				drinking 6 or more days out of the past 30 days Absolute change: NR Relative change: NR Narrative results: No statistically significant program effects were seen for frequency of use Favorable (Yes/No/No effect): can't determine Statistical significance: NS
Author (Year): Becker et al. (2021)	Setting: Mix - community (coaching at treatment facility)	Brief description of interventions and content: Parent SMART+TAU		Missing data analyses examined if missingness systematically associated with condition, site, or outcome
Location: USA, New England and Midwest	and home (online website) Urbanicity: Mixed	Parent SMART: multi-component technology-assisted intervention started after admission and post-	Global Appraisal of Individual Needs-Q3 (GAIN-Q3): briefer 30–45-min version of	variables. Percentages may not sum to 100 on some variables, reflecting missing data.
Years for Study: NR Period for Study: 6 months	(two treatment facilities in different states)	discharge (a) at home, online parenting program, Parenting Wisely (PW), videos demonstrating parenting skills, (b) up to 4, one-on-one, in-	comprehensive 90–120-min GAIN interview. Includes 8 domains: SU, mental health, physical health, risk behaviors, school, work, crime and	Proportion of days used variables highly zero-inflated/specified with zero- inflated negative binomial distribution. 2 outcomes
Study Design:		person or remote coaching	violence, and stress sources	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Individual RCT	Eligibility: Adolescents	sessions on PW skills, (c)		Focal effect: time*condition interaction
	at one of included	web/app parent networking	Proportion of days used =	in count distribution, i.e., effect of
CG Suitability:	facilities	forum (for connectivity and	number of days substances	condition (Parent SMART vs. TAU) over
Greatest		clinical extender)	used divided by number of	time on predicting proportion of days
	Recruitment:		days spent outside of a	used > than 0.
Risk of Bias	Recruited from short-	PW: 6-month subscription,	controlled environment,	
Assessment (ROB2)	term and long-term	10 common family problem	rounded to nearest integer.	Data below based on only count
a) Randomization –	residential treatment	videos and workbook (finding		analyses results for number# of days
Some concerns	facility (37 dyads from	drugs, schoolwork, sibling	School related problems	used variables.
b) Deviations – Low	short-term [i.e., 6–10	conflict). Video/workbook	= being late or tardy, cutting	Full results, including zero-inflated
c) Missing outcomes –	day] and 24 dyads	components: family problem	class, absenteeism, trouble	component, in Supplemental Table 1.
Low	from long-term [i.e.,	short clip; 1 of 3 possible	with grades	(For Tables 3 and 4, RR: change in
d) Outcome	30–45 day] facility)	problem solutions, with selected		rate, negative coefficients indicate a
measurements – Low		solution re-enactment (pros and	Substance(s)*	reduction in days of use or problem
e) Selective – High	Inclusion:	cons)	alcohol, cannabis, and any	behavior; therefore, a negative
	Parents: (1) legal		substance	coefficient on the time*condition
Overall bias: High	guardian of a 12-17-	TAU: at residential facility		interaction favors the experimental
	year-old admitted to	(described below in control	Polysubstance measures? No	condition.)
	residential treatment	section)		
	due to problems		Outcome types	Short-term residential
	related to SU; (2)	Intervention/program name:	Intentions? NO	Outcome: Alcohol use
	would remain custodial	Parent SMART (Substance Misuse	Initiation? NO	Measure: proportion of days used
	guardian of adolescent	in Adolescents in Residential	Use? YES	(count distribution), last 90 days
	post-discharge; (3)	Treatment) +TAU (treatment-as-	SU disorder? YES, substance-	
	English or Spanish	usual)	related problems	Baseline
	fluency; (4) willing and		Educational outcomes (test	Int (n=18): 12% (0.3)
	able to complete	Substance(s) focused*	score; attainment; grade	Comp (n=19): 6% (0.1)
	baseline assessment	General	retention; disciplinary actions;	Follow-up (in months): 6
	prior to adolescent's		etc.)? YES, school related	Int (n=13): 2% (.02)
	discharge; (5) reliable	Format: Both (face-to-face or	problems	Comp (n=16): 3% (.05)
	access to phone to	remote one-on-one, printed and	Mental health (depressive	Absolute change: -7 pct pts
	receive text messages	online materials)	symptoms; anxiety; etc.)? NO	Relative change: -66.7%
	and internet-capable		Morbidity? NO	Narrative results: Significant
	device to receive TAI.	Intervention intensity:	Mortality? NO	time*condition interaction: intervention
		Parent SMART+TAU:		adolescents showed decline in count

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Adolescents: Had a	One-on-one coaching= up to 4	Equity (stratified analysis;	distribution compared to control (RR =
	parent who met above	sessions	focused on one historically	0.69, b= -0.37, 95% CI = 0.49-0.97).
	criteria, and if they	TAU parent groups= ST: 1	disadvantaged group)? NO	Favorable (Yes/No/No effect): Yes
	confirmed recent SU	discharge planning session on		Statistical significance: $p = .034$
	during the baseline	average; LT: periodic (e.g.,	Other outcomes:	
	assessment (i.e.,	weekly to monthly)	externalizing behavior, criminal	Outcome: cannabis use
	alcohol or other drug		(crime and violence) behavior,	Measure: proportion of days used
	use, past 90 days).	Number of sessions or modules:	feasibility (e.g., parental	(count distribution), last 90 days
		Parent SMART: 10 video	effectiveness), acceptability	
	Exclusion:	modules, 4 coaching sessions	(e.g., parental satisfaction,	Baseline
	No history of substance	Number of hours per session:	willingness to recommend the	Int (n=18): 29% (0.4)
	use	Parent SMART Coaching: 60–75	intervention)	Comp (n=19): 52% (0.4)
	Not returning home	min (1 st), 45–60 min (2 nd – 4 th)		Follow-up (in months): 6
	Unable to complete	Total hours of intervention:		Int (n=13): NR
	assessment	Parent SMART (PW+Coaching)		Comp (n=16): NR
		+TAU:		Absolute change: NR
	Sample size:	PW = 3-5 hour average		Relative change: NR
	Baseline 61	Coaching = 195 – 255 mins		Narrative results: no significant time
	Int 30	TAU, at both sites = $\sim 20-25$		or time*condition interactions (b=0.15,
	ST= 18	hours per week		p=0.20 RR=1.16, 95%CI: 0.93 - 1.44)
	LT = 12			Favorable (Yes/No/No effect): No/No
	Control 31	Additional components (things		effect
	ST = 19	outside the sessions/modules):		Statistical significance: No
	LT = 12	After randomization, all families		
		received a Parent Resource		Outcome: Any substance use
	6m-Follow-up	Guide developed for study: it		Measure: proportion of days used
	Int 79% (23/30)	contained information on		(count distribution), last 90 days
	ST = 72% (13/18)	different drugs and treatment		
	LT = 83% (10/12)	approaches from the NIDA		Baseline
	Control 87% (27/31)	(National Institute on Drug		Int (n=18): 41% (0.4)
	ST = 84% (16/19)	Abuse) website for teens and		Comp (n=19): 57% (0.4)
	LT = 92% (11/12)	information on how to find a		Follow-up (in months): 6
		therapist, including a list of local		Int (n=13): NR
	6m-Loss to f/u	referral options developed in		Comp (n=16): NR
	Int 20% (6/30)	partnership with programs.		Absolute change: NR
	ST = 22% (4/18)			Relative change: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	LT = 17% (2/12)	Implementer(s):		Narrative results: No significant time
	Control 13% (4/31)	BA or MA educated and trained		or time*condition interactions (b=0.12,
	ST = 16% (3/19)	coaches, at least one fluent in		p=0.15, RR=1.13, 95%CI= 0.96 -
	LT = 8% (1/12)	Spanish + 2 hour training		1.33)
				Favorable (Yes/No/No effect): No/No
	Study population:	Reviewed Parent SMART manual,		effect
	Parents and	completed 2 PW online modules,		Statistical significance: No
	Caregivers	visited parenting networking		
	Age: 44.3 mean (ST,	forum, listened to 2 pre-recorded		Outcome: SU disorder (substance-
	n=18), 43.3 mean (LT,	coaching sessions		related problems)
	n=12),			Measure: scale, past month in means
	Sex: Total intervention	Intervention duration: NR (up		(SD)
	only (n=30) 87%	to 6 months)		
	female, 13% males			Baseline
	ST - 83% female, 17%	Focus of intervention		Int (n=18): 1.72 (1.74)
	males	activities:		Comp (n=19): 1.58 (1.50)
	LT - 92% female, 8%	Both parents/caregivers and		Follow-up (in months): 6
	males	youth: Yes		Int (n=13): NR
	Race/ethnicity:	Parents only: No		Comp (n=16): NR
	Total intervention			Absolute change: NR
	(n=30): 87% white,	Parent and child (either in the		Relative change: NR
	10% Black, 3%	same session or not)? Yes		Narrative results: No significant time
	multiracial/prefer not	Parent and child in the same		or time*condition interactions (b= -
	to answer; 27%	session/activity? Yes (online		0.17, p=0.19 RR=0.13, 95%CI =
	Hispanic/Latinx	activity)		-0.43 - 0.08)
	<i>ST</i> - 89% white, 6%			Favorable (Yes/No/No effect): No/No
	Black,	Comparison group: Treatment		effect
	6%multiracial/prefer	as usual (TAU)-only, adolescent		Statistical significance: No
	not to answer; 17%	residential treatment-as-usual;		
	Hispanic/Latinx	traditional, office-based		Outcome: Educational outcomes
	<i>LT</i> - 83% white, 17%	continuing care		(school related problems)
	Black, 42%			Measure: scale, past 30 days in means
	Hispanic/Latinx			(SD)
				Baseline
				Int (n=18): 1.83 (1.34)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Education: 13.6 mean			Comp (n=19): 1.16 (1.30)
	(ST, n=18), 14.8 mean			Follow-up (in months): 6
	(LT, n=12),			Int (n=13): 1.17 (1.47)
				Comp (n=16): 1.75 (1.00)
	Employment (FT work)			Absolute change: +1.25 pts
	63% (Total			Relative change: +90.9%
	intervention, n=30)			Narrative results: Table 4, significant
	61% (ST), 67% (LT)			time*condition interaction =
	Income: NR			intervention adolescents showed
	Marital status: NR			decline over past month compared with
	Other from total			control (b = -0.27 , 95% CI = $-$
	sample			0.53–0.01, RR: 0.13).
	Biological parent –			Favorable (Yes/No/No effect): Yes
	95% (58/61)			Statistical significance: $p = .042$
	Other blood relative –			
	5% (3/61)			Long-term residential
				Outcome: Alcohol use
	Study Population:			Measure: proportion of days used
	Youth			(count distribution), last 90 days
	Age: 15.4 mean (ST),			
	16.3 mean (LT), range:			Baseline
	13-18			Int (n=12): 22% (0.3)
	Grade level(s): 9 th or			Comp (n=12): 16% (0.3)
	10th			Follow-up (in months): 6
	Sex:			Int (n=10): NR
	Total intervention			Comp (n=11): NR
	(n=30) 47% female,			Absolute change: NR
	43% males, 10% non-			Relative change: NR
	binary			Narrative results: significant time
	ST - 50% female, 33%			effects = intervention adolescents
	males, 17% non-binary			experienced significant reductions
	LT - 42% female, 58%			regardless of condition;
	males			time*condition: RR: 0.39, b= -0.93,
	Race/ethnicity:			95%CI: 0.19-0.80, p=.01
	Total intervention			Favorable (Yes/No/No effect): Yes
	(<i>n=30</i>): 70% white,			Statistical significance: Yes

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	10% Black, 13%			
	multiracial, 10% prefer			Outcome: Cannabis use
	not to answer; 30%			Measure: proportion of days used
	Hispanic/Latinx			(count distribution), last 90 days
	ST - 78% white, 11%			
	Black, 17% multiracial,			Baseline
	11.1% prefer not to			Int (n=12): 65% (0.3)
	answer; 28%			Comp (n=12): 63% (0.4)
	Hispanic/Latinx			Follow-up (in months): 6
	<i>LT</i> - 58% white, 17%			Int (n=10): NR
	Black, 8.3%			Comp (n=11): NR
	multiracial, 8.3%			Absolute change: NR
	prefer not to answer;			Relative change: NR
	33% Hispanic/Latinx			Narrative results: No significant time
				or time*condition interactions (b=
	Other (years of			0.15, p=0.67 RR= 1.16, 95%CI= 0.58
	education)			- 2.32)
	9.0 mean (ST), 9.9			Favorable (Yes/No/No effect): No/No
	mean (LT),			effect
				Statistical significance: No
	Community			
	characteristics NR			Outcome: Any substance use
				Measure: proportion of days used
				(count distribution), last 90 days
				Baseline
				Int (n=12): 79% (0.2)
				Comp (n=12): 67% (0.4)
				Follow-up (in months): 6
				Int (n=10): NR
				Comp (n=11): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: Significant time
				effects = intervention adolescents

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				experienced significant reductions
				regardless of condition
				(RR: 0.61, 95%CI: 0.44-0.86,
				p=.005). time*condition: b=0.36,
				p=0.11, RR=1.44, 95%CI= 0.93 - 2.23
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes
				Outcome: SU disorder (substance-
				related problems; Table 1)
				Measure: scale, past month
				Baseline
				Int (n=12): 2.75 (2.05)
				Comp (n=12): 2.42 (1.88)
				Follow-up (in months): 6
				Int (n=10): NR
				Comp (n=11): NR
				Absolute change: NR
				Relative change: NR Narrative results: no significant time
				or time*condition interactions (b=
				-0.07, p=0.79, RR=0.27, 95%CI= -
				0.60 - 0.46
				Favorable (Yes/No/No effect): No/No
				effect
				Statistical significance: No
				Outcome: Educational outcomes
				(school related problems)
				Measure: scale, past 30 days
				Baseline
				Int (n=12): 1.00 (1.41)
				Comp (n=12): 0.92 (1.24)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Follow-up (in months): 6 Int (n=10): NR Comp (n=11): NR Absolute change: NR Relative change: NR Narrative results: no significant time or time*condition interactions (b=0.07, p=0.67, RR=0.17, 95%CI =- 0.25 - 0.39)
				Favorable (Yes/No/No effect): No/No effect Statistical significance: No
				Pooled full sample analysis (Table 3): no significant time*condition interactions for any variable. All time effects had negative coefficients and several had p-values < .10, evidence that days of substance use and substance-related problems generally declined over time, regardless of treatment condition
				Time effect (use decreasing over time) significant for days of cannabis use (b= -0.14, RR: 0.87, 95% CI: 0.77- 0.98, p= .03), and days of "Any substance" use (b= -0.17 , RR: 0.84, 95%CI: 0.76- 0.94, p=.002).
				time*condition interaction, while not significant for any variable, had negative coefficients for proportion days used alcohol ($b = -0.11$, RR =0.89, P=0.49) substance-related

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				problems (b= $-$ 0.13, RR=0.13, p=0.34), and school-related problems (b= $-$ 0.14, RR=0.10, p=0.19)
Author (Year): Brody	Setting: Community;	Brief description of	Brief description:	Intervention and control groups are
et al. (2010)	intervention conducted	interventions and content:	All families finishing pretest,	comparable at county and family level.
	in community facilities	Program content can be found in	posttest, and long-term follow-	One factor, youths' reports of negative
Related paper: Brody et		Figure 1	up included in analysis,	attitudes towards alcohol, was higher
al. (2006)	Urbanicity: Rural	Program adapted to Black	including 24 primary caregivers	in control group than in prevention
		community by creating	and 22 youths who didn't	group; this was controlled for in later
Location: USA, Georgia	Eligibility:	appropriate materials through	attend any prevention sessions	analysis.
(9 rural counties; 2	African American	research	but finished all 3 assessments	
small and contiguous	primary caregivers who			Each outcome below included as a
counties with similar	were living in one of	SAAF program implemented	Substance(s)*	measure "Intervention-targeted youth
income and percent of	the 9 selected counties	regulated communicative	Alcohol	protective factors" which has four
African American	in Georgia and had an	parenting to enhance youths'		variables: future-oriented goals,
residents)	11-year-old attending	development of proximal	Polysubstance measures?	resistance efficacy, negative images of
	local school	protective processes.	No	drinkers, and negative attitudes toward
Years for Study:				alcohol use.
Started in February	Recruitment:	Parents taught involved-vigilant	Outcome types	
2002; intervention	All schools within the 8	methods (consistent use of	Intentions? No	Outcome: Alcohol use initiation
lasted 29 months.	county units provided	nurturant-involved parenting	Initiation? Yes	Measure: new user proportions, using z
Last follow-up	lists of 11-year-old	practices; high levels of	Use? Yes	tests
5.4 years after pretest,	African American	monitoring/control; adaptive	SU disorder? No	Baseline (Pretest)
June 2007.	students	racial socialization strategies; sex		Int (n=181): NR
		communication strategies, and	Morbidity? No	Comp (n=149): NR
Period for Study:	521 families contacted	establishment of clear	Mortality? No	Follow-up:
Brody et al. (2006): 29	and 332 families	expectations about alcohol use.	Equity? Yes	Posttest: 8 months
months	completed pretest		Other outcomes?	Longest follow up: 29 months
Brody et al. (2010): 65		Children learned adaptive	Mediators	Int (n=172): M = .19
months	Similar refusal rates	behaviors when encountering	· · · · · · · · · ·	Comp (n=133): M = .29
(intervention + f/u	across intervention and	racism, similarities and	Mediating effect of	Z = 2.16, p < .05
months)	control counties	differences between themselves	intervention-induced changes	Absolute change: NR
		and their age-mates who use	in youth protective factors on	Relative change: NR
Study Design:		alcohol, prevalence of	alcohol use from pre to	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Group RCT	University staff	alcohol/other substance use	posttest; factors included	Narrative results: At both f/u periods,
	member administered	data, resistance strategies,	future-oriented goals,	new user proportions (proportions of
CG Suitability:	pretest assessment in	forming future goals and plans to		adolescents reporting initiating alcohol
Greatest	family's home.	attain them, having/abiding	images of drinkers, and	use since pretesting) were significantly
		household rules.	negative attitudes toward	lower among SAAF adolescents when
Risk of Bias	paid \$100 at each		alcohol use	compared with control group
Assessment (Brody	assessment.	Intervention/program name:		Favorable: Yes
et al., 2010)		Strong African American Families		Statistically significance: significant;
a) Randomization –	Inclusion/Exclusion:	Program (SAAF)		p<0.05
Unclear	willingness to			
b) Concealment –	participate, informed	Substance(s) focused*		Outcome: Alcohol use.
Unclear	consent	Alcohol		Measure: Alcohol composite index, 3
c) Blinding – High				items, ever consumed an entire
d) Outcomes – Low	Sample size: 330	Format: face-to-face group		alcoholic drink in lifetime; consumed
e) Selective – Low	families in 8 county	sessions, with videotapes, role-		an entire alcoholic drink in past 30
	units	playing, discussion, and other		days; ever had 3 or more alcoholic
	Baseline	activities		drinks at one time (binge drinking);
	Intervention: 181			responses scored 1 (affirmative) and 0
	enrolled but only 157	Separate, concurrent training		(negative) and summed, a scale of 0 to
	received intervention, 4	sessions for parents and children,		3)
	county units	followed by joint parent-child		Latent growth models used (for
	Control: 149 enrolled,	session where families practiced		intervention effects and rate of growth)
	4 count units	skills they learned in separate		
		sessions.		Baseline (Pretest)
	Follow-up			Int (n=181): NR
	92% completed	Intervention intensity:		Comp (n=149): NR
	pretest, posttest, long-	Number of sessions or modules:		
	term follow-up	7 consecutive weekly meetings		Follow-up: 29 months
		Number of hours per session: 1		Int (n=172):
	Loss to f/u	Total hours of intervention: 21; 7		Comp (n=133):
	Overall: 25/330=7.6%	for parents, 7 for youth, and 7		Absolute change: NR
	Intervention:	for families		
	9/181=5.0%			Absolute change: NR
	Control:	Implementer(s)		Relative change: -17.4%;
	16/149=10.7%			intervention participants experienced

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		Trained community members, all		17.4% less growth in alcohol use for
	Study population:	African Americans		each unit increase to control group
	Parents and			Narrative results: Assignment to
	Caregivers	Sessions led by AA group		intervention associated w/ significantly
- · · · · · · · · · · · · · · · · · ·	Age:	leaders. 10 teams, each including		slower rate (β = -0.18, p<.05) of
	Mothers: 38.1 mean	3 people, minimum high school		increase in alcohol use across the 29
	years; fathers: 39.4	graduation, African American,		months between the pretest and long-
	mean years	underwent 3 training sessions		term f/u
	Sex: NR	over 4 days		Results are the same when controlled
	Race/ethnicity: African			for pretest levels of alcohol use,
	American families	Interview completed by pre-		gender, and primary caregivers'
	Education: 78.7% of	trained (~27 hours of training)		educational attainment
	mothers completed	African American students and		
	high school	community members.		Follow-up: 65 months after pretest
	Employment: primary			Relative change: this is post only
	caregivers work an	Intervention duration: 7		Intervention: 0.68 times a person
	average of 39.4 hours	weeks		drank in past month
	per week			Control: 1.41 times a person drank in
	Income: median	Posttest: ~3 months after		past month
	household income =	prevention programming end		Absolute change: NR
	\$1,655 per month;			Relative change: -51.8% in drinking
- · · · · · · · · · · · · · · · · · ·	46.3% of participants	Focus of intervention		Narrative results: Assignment to
	were living below	activities:		SAAF condition associated with
	federal poverty	Both parents/caregivers and		significantly slower rate ($\beta =23$,
	standards,	youth: Yes		p<.05) of increase in alcohol use
	50.4% were living	Parents only: No		across the 65 months between the
	within 150% of the			pretest and the last assessment
	poverty threshold	Parent and child (either in the		Favorable: yes
	Marital status, mother:	same session or not)? Yes		Statistical significance: significant;
	Single: 33.1%	Parent and child in the same		p<0.05
	Married (living	session/activity? Yes		
	w/husbands): 23.0%			Outcome: Mediational effects of
	Married (separated):	Comparison group:		intervention-induced changes in youth
	33.9%	Control families received 3		protective factors on alcohol use
		leaflets via postal mail, with		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Living with partners and not married: 7.0% Other Family structure: among 2-parent households, 93.0% had both biological parents Study Population: Youth Age: 11 (at pretest), 13.5 (at study end) Grade level(s): NR Sex: 53.6% female Race/ethnicity: African American Education: NR Income: NR Other NR Community characteristics: poverty rates among highest, unemployment rates above national average	topics including stress management, early adolescence development, and suggestions for encouraging children to exercise.		Measure: mediating effect examined using structural equation modeling (SEM) with latent variables Consistent with the developmental mediational hypothesis, changes in youth alcohol use from the pretest to the long-term follow-up were mediated through SAAF's enhancement of youth protective processes from pretest to posttest
Author (Year): Brody et al. (2012) Related paper: Chen et al. (2017)	Setting: Communities; sessions held in community facilities Urbanicity: Rural	Brief description of interventions and content: Intervention goal to deter substance use; conduct problems; depressive symptoms	Brief description: Self-report Chen et al. 2017 data: Cotinine (smoking) data from	Intent-to-treat analysis Analysis methods: Zero-Inflated Poisson (ZIP) regression model. All models controlled for socioeconomic
Location: Georgia, location not specified	Eligibility: Families in rural Georgia with a 16 year	Parents: protective parenting processes training (setting limits,	blood samples when youth 20 years. Budgetary constraints reduced sample size	risk, adolescent gender, and pretest levels of the outcome being examined.

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Years for Study: NR	old at recruitment	strategies for dealing with	Cotinine = half-life of ~ 15 to	Measure: Composite score with
	(based on data from	discrimination and increasing	40 hours, assess recent	alcohol, cigarette, and marijuana use
Period for Study: 22	primary caregiver)	racial pride, supporting academic	smoking. Quantitative measure	within past 3 months
months		achievement etc.)	more reliable than counting	Alcohol: on a scale from 0 (none) to 6
	Recruitment:		number of cigarettes smoked	(30 or more times), how often
Study Design: Group	Schools in 6 counties	Children: self-regulatory skills	per day.	adolescents consumed a drink of
RCT	provided list of 10th	(following household rules,		alcohol or 3 or more drinks at one time
	grade students and	academic success; goal	Substance(s)*	during the past 3 months
CG Suitability:	participants randomly	formation etc.)	Alcohol, cigarettes, and	Marijuana: on a scale from 0 (none) to
Greatest	chosen. Received \$100		marijuana	6 (30 or more times), how often they
	at each assessment	Separate skill-building curricula		smoked marijuana during the past 3
Risk of Bias		for caregivers, adolescents, and	Polysubstance measures?	months
Assessment	Inclusion/Exclusion:	family	Yes	Cigarettes: on a scale from 0 (none) to
a) Randomization –	NR		Combined alcohol, cigarettes,	6 (about 2 packs/day), how often/how
Unclear		Intervention/program name:	and marijuana	many? smoked cigarettes in past 3
b) Concealment –	Sample size:	Strong African American		months
Unclear	Baseline: 502 families	Families-Teen (SAAF-T)	Outcome types	
c) Blinding – High	Intervention: 252	Same intervention as Brody et al.	Intentions? No	Baseline
d) Outcomes – Low	families	2006 and Brody et al. 2010	Initiation? No	Int (n=): M = 0.74; SD = 1.67
e) Selective – Unclear	Control: 250 families		Use? Yes	Follow-up: authors only reported from
	Follow-up	Substance(s) focused*	SU disorder? Yes	pretest to longest follow-up; 22
	Intervention: 237	Alcohol, cigarettes, and	Educational outcomes (test	months
	families provided data	marijuana	score; attainment; grade	Absolute change: NR
	at 22 months follow-up		retention; disciplinary actions;	Relative change: Author translated
	Control: 241 families	Format: face-to-face group	etc.)? No	coefficient to relative change
	Loss to f/u	sessions	Mental health (depressive	-32% in substance use (100*[1 – e-
	Intervention: 1 –		symptoms; anxiety; etc.) Yes	0.637])
	(237/252) = 6.0%	Intervention intensity:	Morbidity?	Narrative results: Participants in
	Control: 1 – (241/250)	consecutive meetings	Mortality?	intervention had less frequent
	= 3.6%	Number of sessions or modules:	Equity (stratified analysis;	substance use
	No demographic	5	focused on one historically	Favorable (Yes/No/No effect): Yes
	differences between	Number of hours per session: 1-	disadvantaged group)?	Statistical significance: P<0.001
	families who stayed	hour concurrent sessions for		
	and families lost to	caregivers and adolescents	Other outcomes?	Outcome: Substance use problems
	follow-up	followed by 1-hour family session	Conduct problems,	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study	-	Characteristics where caregivers and adolescents practiced what they learned in the previous hour Total hours of intervention: 15; 5 for caregivers; 5 for students; 5 for families Implementer(s) Authors stated black intervention leaders were trained to deliver the intervention and control content Intervention duration: 5 weeks Focus of intervention activities: Both parents/caregivers and youth: Yes	Outcomes incarceration rates	ResultsMeasure: Only adolescents who were using substances at baseline included in analysisNumber of times during the past 12 months used substances in hazardous situations; failed to fulfill role obligations because of substance use; experienced legal, social, or interpersonal problems because of substance use; ranging from 0 (none) to 6 (11 or more) Used 10-item Minnesota Survey of Substance Use ProblemsBaseline Int (n=NR): M = 0.52; SD = 1.80 Follow-up: 22 monthsAbsolute change: NR Relative change: Author translated coefficient to relative change -47% in substance use problems $(100*[1 - e-0.442])$ Narrative results: participants in intervention had fewer substance use problemsFavorable (Yes/No/No effect): Yes Statistical significance: P<0.001
		prevention program designed to promote good nutrition, exercise, and informed consumer behavior among adolescents		months adolescents self-reported to have fought, stolen, been truant from school, or been suspended from school 14 question survey; score summed

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		Program: adapted school-based FUEL program into Fuel for Families (FF) program.		Baseline Int (n=NR): M = 6.16, SD = 13.27 Absolute change: NR Relative change: author translated coefficient to relative change -36% (100*[1-e-0.442]) in frequency of conduct problems Narrative results: participants in intervention had fewer conduct problems Favorable (Yes/No/No effect): Yes Statistical significance: P<0.001 Outcome: Mental health, adolescent depressive symptoms Measure: self-reported depressive symptoms during the previous week; ranging from 0 (rarely or none of the time, less than 1 day) to 3 (most of the time, 6-7 days) 20-item Center for Epidemiologic Studies Depression Scale; validated Baseline Int (n=NR): M = 13.80; SD = 8.69 Absolute change: Author translated coefficient to relative change -4.5% in depressive symptoms Narrative results: Participants in intervention had fewer depressive symptoms Favorable (Yes/No/No effect): Yes Statistical significance: P<0.01

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Chen et al. 2017 data: No differences at baseline between those providing cotinine data and those who did not. Intent-to-treat analysis.
				Outcome: Cotinine levels (smoking) at youth age 20 Measure: mean nanograms per milliliter of serum, ng/mL
				Baseline Int (n=369): NR Comp (n=298): NR Follow-up (in months): 108 Int (n=257): M = 0.672, SD = 0.048 Comp (n=167): M = 0.824, SD = 0.059 Absolute change: -0.15 pts Relative change: -18.45% pts Narrative results : Intervention program significantly lower cotinine levels than control, F (1,416) =4.013, Cohen's d = -0.200 . Favorable (Yes/No/No effect): Yes Statistical significance: Yes, p = .046
Author (Year): Chaplin et al. (2021)	'	Brief description of interventions and content: Mindfulness intervention for	Brief description: Polysubstance: adolescent reported (+urinalysis) 11	ITT main analysis, 'per protocol' secondary analyses with mothers who attended at least 50% of intervention
Location: USA, mid- Atlantic		parents Parent only:	substances, summed scores for YRBS 2011; lifetime SU frequency variable (combo of	sessions
Years for Study: 2014-2015/2016	nation-wide studies): Suburban	formal (meditation or gentle yoga) and informal mindfulness (present focus while eating) practices, parenting, parenting	days used/substance & number of substances used). For each substance,	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Period for Study:14	Eligibility: Primary	interactions homework (30 min	youth reported if they had	Intervention group differences: no
months (2 months	caregivers of 11–17	formal, 15-30 min informal)	never used it (scored a 0),	significant differences on demographic
intervention+	year olds who reported	mindfulness practice in, 6	used 1-2 days (scored 1), 3-9	variables, therapy status, or outcome
12-month f/u)	having moderate to	days/week.	days (scored 2), 10–19 days	variables at pre-intervention.
	elevated stress	Parent + Adolescents:	(scored 3), 20-39 days (scored	Follow-up: significant effects of group
Study Design:		meditation and practiced	4), or 40 or more days (scored	on slope of SU/symptoms = proportion
Individual RCT	Recruitment:	present-focused awareness	5).	of variance in slope explained by
	Fliers	during parent-adolescent		group. f^2 effect size (small=0.02,
CG Suitability:	posted/distributed at	discussion	Internalizing Symptoms:	medium= 0.15 , and large= 0.35).
Greatest	two community		Adolescent-reported (Int Sx	
	behavioral health	PM did not include explicit parent		ANCOVAs examining intervention
Risk of Bias	services providers,	training beyond practicing	depressive and current anxiety	group effects on SU/ symptoms at
Assessment (ROB2)	mailings to households	present-focused awareness and	symptoms; z-scored summed	each time-point, covarying pre-
a) Randomization -	with 11–16 year old	reflecting on parents' own	scales composite of the CSI	intervention SU/symptoms. Cohen's d
Some	children in local county.	parenting values.	Major Depressive Disorder	effect sizes = small (0.20), medium
b) Deviations –	Recruitment materials		subscale and Generalized	(0.50), and large (0.80) .
Some/Low	targeted parents with	Intervention/program name:	Anxiety Disorder subscale.	(0.50), and large (0.80).
c) Missing data- Low	high stress.	Parenting Mindfully [PM]		HLMs predicted change in outcome
d) Outcome			Externalizing Symptoms:	variables over time. Intervention group
measurement – Low	Inclusion	Substance(s) focused*	Mother-reported (Ext. Sx	(PM = 1 vs. PE = 0) and covariates
e) Selective – Low	Screened by phone for	General	(MR)): composite z-scored	(Adolescent Age and Therapy Status =
	inclusion criteria:		summed scales - on adolescent	0/1) effects on intercept and slope.
Overall bias: Some	adolescent between	Format: face-to-face group	defiant/conduct disorders,	
concerns	11–17 years old,	sessions (10-16 parents per	delinquency, antisocial, &	Outcome: Substance Use
	adequate English	group)	current clinical psychological	(Polysubstance)
	proficiency to complete		symptoms	Measure: scale, frequency lifetime SU
	questionnaires, and	Intervention intensity: 1		by number of days
	elevated mother stress	session each week	Externalizing Symptoms:	
	levels (mean score of	Number of sessions or modules:	Adolescent-reported (Ext Sx	Baseline
	at least 3 [on a 1–5	8	(AR))do y: composite z-scored	Int (n=48): 1.87 (4.33)
	scale] for two	Number of hours per session: 2	summed scales -	Comp (n=48): 1.92 (4.09)
		Total hours of intervention: 16	defiant/conduct disorders &	Follow-up (in months): 12
	perceived stress and		current symptoms of clinical	Int $(n=42)$: 2.04 (5.49)
		Additional components (things	diagnoses	Comp $(n=40)$: 2.51 (4.33)
		outside the sessions/modules):		Absolute change: -0.42 pts
	often have you felt		Substance(s)*	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	stressed?" and "In the	homework (30 min formal, 15-	11 substances (e.g., alcohol,	Relative change: -16.12% pts
	last month, how often	30 min informal) mindfulness	marijuana, cocaine, inhalants)	Narrative results: covarying
	have you felt stressed	practice 6 days/week.		preintervention SU trend, intervention
	by parenting your		Polysubstance measures? Yes	group difference = medium effect size,
	teenager or worried	Implementer(s)		F[1,73] = 3.57, p = 0.06. d = -0.43,
	about your	PM Groups co-led by study co-	Outcome types	PM youth lower SU than PE youth.
	teenager?").	Investigator (co-I) and one	Intentions? NO	Intervention effects on lower SU
		doctoral student in clinical	Initiation? NO	stronger results at 12-month f/u than
	Exclusion: Families in	psychology or by two doctoral	Use? YES	immediately post-intervention
	which the child was	students. Leaders received 16	SU disorder? NO	
	diagnosed with an	hours of training and weekly	Educational outcomes (test	Using untransformed SU scores,
	intellectual disability or	supervision by study co-I or PI	score; attainment; grade	estimated marginal mean SU scores
	psychotic disorder		retention; disciplinary actions;	were $1.72 (SE = 0.45)$ for PM and 2.83
		Intervention duration:	etc.)? NO	(SE = 0.45) for PE $(1 = 1-2 days, 2 = 1-2 days)$
	Sample size:	8 weeks	Mental health (depressive	3-9 days, and $3 = 10-19$ days in
	Baseline 96		symptoms; anxiety; etc.)? YES	lifetime SU).
	Int 48	Focus of intervention	(Adolescent Internalizing	Favorable (Yes/No/No effect): Yes,
	Control 48	activities:	Symptoms),	Statistical significance: Yes $p = 0.06$
		Both parents/caregivers and	Morbidity? NO	(Note: paper used 0.10 for significant)
	Follow-up (1-year)	youth: Yes	Mortality? NO	
	85% (82)	Parents only: No	Equity (stratified analysis;	Over time analysis
	Int 43/48		focused on one historically	Table 2 (HLM)- intervention had a
	Control 40/48	Parent and child (either in the	disadvantaged group)? NO	growth rate 0.02 units lower than
		same session or not)? Yes		control. Intervention SU remained
	Loss to f/u (1-year)	Parent and child in the same	Other outcomes?	same but grew in control. Significant
	15%	session/activity? Yes	Externalizing Symptoms AR &	effect of intervention group on slope of
	Int 5/48		MR (clinical psychological	adolescent SU ($b = -0.02$, $SE = 0.01$,
	Control 8/48	Comparison group:	symptoms of conduct/antisocial	t[92] = -2.27, p = 0.03; small effect
		parent education [PE] control	disorders)	size $f^2 = 0.07$
	Study population:	group, met 3 times for 30 min		
	Parents and	each time (fewer sessions than	Mother-report Internalizing	Fig. 2 trend for intervention group
	Caregivers (Total)	PM).	Symptoms, Mother	difference, covarying preintervention
	Age: 47.23 mean		Mindfulness, Mother-	SU, a medium effect size, $F[1,73] =$
	Sex: 100% female	Each meeting, group leader	Adolescent Relationship Quality	3.57, <i>p</i> = 0.06. <i>d</i> = -0.43).
	Race/ethnicity:	(trained, clinical psychology		Intervention lower SU than control
		doctoral student) handed out		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Education: 90% college	informational packet, provided a		Outcome: Int Sx (AR) -
	graduate	power-point presentation, and		(Internalizing Symptoms
	Employment	answered parent questions.		Adolescent- reported)
	Income: 64% Income			Measure: scale, z-scored and summed
	>100k	Content: 1. Adolescent physical		into composite score, mean
	Marital status: 78%	and social development, 2.		
	married	Changes in family and peer		Baseline
	Other:	relations in adolescence, and 3.		Int (n=48): 0.09 (1.79)
	94% biological	Adolescent risk behaviors		Comp (n=48): -0.08 (1.99)
	mothers, 4% adoptive			Follow-up (in months): 12
	mothers, 2%			Int (n=42): -0.002 (1.74)
	grandmothers			Comp (n=40): 0.002 (2.03)
				Absolute change: -0.17
	Study Population:			Relative change: -11.1%
	Youth (Total)			Narrative results: HLM analysis did
	Age: 13.98 mean			not find a significant effect of
	(Range: 11-17)			intervention group on growth
	Grade level(s):			Favorable (Yes/No/No effect): Absolute
	Sex: 51% male, 49%			favorable
	female			Statistical significance: No
	Race/ethnicity:			
	64.6% Non-Hispanic			Secondary analyses (Adolescent
	White,			Reported):
	9.4% Hispanic White,			Substance Use
	11.5% more than one			PM did not prevent adolescent
	race (e.g., Black and			substance use.
	White),			SU increased in control more than
	5.2% Other Race,			intervention adolescents. But, effect of
	4.2% Asian (with 1			intervention group on slope of
	Asian Hispanic),			adolescent SU no longer significant (b
	4.2% Black,			= -0.01, SE = 0.01, t[44] = -0.60, p =
	1.0% Native American			.55). Effect size remained "small," (fell
	Hispanic			from $f^2 = .07$ (small) to $f^2 = .02$
				(small).
	Community			
	characteristics: local			Internalizing Symptoms

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	community similar to adolescent race composition			HLM analysis did not find a significant effect of intervention group on growth in mother- or adolescent-reported internalizing symptoms (see Table 2).
				<i>Externalizing</i> mother reported items (significant effects) but not on youth reported.
				Sex Interactions Intervention X adolescent sex interaction effects on growth in SU and symptoms not significant and so moderation by sex not supported.
Author (Year):	Setting: Universal:	Brief description of	Brief description:	Outcome: Tobacco use
Connell et al. (2007)	school (3 middle	interventions and content:	In the spring semester, from	Measure: self-reported frequency of
Connell et al. (2006)	schools)	Adolescent Transition Program	6th to 9th grade, and again in	smoking in the previous 30 days
	Selective: home and	(ATP): assigned in 6th grade,	11th grade, students were	Follow-up duration: intervention period
Related papers:	school	adaptive, multi-level intervention	surveyed using a validated	was 2 years, followed up to age 17,
Véronneau et al. (2016)	Indicated: home or	designed for delivery in public	instrument	assuming 4 years between intervention
Kuo et al. (2019)	community	schools		ending to assessment
			Students were followed to their	Narrative results:
Connell et al., 2007:	Urbanicity: Urban	Universal, selected, and indicated		ITT, using overall sample: no
TOT analysis reported		family interventions, titrating to	of their original schools	difference between treatment and
results using only the	Eligibility: families of	the needs and motivation of		control group
portion of intervention	high-risk youth offered	family	Substance(s)*	As treated (AT): within the engagers
group who actively	intervention each year		Alcohol, tobacco, or marijuana	class, family participation in the FCU
participated; authors	of study if they were	Universal: established a Family		inhibited growth in tobacco use from
selected comparable	assigned randomly to	Resource Center (FRC); support	Polysubstance measures?	ages 12 to 17 years
families from the	the intervention group	positive parenting practices;	No	Favorable (Yes/No/No effect): Yes
control group for their		feedback to parents on their		Statistical significance: p<0.5
analysis	Recruitment: All	children's behavior at school;	Outcome types	
	parents with children in	engage parents of high-risk	Intentions? NO	Outcome: Alcohol use
	6th grade at the 3	youth for the selected	Initiation? NO	Measure: Self-reported frequency of
	participating schools	intervention; can enter selective	Use? YES	alcohol use in the previous 30 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Only the selective	were contacted and	intervention after a year of the	SU disorder? YES	Follow-up duration: assuming 4 years
intervention was	90% consented to	universal intervention	Educational outcomes? NO	Narrative results: ITT, using overall
evaluated	participate		Mental health? NO	sample: no difference between
		Selective, Family Check-Up	Morbidity? NO	treatment and control group
All numbers and study	Inclusion/Exclusion:	(FCU): motivational interviewing	Mortality? NO	
descriptions from	sixth grade students	Families of high-risk youths,	Equity? YES	As treated (AT): within the engagers
Connell et al. 2007	from 3 middle schools	determined by teacher ratings,		class, family participation in the FCU
	in an ethnically diverse	specifically offered FCU in 7th	Other outcomes? Yes	inhibited growth in alcohol use from
Location:	metropolitan	and 8th grades	Antisocial behavior	ages 12 to 17 years
Northwestern US	community in	3 sessions: an initial interview,		Favorable (Yes/No/No effect): Yes
	northwestern US	video recorded family	Subset analyses of intervention	Statistical significance: p<0.5
Years for Study: NR		assessment, and a feedback	effects on AD-GPS genotype	
_	Sample size:	session to explore potential	and alcohol dependence for	Outcome: Marijuana use
Period for Study: 10-	Baseline: 998	indicated interventions	two groups (European-	Measure: Self-reported frequency of
year follow-up from	Intervention: 500		American and African-American	marijuana use in the previous 30 days
baseline (Veronneau et	Control: 498	Indicated, Family management	participants)	Follow-up duration: assuming 4 years
al., 2016)		treatment: Services could be	(Kuo 2019)	Narrative results: ITT, using overall
	Follow-up	behaviorally oriented parent		sample: no difference between
Study Design: RCT	Approximately 80% of	group intervention, individually	Subset: European American	treatment and control group
	youth were retained	based behavior family therapy,	Finding: Intervention	As treated (AT): within the engagers
CG Suitability:	across the study span	and multisystemic family	moderated the association	class, family participation in the FCU
Greatest	(Veronneau 2016)	therapy; few families chose to do	between alcohol dependence	inhibited growth in marijuana use from
	age 13, n = 857	these more involved	polygenic scores and lifetime	ages 12 to 17 years
Risk of Bias	age 14, n = 829	interventions	alcohol dependence	Favorable (Yes/No/No effect): Yes
Assessment	age 15, n = 820		diagnosis in young adulthood.	Statistical significance: p<0.5
a) Randomization –	age 17, n = 794	Intervention/program name:		
Unclear	age 19, n = 735	Selective, Family Check-Up (FCU)	Subset: African-American	Outcome: Problem behavior
b) Concealment –	age 22, n = 818	NR for others	Finding: For intervention	Measure: engagement in problem
Unclear	age 23, n = 839		participants there was no	behavior measured averaging across
c) Blinding – Low		Substance(s) focused*	association between AD-GPS	six items; # of times in previous 30
d) Outcomes – Low	Loss to f/u:	General (Smoking)	and alcohol dependence	days teens reported having engaged in
e) Selective – Low	by age 18-19	Substance (Alcohol, tobacco, or	diagnosis.	following behaviors: lying to parents;
	Intervention: 106/500	marijuana)	Among African American	skipping school; staying out all night
	= 21.2%		participants, there was no	without permission; stealing;
		Format:	evidence of AD-GPS by	panhandling; carrying a weapon

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Control: 99/498 =	Universal: Face-to-face and	intervention status on alcohol	6-point scale: 1, never; 6, more than
	19.9%	remote	dependence	20 times
		Telephone consultations for	diagnosis.	Follow-up duration: assuming 4 years
	Study population:	parents; access to videos and		Narrative results: Within the
	Parents and	books	Mediators:	engagers class, family participation in
	Caregivers		Deviant peer affiliation:	the FCU reduced the risk for problem
	Age: NR	6 in-class lessons for students;	whether students spent time in	behaviors from ages 12 to 17 years;
	Sex: NR	life skills lessons to deal with	past week with peers who had	p<0.5
	Race/ethnicity: NR	stress and conflicts	discipline issues; reported in	Favorable (Yes/No/No effect): Yes
	Education: NR	Brief parent-student activities	6th grade	Statistical significance: p<0.5
	Income: NR	designed to motivate family		
	Other	management	Parental monitoring: measured	Outcome: Total number of arrests
	Single parent		across 5 items to determine if	Measure: court records; arrest was
	household: 58.6% with	Selective: face-to-face and	parents are aware of their	defined as a police contact for problem
	father present; 41.4%	remote	children's activities etc.	behavior regardless of adjudication
	as single mother	Face-to-face interview		Follow-up duration: assuming 4 years
	household	Remote video		Narrative results: Throughout study,
		NR for follow-up discussion		31.3% of youths were arrested one or
	Study Population:			more times (range: 1–38 arrests)
	Youth	Indicated: NR		Author stated, but without data, the
	Age: 11 followed up to			intervention led to significant
	age 18-19	Intervention intensity:		reductions in the rate of arrest across
	Grade level(s):	Number of sessions or modules:		adolescence
	recruited at 6th grade,	Universal: 6 sessions		Favorable: Yes
	ended in 12th	Selective: 3 sessions		Statistical significance: stated as
	Sex: 472 (47.3%)	Indicated: NR		significant; no data
	female, 526 (52.7%)	Number of hours per session:		
	male	Universal: NR		Outcome: Substance use disorder
	Race/ethnicity: 42.3%	Selective: NR		diagnoses
	Caucasians; 29.1%	Indicated: NR		Measure: Composite International
	African American;	Total hours of intervention: NR		Diagnostic Interview (at 19 years)
	6.8% Latinos; 5.2%			Follow-up duration: assuming 4 years
	Asian American; 16.4%	Implementer(s)		Narrative results: Positive for lifetime
	with other, including	Services provided by Parent		diagnoses: 193 (24.3%) of alcohol
	biracial	Consultants; 2 master level		abuse or dependence, 76 (9.6%)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study	_		Outcomes	Resultsnicotine dependence or withdrawal, 181 (22.8%) cannabis abuse or dependenceITT, using overall sample: preliminary analyses indicated no significant differences found for any substance use abuse/dependence AT, using engagers: author stated, but
				Intervention vs control

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				As treated analysis based on engagement/nonengagement with Family Check-Up (selected) component Complier Average Causal Effect (CACE) analysis: identify the optimal comparison group from the control condition for observed treatment- compliers in the intervention condition 10-year (age 23) outcomes (Veronneau 2016) - Intention to treat analyses revealed that randomization to the FCU was associated with reduced growth in marijuana use (p < .05), but not alcohol and tobacco use As treated analyses (engaged with FCU) Engagement in the FCU services predicted reductions in alcohol, tobacco, and marijuana use by age 23.
				In comparing FCU engagers with nonengagers: 69.9% versus 94.7% showed signs of alcohol abuse or dependence, 27.6% versus 60.9% showed signs of tobacco dependence, 59.3% versus 84.4% showed signs of marijuana abuse or dependence.
Author (Year): Curry et al. (2003)	Setting: Mix (Health system + Home)	Brief description of interventions and content: Intervention was a 5-6 component intervention:	Brief description : Child surveys at 20-month f/u. (study used a subset cohort of 540 families who provided full	20-month survey (post-only comparison of tobacco use outcomes- baseline rates presumed to be very low)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Location: USA, Seattle	Interventions	Mailed parent information	surveys and assessments at	
Washington and	implemented by by 2	Mailed child information	baseline, 6m, 12m, 20m)	Outcome: Tobacco use
Portland Oregon	health maintenance	Health educator telephone		susceptibility (intentions)
	organizations for home	sessions (1+14m contact)	Substance(s)*	Measure: Child self-report survey
Years for Study: NR	use by patients'	Provider prompts for brief	Tobacco	
	families	primary care provider advice		Baseline
Period for Study: 20	Group Health	prompts	Polysubstance measures? No	Int (n=NR): NR
months	Cooperative in Seattle,	Access to website content		Comp (n=NR): NR
	WAKaiser Permanente	Parent newsletter	Outcome types	20-month follow-up
Study Design:	NW Division in		Intentions? Yes	Int (n=1749): 20.2%
Individual RCT	Portland,OR	Intervention/program name:	Initiation? Yes	Comp (n=1814): 19.9%
		Steering Clear Project	Use? Yes	Change in proportion: +0.3 pct pts
CG Suitability:	Urbanicity: NR		SU disorder? No	(95% CI NR) p=NR
Greatest	(Mixed)	Substance(s) focused*	Educational outcomes? No	Adjusted OR=1.01 p=0.95
		Tobacco	Morbidity? No	
	Eligibility/		Mortality? No	Outcome: Tobacco use
Risk of Bias	Recruitment:	Format: Printed materials,	Equity? No	experimentation (initiation)
Assessment	Families with child 10-	videos, and web content for		Measure: Child self-report survey
a) Randomization –	12 years old randomly	home use by parents and child	Other outcomes? Yes	
Unclear	identified through HMO		Parent-child discussions about	Baseline
b) Concealment-	records for recruitment	Telephone counseling calls x 2	tobacco use	Int (n=): NR
Unclear	and randomly assigned	delivered by a health educator		Comp (n=): NR
c) Blinding– High	to intervention or			20-month follow-up
d) Outcomes- High	control group as	Sessions or modules:		Int (n=1749): 13.6%
e) Selective- Low	participants	Printed guide with 12 chapters		Comp (n=1814): 12.1%
		2 videos to watch		Change in proportion: +1.5 pct pts
	Inclusion/Exclusion:	Two telephone counseling calls		(95% CI NR) p=NR
	Excluded families	Brief provider discussion		Adjusted OR=1.13 p=0.25
	planning on disenrolling	Access to website content		
	HMO within 6m	Newsletter for parents at 14m		Outcome: Tobacco use
				Measure: Child self-report any 30-day
	Sample size: Children	Implementer(s)		use
	Bsline:	Health educators for telephone		
	Inter: 2016	counseling calls		Baseline
	Cont: 1998			Int (n=): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Follow-up	Clinic chart prompts to Primary		Comp (n=): NR
	Inter: 1749	care provider for brief provider		20-month follow-up
	Cont:1814	advice		Int (n=1749):2.4%
	Loss to f/u: 10.5% for			Comp (n=1814): 2.3%
	child responses	Intervention duration:		Change in proportion: +0.1 pct pts
		Parent and child materials at		(95% CI NR) p=NR
	Study population:	start of intervention		Adjusted OR=1.06 p=0.80
	Parents and	Telephone contact		
	Caregivers			Effect modification analyses for child
	Intervention group	Telephone contact at 14m		gender, child age, assessment or
	Age: mean 41.2 years	Website access at 14m		regular follow-up cohort, site, if index
	Sex: female 72%	Newsletter at 14m		parent smokes, and if there are any
	male:28%			adult smokers in the household
	Race/ethnicity:	Additional components as		indicated no variation in treatment
	White-non Hispanic 84%	described above		effect by subgroup on any of the three primary outcome measures
	Education: Some post-	Focus of intervention		
	HS 77%	activities:		
	Income: Household	Both parents/caregivers and		
	income greater than	youth: Yes		
	\$45,000 68%	Parents only: No		
	Other: Single-parent			
	household 10%	Comparison group: No		
	Employed full or part	additional interventions		
	80%	(considered usual care)		
	Study Population:			
	Youth			
	Age: 10-12 at baseline			
	11-14 at 20-m f/u			
	Grade level(s): NR			
	Sex: NR			
	Race/ethnicity: NR			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Community characteristics: NR			
Author (Year): DeGarmo et al. (2009)	Setting: School Urbanicity: NR (Small	Brief description of intervention and content: Intervention is a multimodal	Brief description Youth self-reported substance use guestionnaires (annual	Substance Use Initiation Model These effects translated to odds ratios of a 10%, 7%, and 9% reduction in
Location: USA, Lane County, Oregon	metro area-Mixed)	universal prevention program Parent management training	grades 5 through 12)	risk, respectively, for tobacco use, alcohol use and illicit drug use for the
Years for Study: Recruitment 1991-1993	Eligibility/ Recruitment: 12 elementary schools	Child social and problem-solving skills training and school recess intervention	Substance(s)* Tobacco Alcohol	LIFT intervention youth relative to the controls
End of study: NR	in neighborhoods with higher than median	Teacher-Parent communication	Illicit drugs	Outcome: Tobacco use initiation Measure: Survival analysis of initiation
Period for Study: 7 years (Grade 5 to Grade 12)	number of police contacts were randomly selected for recruitment and	Intervention/program name: Linking the Interests of Teachers and Families (LIFT)	Polysubstance measures? No Simple frequency count of: Any tobacco use,	Baseline Int (n=NR): NR Comp (n=NR): NR Up to 7-year follow-up
Study Design: Group RCT	randomized to condition LIFT: 6 schools	Substance(s) focused* General behavior skills	Any alcohol use Any illicit drug use (e.g., marijuana, amphetamines,	Int (n=NR): NR Comp (n=NR): NR Relative change estimate: -10%
CG Suitability: Greatest	Services as usual: 6 schools 88% of families agreed	Format: Group delivered (10-15 parents and caregivers) parent management training	heroine, cocaine) Frequency scale	Narrative: Controlling for parental drinking and deviant peer association, the intervention was associated with
Risk of Bias Assessment a) Randomization –Low	to participate (671 of 762)	delivered at school. Content was designed to improve parent skills in consistent and effective	"1" (once or twice), "2" (once every 2 to 3 months),	reduced risk in initiation of tobacco use β =-0.10, p<.01)
b) Concealment –Low c) Blinding –High d) Outcomes– Low	Study subset of schools delivered intervention to 5th grade classes	positive reinforcement, discipline, and monitoring Sessions or modules:	"3" (once a month), "4" (every 2 to 3 weeks), "5" (once a week),	Outcome: Alcohol use initiation Measure: Survival analysis initiation Baseline
e) Selective -Low	(the focus of this study) LIFT: 3 schools	Parents: Weekly x 6 weeks Children: 10 weeks	"6" (2 to 3 times a week), "7" (once a day), and "8" (2 to 3 times a day or	Int (n=NR): NR Comp (n=NR): NR Up to 7-year follow-up
	Services as usual: 3 schools	Implementer(s): Parents: Trained research staff Children: Trained teachers	more). Outcome types	Int (n=NR): NR Comp (n=NR): NR Relative change estimate: -7%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Inclusion:		Intentions? No	Narrative: Controlling for parental
	Families of 5th grade	Intervention duration:	Initiation? Yes	drinking and deviant peer association,
	students agreeing to	Parents: Weekly x 6 weeks	Use? Yes	the intervention was
	participate	Children: 10 weeks	SU disorder? No	associated with reduced risk in
			Educational outcomes?	initiation of alcohol use β =-0.07,
	Sample size: 5th grade	Focus of intervention	Morbidity? No	p<.05)
	subset	activities:	Mortality? No	
	Baseline: 361 families	Both parents/caregivers and	Equity? No	Outcome: Illicit drug use initiation
	Intervention: 247	youth: Yes		Measure: Survival analysis initiation
	families	Parents only: No		Baseline
	Comparison: 147			Int (n=NR): NR
	families	For Child? Yes		Comp (n=NR): NR
	Follow-up: 351 families	Class-room delivered social and		Up to 7-year follow-up
	Loss to f/u: 2.8%	problem-solving skills training:		Int (n=NR): NR
		20 1-hour group sessions		Comp (n=NR): NR
	Study population:			Relative change estimate: -9%
	Characteristics for the	School playground delivered		Narrative: Controlling for parental
	overall sample (671	recess intervention (Good		drinking and deviant peer association,
	families) not for the	behavior game)		the intervention was
	study subset (371	Other? Yes. parent-teacher		associated with reduced risk in
	families) with 5th	communication aids such as a		initiation of illicit drug use $B=-0.09$,
	graders	weekly newsletter for parents and the "LIFT Line,		p<.10)
	Study Population:			Growth in Substance Use
	Parents and	Comparison group: Families in		Outcome: Tobacco use
	Caregivers	study schools which received		Measure: Overall average use over
	Intervention group	services as usual		time
	Age: Mothers -			Baseline
	<25 4%			Int (n=NR): NR
	25-50 96%			Comp (n=NR): NR
	>50 0%			Up to 7-year follow-up
	Sex: NR			Int (n=NR): NR
	Race/ethnicity: Mothers			Comp (n=NR): NR
	European American			Narrative: The intervention had a
	94%			significant beneficial impact on overall

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	African American			average use for tobacco over time (β =-
	0.5%			0.10 p<0.05)
	American Indian 2.5%			
	Asian/Pacific Islander			Outcome: Alcohol use
	0.5%			Measure: Overall average use over
	Hispanic 1.9%			time
	Other: 0.5%			Baseline
	Education: Father			Int (n=NR): NR
	<hs 13%<="" td=""><td></td><td></td><td>Comp (n=NR): NR</td></hs>			Comp (n=NR): NR
	HS 40%			Up to 7-year follow-up
	Some college 33%			Int (n=NR): NR
	College graduate 10%			Comp (n=NR): NR
	Postgraduate 4			Narrative: The intervention had a
	Income: Intervention			significant beneficial impact on overall
	arm			average use for alcohol over time (B=-
	<\$15,000			0.15 p<0.001)
	21%			
	\$15,000-\$30,000			Outcome: Illicit drug use
	33%			Measure: Overall average use over
	\$30,000-\$50,000			time
	37%			Baseline
	>\$50,000			Int (n=NR): NR
	10%			Comp (n=NR): NR
	Other: NR			Up to 7-year follow-up
				Int (n=NR): NR
	Study Population:			Comp (n=NR): NR
	Youth in both study			Narrative: The intervention had a
	arms			significant beneficial impact on overall
	Age: NR (Grade 5			average use for illicit drugs over time
	students)			(ß= -0.12 p<0.05)
	Grade level(s): Grade 5			
	at baseline			
	Sex: 51% female; 49%			
	male			
	Race/ethnicity:			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	European-American			
	85%			
	Latino-American 4%			
	Asian-American 4%			
	Native American 3%			
	African American 1%			
	Multi-racial 2%			
	Education: NA			
	Income: NA			
	Other:			
	Two-parent biological			
	family 57%			
	Single-parent family			
	22% Stepfamily 20%			
	Community			
	characteristics:			
	Average free lunch rate			
	43.3%			
Author Year	Setting: Home (of	Brief description of	Brief description: Paper	Raw data is not reported in the paper.
Dembo et al. (2002)	families)	intervention and content:	focuses on heavy drinking	
		Family Empowerment	(alcohol) as the outcome	Overall results
Location: USA;	Urbanicity: NR	Intervention with up to 30 home-	measure, but it is unclear if	The difference between Intervention
Hillsborough County,	(Mixed)	based sessions on family	other substances were	(FEI) and comparison (ESI) was not
Florida (Tampa)		communication and rules from a	evaluated	significant at 12-36m f/u (record as
	Eligibility: Youth	clinician-trained paraprofessional		12m)
Years for Study:			Substance(s)*	
Recruitment: 1994-	Recruitment:	Family communication	Alcohol	Subset results
1998	Recruited families of	Parenting and problem-solving		The reported frequency of getting very
Total: 1994-2001	youth processed at the	skills	Polysubstance measures? No	high or drunk on alcohol declined more
	Hillsborough County	Family limits, expectations, and		over time for FEI completers than FEI
Period for Study: 38	Juvenile Assessment	rules	Outcome types	non-completers.
months (10week	Center (informed		Intentions? No	
intervention + 12-36m	consent)	Substance(s) focused*	Initiation? No	Outcome: Change in use of alcohol
f/u)		Not reported (General)	Use? Yes	to get high or drunk

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Families were randomly		SU disorder? No	Measure: Frequency of getting high or
Study Design:	assigned to treatment	Format:	Educational outcomes? No	drunk on alcohol in the preceding 12
Individual RCT	FEI or comparison ESI	Family sessions (Parent + child)	Mental health (depressive	months
	as intervention slots	including all members face-to-	symptoms; anxiety; etc.) No	Baseline
CG Suitability:	became available	face group	Morbidity? No	Int (n=NR): NR
Greatest			Mortality? No	Comp (n=NR): NR
	Inclusion:	Intervention intensity:	Equity? No	12–36-month follow-up
Risk of Bias	Youths processed at	Sessions or modules 30 sessions		Int (n=NR): NR
Assessment	the Hillsborough	Number of hours per session: 1	Other outcomes? No	Comp (n=NR): NR
a) Randomization-	County Juvenile	hour (3 times a week)		Change in mean difference or
Unclear	Assessment Center	Total hours of intervention: 30		proportion: NR
b) Concealment-	who were arrested on	hours		(95% CI NR) p=NR
Unclear	misdemeanor or felony			
c) Blinding– High	charges	Implementer(s)		
d) Outcomes- High		Paraprofessionals trained by		
e) Selective- Low	Sample size: Total	clinicians		
	Bsline: 315 youth +			
	family	Intervention duration: 10		
	Follow-up: 278 (87%)	weeks		
	with at least one f/u			
	survey (12-36 months	Additional components: Staff		
	f/u)	available for information and		
	Loss to f/u: 13% for	referrals for other services		
	minimum f/u of	(parent and child)		
	12months			
		Program implementation and		
	Total study population:	family activities manuals		
	N=278 families			
	(Intervention +	Focus of intervention		
	Control)	activities:		
		Both parents/caregivers and		
	Study Population:	youth: Yes		
	Parents and	Parents only: No		
	Caregivers			
	Age: NR			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: NR	Parent and child (either in the		
	Race/ethnicity: NR	same session or not)? Yes		
	Education: NR	Parent and child in the same		
	Income: NR	session/activity? Yes		
	Employment			
		Comparison group: Extended		
	r 11%	Services Intervention (ESI) with		
		monthly contact phone calls and		
	13%	provision of information and		
	Skilled 5%	referrals for other services		
	Unskilled-semi-skilled			
	37%			
	Public assistance 8%			
	Not reported 25%			
	Study Population:			
	Youth			
	Age: mean 14.5 years			
	Grade level(s): NR			
	In school 88%			
	Not in school 12%			
	Sex: 44%female; 56%			
	male			
	Race			
	Anglo 56%			
	African-American 41%			
	Other 3%			
	Ethnicity:			
	Latino 26%			
	Non-Latino 74%			
	Education: NR			
	Income: NR			
	Other: Living situation			
	Biological parents 17%			
	Mother 51%			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Father 3%			
	Guardian 3%			
	Multiple other: 26%			
	Community			
	characteristics:			
	Study attempted to			
	oversample on female			
	gender and Latino			
	ethnicity			
Author (Year):	Setting: School and	Brief description of	Brief description Structure	Outcome: Tobacco use
Dishion & Andrews et	Home (mixed)	intervention and content:	interviews with youth on self-	Parent-focused intervention vs Control
al. (1995)		Multi-arm study of parent and	reported tobacco use frequency	Measure: Mean self-reported frequency
	Urbanicity: Suburban	youth-focused interventions	in the prior 3 months	of tobacco use in the past 3 months
Location: USA, Oregon				
	Eligibility: Families	Four intervention arms and a	Substance(s)*	Baseline
Years for Study:	with a youth 10-14	control arm	Tobacco (self-report with	Int (n=26): 0.91
1988-1991	years old meeting risk	1 Parent-focus Parent only	carbon monoxide test)	Comp (n=39): 0.88
	criteria on screening	weekly group meetings and		Follow-up (in months): 15
Period for Study: 15	(screening excluded	therapist, parent co- leaders.	Polysubstance measures	Int (n=21): 0.63
months	50% of families)	Initial home visit by therapist	(Yes/No)? No	Comp (n=36): 1.19
		2 Teen-focus Teen only weekly		Absolute change: NR
Study Design:	Recruitment: Families	group meetings and therapist,	Outcome types	Relative change: NR
Individual RCT	self-referred	peer co leaders. Initial home visit	Intentions? NO	Narrative results: Mean frequency
		by therapist	Initiation? NO	difference -0.59
CG Suitability:		3 Parent-focus and teen-focus	Use? YES	Favorable (Yes/No/No effect): Yes
Greatest	school counselors	(as above)	SU disorder? NO	Statistical significance: p=0.20 NS
		Parent weekly group	Educational outcome: Yes	
Risk of Bias	Inclusion/Exclusion:	Youth weekly group	Mental health: NO	Outcome: Tobacco use
Assessment	Family with child	Initial home visit by therapist	Morbidity? NO	Parent-focused+ Teen-focused
a) Randomization – Low	-	4 Self-directed Received	Mortality? NO	intervention vs Control
b) Concealment – High	dimensions of	intervention materials (no weekly	Equity)? NO	Measure: Mean self-reported frequency
c) Blinding – High		group meetings or therapist)		of tobacco use in the past 3 months
d) Outcomes – High	(substance use, stress)		Other outcomes? YES	
e) Selective – High				Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sample size: 158	Parent content - Family	Externalizing behaviors based	Int (n=31): 0.95
	families (119	management and communication	on mother and teacher surveys	Comp (n=39): 0.88
	intervention arms +39	skills	(includes undefined school	Follow-up (in months): 15
	control)	Youth content- Self regulation	behavior problems)	Int (n=29): 2.09
	Baseline 158	and prosocial behavior		Comp (n=36): 1.19
	Follow-up 141			Absolute change: NR (1.14-0.31) =
	Loss to f/u 10.7%	Additional Interventions (all		+0.83
		intervention arms):		Relative change: NR
	Overall study	Printed materials: 6 newsletters		Narrative results: Mean frequency
	population: Parents	Videos: 5		difference =+0.83
	and Caregivers			F(1,133)=4.0 p<0.05
	Age: NR	Intervention/program name:		Favorable (Yes/No/No effect): No
	Sex: NR	Adolescent Transitions Program		Statistical significance: Yes; p < 0.05
	Race/ethnicity:			
	European ancestry	Substance(s) focused		Figure 3. 1 year follow up showed
	90%	General prevention		increased smoking behavior in teen
	Education:			focused interventions $F(1,133) = 4.40$
	Not a high school	Format: Face-to-face; group		p< 0.05 (Post hoc analysis)
	graduate	sessions supplemented by three		
	Mother 14%, Father	sessions with individual families		
	21.4%			
	Some college	Intervention intensity:		
	Mother 50%; Father	Number of sessions: 12 weekly		
	45%	Number of hours per session: 1.5		
	Employment NR	hrs. (90 min)		
	Income: median	Total hours of intervention: 18		
	income range \$15000\$	hrs.		
	to \$19999; 25%			
	<\$10,000k year	Implementer(s)		
	On financial assistance	Therapist		
	58%	Co-leaders (parents and teens)		
	Family status:			
	Single parent 43.3%	Intervention duration: 3-4		
	Two parent 56.7%	months		
	Other:			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Children in home 2.2	Focus of intervention		
		activities:		
	Study Population:	Both parents/caregivers and		
	Youth	youth: Yes		
	Age: mean 12.4 years Grade level(s): 6th-8th	Parents only: No		
	Sex: Female 47.5%	Comparison group: Received		
	Male 52.5%	no intervention.		
	Race/ethnicity:			
	European ancestry:			
	95%			
	Other: NR			
	Community			
	characteristics: NR			
Author (Year):	Setting: Mix (data	Brief description of	Brief description:	Tests intervention effects on
Estrada et al. (2015)	collected at schools, 1	intervention and content:	T1, baseline	preventing/reducing each outcome
	session at home, other	(1) 5 parent group sessions	T2, 6 months	variables conducted using growth curve
Location: USA, Florida	sessions maybe at	(2) 3 parent-homework	T3, 12 months	modeling. Growth curve analyses used
(Miami Dade)	school)	assignments	T4, 24 months	to estimate individual trajectories of
		(3) 1 parent-adolescent		change and to test for differences
-	=	communication family visits	Substance use: questions	between conditions over time (b-
- 2013	suburban		regarding recent (past 90	intercept).
		Sessions = parent centered, with	days) and lifetime use of	
Period for Study: 24	Eligibility: Latino	adolescents' participation in	cigarettes, alcohol, or illicit	For substance use outcomes, tested
months (baseline, 6	youth with at least one	intervention activities limited to	drugs	intervention effects on overall
months post baseline,	caregiver, youth must	family visit.	Dinem was veriable and	substance use and substance use
12 months post	provide assent	topics - ophoneing	Binary use variable = any	initiation (i.e., any use of cigarettes,
baseline, 24 months post baseline)	Recruitment:	topics = enhancing communication and managing	substance use (i.e., cigarettes, alcohol, or illicit substances) in	alcohol, or illicit drugs) during the past 90 days. Then, cigarette use, alcohol
post paseline)	four Miami-Dade	adolescent peer pressure	the 90 days before each	use, and illicit drug use separately.
Study Design:	County public high		assessment	
Individual RCT	schools	Intervention/program name:	Binary initiation variables	Chi-square tests examined if significant
		Brief Familias Unidas	no substance use at baseline	differences existed in substance use
	Inclusion: above		but used at f/u	

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
CG Suitability:		Substance(s) focused*		and sex initiation rates by condition for
Greatest	Exclusion:	General - substance use and	Youth who indicated having	each follow-up.
	If adolescent did not	sexual risk behavior sessions	used illicit substances were	
Risk of Bias	give assent, family	were combined into one	also asked about dosage, type,	Moderating effects of age (15, >15
Assessment (ROB2)	informed that they did		and source.	years) and gender
a) Randomization -	not meet study criteria	Format: face-to-face (group and		
Some concerns		family visits)	Sexual risk behavior: had ever	Outcome: substance use initiation
b) Deviations - Some	Sample size:		had sex (including vaginal,	Measure: rate (proportion)
c) Missing data - Low	Baseline 160	Intervention intensity: weekly	anal, or oral sex) in their	
d) Outcome	Int 72	Number of sessions or modules:	lifetime and in the 90 days	Baseline
measurements - Low	Control 88	6	before assessment	Int (n=72): NR
e) Selective - Low		Number of hours per session: 2h		Comp (n=88): NR
	24 mo Follow-up 93%	(parent group session), 1h	Adolescents who reported	Follow-up (in months): 24
Overall: Some concerns	(148)	(family visit)	having had sex in past 90 days	Int (n=66): 35.0%
	Int (66)	Total hours of intervention: 11h	asked how often they had	Comp (n=82): 49.0%
	Control (82)	(5 * 2h + 1h)	vaginal or anal sex without a	Absolute change: -0.14
			condom, range = 0 (Never) to	Relative change: -28.57%
	24 mo Loss to f/u 7%	Implementer(s): NR	4 (Always).	Narrative results: Intervention youth
	(12)			had lower overall substance use
	Int (6)	Intervention duration: 6-week	Substance(s)*	initiation rate compared to control,
	Control (6)	intervention	Tobacco (smoking), alcohol,	difference not statistically significant
		Focus of intervention	illicit substances	Favorable (Yes/No/No effect): Yes
	Note: study reported	activities:		Statistical significance: No, $p = .19$
	intervention and	Both parents/caregivers and	Polysubstance measures? YES	
	control separately,	youth: Yes		Moderation analyses (Gender):
	reported intervention	Parents only: No	Outcome types	significant moderation effect of gender
	population		Intentions? NO	on overall substance use initiation (p=
	characteristics	Parent and child (either in the	Initiation? YES	.04). Intervention efficacious in
		same session or not)? Yes	Use? YES	preventing substance use initiation
	Study population:	Parent and child in the same	SU disorder? NO	among girls (28.6% vs. 65.2% for brief
	Parents and	session/activity? Yes	Educational outcomes (test	Familias Unidas and CPC, respectively;
	Caregivers		score; attainment; grade	p = .02,), but not for boys (42.1% vs.
	Age: NR	Comparison group:	retention; disciplinary actions;	34.6% for brief Familias Unidas and
	Sex: NR	Community practice (CPC)	etc.)? NO	CPC, respectively; $p = .61$).
	Race/ethnicity: 100%	school-based HIV risk-reduction	Mental health (depressive	
	Latino	intervention.	symptoms; anxiety; etc.)? NO	Outcome: Any substance use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study	Characteristics Education: NR Employment NR Income: median household income between \$10,000 and \$15,000; \$0-\$9,999 = 38.0% \$10,000-\$19,999 = 32.4 \$20,000-\$29,999 = 18.3 >\$30,000 = 11.3 Marital status: NR Study Population: Youth Age: 15.3 years Grade level(s): 9 th Sex: 51.4% female, 48.6% male Race/ethnicity: 100% Latino Other US Born - 61.1% foreign-born - 38.9% (Primarily Cuba)		OutcomesMorbidity? NO Mortality? NO Equity (stratified analysis; focused on one historically disadvantaged group)? YESOther outcomes? family functioning variables (i.e., parental involvement, 	Measure: past 90 days, growth curveBaselineInt (n=72): NRComp (n=88): NRFollow-up (in months): 24Int (n=66): NRComp (n=82): NRAbsolute change: NRRelative change: NRRelative change: NRNarrative results: Nonsignificantdifference in between Intervention and control (b = .24)Favorable (Yes/No/No effect): NRStatistical significance: No, p = .37Outcome: Tobacco (smoking) - cigarette use Measure: past 90 daysBaseline Int (n=72): 0% Comp (n=88): 4.6% Follow-up (in months): 24 Int (n=66): NR Comp (n=82): NR
	living U.S. 16.7% <3 years,			Absolute change: NR Relative change: NR
	18.1% 3 - 9 years 65.3% >9 years Community characteristics: NR			Narrative results: Intervention not significantly efficacious in reducing cigarette use (b =.09) Favorable (Yes/No/No effect): No Statistical significance: No, p = .85
				Outcome: Alcohol use initiation

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline Int (n=72): NR Comp (n=88): NR Follow-up (in months): 24 Int (n=66): NR Comp (n=82): NR Absolute change: NR Relative change: NR Narrative results : Moderation analyses revealed intervention significantly associated with decreased alcohol use initiation among girls (30.4% vs. 64.0%, respectively; p = .02), but not boys (28.0% vs. 26.7%, respectively; p = .91). Favorable (Yes/No/No effect): Yes Statistical significance: Yes, for girls, not for boys
				Outcome: Alcohol use Measure: past 90 days Baseline Int (n=72): 4.2% Comp (n=88): 4.7% Follow-up (in months): 24 Int (n=66): NR Comp (n=82): NR Absolute change: NR Relative change: NR Narrative results: Intervention not significantly efficacious in reducing alcohol use (b =.17) Favorable (Yes/No/No effect): No Statistical significance: No, p = .51

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Outcome: illicit drug use
				Measure: past 90 days
				Baseline
				Int (n=72): 1.4%
				Comp (n=88): 2.3%
				Follow-up (in months): 24
				Int (n=66): NR
				Comp (n=82): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: Intervention not
				significantly efficacious in reducing
				illicit drug use (b = .03)
				Favorable (Yes/No/No effect): No
				Statistical significance: No, $p = .93$
				Outcome: Sex initiation (oral,
				vaginal, or anal)
				Measure: rate (proportion)
				Baseline
				Int (n=72): NR
				Comp (n=88): NR
				Follow-up (in months): 24
				Int (n=66): 34.0%
				Comp (n=82): 55.0%
				Absolute change: -0.21
				Relative change: -38.18%
				Narrative results: At 24 months,
				Intervention youth had a significantly
				lower sexual initiation rate.
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p = .028

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Outcome: Any sex (oral/vaginal/anal)
				Measure: past 90 days
				Baseline Int (n=72): 12.5%
				Comp (n=88): 13.6%
				Follow-up (in months): 24 Int (n=66): NR
				Comp (n=82): NR
				Absolute change: NR Relative change: NR
				Narrative results: A total of 65 youth
				reported being sexually active, during any of the assessment time points
				participants who did not engage in sex
				during the previous 90 days counted as part of not engaging in risky sex
				Favorable (Yes/No/No effect): NR
				Statistical significance: NR
				Outcome: Unsafe vaginal/anal sex
				(i.e., risky sex, inconsistent condom use)
				Measure: past 90 days, Growth curve
				analyses
				Baseline
				Int (n=72): 77.8% Comp (n=88): 58.3%
				Follow-up (in months): 24
				Int (n=66): NR Comp (n=82): NR
				Absolute change: NR
				Relative change: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results : no significant differences in unsafe sexual intercourse, between intervention and control (b = .26) Favorable (Yes/No/No effect): NR Statistical significance: No, p = .25 <i>Moderation analyses (Age):</i> significant moderation effect of age on unsafe sex (b =1.12; p = .02). Intervention significantly associated with reduced unsafe sex among adolescents aged 15 years or less (p < .001), but not
				among older adolescents ($p = .37$).
Author (Year): Estrada et al. (2017)	Setting: School Urbanicity: Urban and	Brief description of intervention and content: Parent-centered preventive	Brief description: Substance(s)* Alcohol and illicit drug use (e.g., marijuana,	Addressed missing data for the repeated measures by using full information maximum likelihood
Location: USA, Florida (Miami-Dade County)	suburban	intervention program in preventing risky behaviors	LSD, cocaine	Based all other analyses on intent-to- treat ITT except past-90-day sex
Years for Study:	Eligibility: 1. be of Hispanic origin,	Intervention/program name:	Baseline only mean data: Alcohol use in lifetime	without a condom
September 2010 through June 2014	2. attend eighth grade at the time of the baseline assessment,	Familias Unidas Substance(s) focused* General	Alcohol use in the past 90 d Illicit drug use in lifetime Illicit drug use in the past 90 d	Outcome: Alcohol use Measure: during the previous 90 days. Growth curve model
Period for Study 30	3. live with an adult	Former Crew board in more		
months (also 6 months, 18 months)	primary caregiver who was willing to participate,	Format: Group-based in person (8 multiparent sessions and 4 family sessions)	Polysubstance measures (Yes/No)? Yes, illicit drugs	Baseline No. (%) Int (n=376): 26 (6.9) Comp (n=379): 22 (5.9)
Study Design: Individual RCT	4. live within the catchment areas of the	Youth components Parents teach	Outcome types	Follow-up: NR or 30 months or unclear Int (n=NR): NR
CG Suitability: Greatest	participating middle schools 5. plan to live in South	youth the skills necessary to effectively manage peer pressure to engage in substance use.	Intentions? No Initiation? No Use? Yes	Comp (n=NR: NR Absolute change: NR Relative change: NR
	Florida for the duration of the study.	Parents guide their adolescent in	SU disorder? No Educational outcomes? No	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Characteristics			
Risk of Bias		developing safety and	Mental health? No	Narrative results: b= 0.075; 95%
• •	Recruitment: 18	communication skills.	Morbidity? No	confidence interval [CI] = -0.142 ,
a) Randomization – Low			Mortality? No	0.291; P = .499; d = 0.24
,	letters that were sent	Parent-focused group sessions;	Equity? No	Favorable (Yes/No/No effect): No effect
concerns	home with students	goal to bring parents together to	Other outcomes? Yes	Statistical significance: $P = 0.499$
c) Missing data – Some		practice and learn skills to	Past-90-day sex without	
concerns	Sample size:	improve family functioning in	a condom	Outcome: illicit drug use (e.g.,
d) Outcome	Baseline: 746	order to prevent drug use and	Family functioning and parental	
measurements – Low	Int 376; Cont 370	risky sexual behaviors (skills to	monitoring	Measure: during the previous 90 days
e) Selective – Low		improve family functioning in		Zero-inflated Poisson growth models
	Follow-up: Attrition	order to prevent drug use and		
Overall: Some concerns		risky sexual behaviors)		Baseline No. (%)
	12.2% for Familias			Int (n=376): 12 (3.2)
	Unidas and prevention	Intervention intensity:		Comp (n=370): 18 (4.9)
	as usual (from study)	Number of sessions: 12 (8 parent		Follow-up: NR or 30 months or unclear
	From assessment:	group, 4 family including parent		Int (n=): NR
	257/376 = 68.4%	and youth)		Comp (n=: NR
	274/370 = 74.0%	Number of hours per session:		Absolute change: NR
		group sessions were 2 hours and		Relative change: NR
	Study population:	family sessions were 1 hour		Narrative results: b = -0.20; 95%
	Parents and	each?		CI= -0.298,
	Caregivers	Total hours of intervention: NR		-0.105; P < .001; d = 0.27
	Age: 41 years			Favorable (Yes/No/No effect): Yes
	Sex: female 83 male17	Implementer(s):Master's level		Statistical significance: P < .001
	Race/ethnicity: NR	social workers and mental health		
	Education: NR	counselors (n=27) Fluent in		Zero-inflated growth models
	Employment: NR	Spanish. Facilitators received		Drug-use trajectories for
	Income: \$0-9999	training for 4 days and 2-hour,		multigroup analysis:
	26.6%	weekly face-to face group		Familias Unidas:
	\$10 000-19000 25.0%	supervision for 12 weeks.		Mean trajectory=0.176; 95% CI= -
	\$20 000-29000 14.4%	Facilitators were compensated		0.001, 0.354; P=0. 201
	>\$30 000 35.8%			Prevention-as-usual youths:
	Marital status: NR	Intervention duration: 3		Mean trajectory=0.184; 95%
	Other:	months total (8 parent + 4		CI=0.064, 0.304; P < .01
		family)		Unstandardized coefficients are
				presented in Table 2 (not shown)

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836.25	Results	Outcomes	Intervention Characteristics	Population Characteristics	Study
	likelihood of using drugs: -0.83		Focus of intervention	Study Population:	
	(log)		activities:	Youth	
			Both parents/caregivers and		
	Past-90-day sex without a c		youth: Yes	Grade level(s): 8 th	
	For sex without a condom, adol		Parents only: No	grade	
	asked if they had engaged in se			Sex: female 48.1; male	
	(vaginal, anal, or oral) in the pr		Comparison group:	51.9	
	90 days and how often they had		Prevention-as usual group	Race/ethnicity:	
			•		
	-		by the MDCPS system to	White 0	
and 4=	-				
	always		-	53.2% US born	
			_		
			-	-	
•			-	characteristics: NR	
active.	who reported being sexually act		via a science-based education.		
in	Familias Unidas was effective in				
reasing	preventing drug use from increa				
ses in sex	and prevented greater increase				
	without a condom 30 months at				
on as	baseline, relative to prevention				
	usual. There were increases in s				
ine levels	without a condom from baseline				
or both	to 30 months after baseline for				
re	groups, these differences were				
ntion as	statistically greater for preventi				
	usual.				
lay sex	The trajectories for past-90-day				
	without a condom among partic				
-	who reported being sexually act				
•	= 130) between Familias Unida				
	prevention as usual were statist				
	 without a condom (vaginal or rated on a 5-point scale: 0 = 1 = less than half of the time; about half of the time; dabout half of the time; a about half of the time; a always For past-90-day sex without the analyses only included pawho reported being sexually Familias Unidas was effective preventing drug use from incland prevented greater increading without a condom 30 months baseline, relative to prevention to a statistically greater for preventing for preventing for preventing for preventing the search of the sear		consisted of the HIV risk reduction intervention provided by the MDCPS system to students. Science teachers delivered the MDCPS intervention in a classroom setting and it consisted of 6 lessons designed to decrease HIV/AIDS and other sexually transmittable diseases via a science-based education.	Black 0 Hispanic 100% White 0 Asian or other 0 Other: 0 53.2% US born Community characteristics: NR	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				different (b = 0.093 ; 95% CI = 0.024 , 0.162; P < .01; d = 0.98).
				Multigroup analysis (i.e., Familias Unidas and prevention as usual) showed that the trajectory of sex without a condom among prevention- as-usual youths (mean trajectory = 0.24; 95% CI= 0.154 , 0.281 ; U = 3.197; P < .001; d = 0.280) increased more than those of Familias Unidas youths (mean trajectory = 0.14 ; 95% CI= 0.078 , 0.207 ; P < .001).
Author (Year):	Setting: School	Brief description of	Brief description: How many	Missing data for the repeated measures
Estrada et al. (2019)	(Miami-Dade County	intervention and content:	times he or she had used a	were addressed using full information
Related studies:	Public Schools MDCPS)	Intervention consisted of (1) online recorded, e-parent group	particular substance during the last 90 days assessed with	maximum likelihood (FIML).
	IIrhanicity: Urhan and	sessions that were accessed via	items from Monitoring the	Descriptive statistics for mean use
Estrada et al., 2017a	suburban	the Internet and (2) parent-	Future survey	(Supplementary Table 4)
International Journal of		adolescent family sessions		
Environmental Research	Eligibility: (a)	delivered by a facilitator via web-	Substance(s)* Drug	Narrative results (Table 1):
and Public Health		based video conferencing	(marijuana, cocaine, inhalants,	Zero-inflated Poisson growth models to
	origin; (b) adolescents	software.	and other drugs), prescription,	estimate longitudinal changes on past
Location: USA, Florida	in the eighth grade at		cigarette, and alcohol	90-day drug use, prescription drug
(Miami-Dade County)	enrollment; (c)	Differences between		use, cigarette use, and alcohol use
	5	Familias Unidas and eHealth	Polysubstance measures	
	a primary caregiver	Familias Unidas		2 study conditions on the frequency of
2014 to October 2016	who was willing to	No group of parents meeting with		use as well as the likelihood of use
	participate in the	a facilitator	inhalants, and other drugs)	
	study; (d) families	Parents logged on to the eHealth		Outcome: Any drug
months	living within the	Familias Unidas website to access		Measure: Mean (SD) and Trajectories
	catchment area of a	prerecorded e-parent group	Intentions? No	for the past 90-day drug use summed
Study Design:	MDCPS school at	sessions, interactive exercises,	Initiation? No	from four different types of drugs (i.e.,
Individual RCT	baseline; (e) access to	etc	Use? Yes	marijuana, inhalants, cocaine, and
	the Internet		SU disorder? No	other drugs).

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
CG Suitability:	and (f) adolescents	Intervention/program name:	Educational outcomes? No	
Greatest	exhibiting a level I, II,	eHealth Familias Unidas	Mental health? No	Baseline
	or III behavior problem		Morbidity? No	Int (n=113): 3.49 (33.87)
Risk of Bias	as defined by MDCPS.	Substance(s) focused* General	Mortality? No	Comp (n=117): 0.35 (2.68)
Assessment (ROB2)			Equity? Yes (100% Hispanic)	Follow-up: 12m
a) Randomization –	Recruitment: From 18	Format: Website based group	Other outcomes? Family	Int (n=82): 0.35 (1.63)
Some concerns	middle	format for parents	functioning (parent-adolescent	Comp (n=98): 4.68 (31.93)
b) Deviations – Low	schools in the MDCPS		communication, parental	Absolute change: -7.4 times in last
c) Missing data – Low	with letters that were	Youth components: Tailored	monitoring of peers, and	90 days
d) Outcome	sent home with	based on the goals and needs of	positive parenting),	Relative change: -99.2%
measurement – Low	students and through	each individual family in each	condomless sex	Narrative results: eHealth Familias
e) Selection – Low	referrals from school	session (e.g., communication		Unidas vs prevention as usual were
	counselors	skills, behavior		statistically different (b = $-1.16, 95\%$
Overall: Some concerns		management),		CI = - 1.33, -1.00, p < .001)
	Sample size: Total 230			Favorable (Yes/No/No effect): Yes
	Baseline: eHealth	Parent components: e-parent		Statistical significance: Yes For
	Familias Unidas int.	web-based video sessions		modelled results $p < .001$.
	113	consisted of simulated parent		
	Prevention as usual	group discussions, a culturally		Outcome: Marijuana use
	cont. 117	syntonic telenovela series		Measure: Mean (SD) and Trajectories
	Follow-up: e Health	(i.e., soap opera), and interactive		for the past 90-days for Marijuana use
	Familias Unidas int.	exercises.		
	74/113 Attrition:			Baseline
	34.6%	Intervention intensity:		Int (n=113): 1.01 (8.52)
	Prevention as usual	Number of modules: 12 total		Comp (n=117): 0.20 (1.27)
	cont. 99/117 Attrition:	sessions		Follow-up: 12m
	15.4%	e-parent group video sessions: 8		Int (n=82): 0.24 (1.27)
		Family Sessions with adolescent:		Comp (n=98): 2.17 (11.85)
	Study population:	4		Absolute change: -2.74 times in the
	Parents and	Number of hours per session:		last 90 days
	Caregivers	e-parent group video sessions:		Relative change: -97.8%
	Age: NR	30min		Narrative results: $= -0.52, 95\%$ CI
	Sex: NR	Family Sessions with adolescent:		= - 0.90, - 0.15, p < .01
	Race/ethnicity: NR	45min		Favorable (Yes/No/No effect): Yes
	Education: NR	Total hours of int		Statistical significance: Yes For
	Employment: NR			modeled results $p < .01$

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Income: yearly	ervention: 7 hours (e parent		
	household incomes	group: 4 hours, family session 3		Outcome: Inhalant use
	(55.7%) were below	hours)		Measure Mean (SD) and Trajectories
	US\$20,000.			for the past 90-days for Inhalant use
	Marital status: NR	Implementer(s): eHealth (pre-		
		recorded); 16 mental health		Baseline
	Study Population:	professionals, all with master's		Int (n=113): 0.85 (8.51)
	Youth	level degrees in their fields (e.g.,		Comp (n=117): 0.07 (0.83)
	Age: mean 13.6 years	mental health counseling, social		Follow-up: 12m
	(SD = 0.7	work).		Int (n=82): 0.07 (0.56)
	Grade level(s): 8 th			Comp (n=98): 0.82 (7.68)
	grade	3 days of training included		Absolute change: -1.53 times in last
	Sex: female 37%; male	didactic instruction, role-plays,		90 days
	63%	and group discussion of recorded		Relative change: -98.8%
	Race/ethnicity: 100%	sessions. Facilitators received		Narrative results: $b = -1.1995\%$ CI
	Hispanic	four 2-h supervision sessions		= -1.64, - 0.75, p < .001
	Black 0	delivered throughout the course		Favorable (Yes/No/No effect): Yes
	Hispanic 0			Statistical significance: Yes for
	White 0	Intervention duration: 3		modeled results $p < .01$
	Asian or other 0	months		
	Other: 0			Outcome: Cocaine use
	56.5% were born in the	Focus of intervention		Measure: Mean (SD) and Trajectories
	US 20% born in Cuba;	activities:		for the past 90-day for Cocaine use
	6% born in Honduras,	Both parents/caregivers and		
	3% born in Columbia	youth: Yes		Baseline
		Parents only: No		Int (n=113): 0.82 (8.50)
	Community			Comp (n=117): 0.07 (0.83)
	characteristics: NR	Comparison group: Prevention		Follow-up: 12m
		as usual consisted of the HIV		Int (n=82): 0.01 (0.11)
		prevention curriculum provided		Comp (n=98): 0.83 (7.68)
		by MDCPS via health and		Absolute change: -1.57 times in last
		science classes. This curriculum		90 days
		has six lessons delivered in		Relative change: -99.8%
		a classroom setting and aim to		Narrative results : $b = -0.1195\%$ CI
		provide information about		= -0.59, 0.37, NS (but p not shown)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study	-		Outcomes	ResultsFavorable (Yes/No/No effect): Yes for mean, No effect for modeled Statistical significance: NoOutcome: Drug use Measure: Mean (SD) and Trajectories for the past 90-days for other drug useBaseline Int (n=113): $0.82 (8.50)$ Comp (n=117): $0.00 (0.00)$
				Baseline Int (n=113): 0.04 (0.31) Comp (n=117): 0.86 (9.23) Follow-up: 12m Int (n=82): 0.00 (0.15) Comp (n=98): 0.97 (7.76) Absolute change: -0.15 times in last 90 days Relative change: -100%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: $b = -1.34$, 95% CI = - 2.33, - 0.35, p < .01 Favorable (Yes/No/No effect): Yes Statistical significance: Yes for modeled results p < .01
				Outcome: Cigarette use Measure Mean (SD) and Trajectories for the past 90-days for cigarette use
				Baseline Int (n=113): 0.53 (4.80) Comp (n=117): 0.87 (9.23) Follow-up: 12m Int (n=82): 0.00 (0.24) Comp (n=98): 0.81 (4.55) Absolute change: -0.47 times in last
				90 days Relative change: -60.9% Narrative results: $b = -1.05$, 95%CI = -1.72, -0.39 , $p < .01Favorable (Yes/No/No effect): YesStatistical significance: Yes formodeled results p < .01$
				Outcome: Alcohol use Measure Mean (SD) and Trajectories for the past 90-days for alcohol use
				Baseline Int (n=113): 0.25 (1.46) Comp (n=117): 1.02 (9.24) Follow-up: 12m Int (n=82): 0.37 (1.55) Comp (n=98): 0.39 (1.12)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Absolute change: +0.75 times in last 90 days Relative change: +287.1% Narrative results: b = +0.02, 95% CI = - 0.25, .28, p = .623, NS Favorable (Yes/No/No effect): No Statistical significance: No
				Post hoc test, drug use was split into 4 specific drug categories (i.e., marijuana, cocaine, inhalants, and other drugs) to test condition effects separately for each of these outcome variables using multi-group tests.
				Marijuana use in the past 90 days among eHealth Familias Unidas youth decreased across time points (mean trajectory = -0.83 , 95% CI = -1.03 , -0.64, p < .001) whereas it increased over time (mean trajectory = 1.04 , 95% CI = 0.76 , 1.33 , p < .001) among prevention as usual youth.
				Inhalant use in the past 90 days among eHealth Familias Unidas youth was stable across time points (mean trajectory = -0.69 , 95% CI = -1.73 , .34, p = .19) whereas it increased over time (mean trajectory = 0.97, 95% CI = 0.61, 1.33, p < .001) among prevention as usual youth.
				Prescription drug use in the past 90 days among eHealth Familias Unidas youth decreased across time points

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				(mean trajectory = -1.70 , 95% CI = - 2.94, - 0.46, p < .01) whereas it was stable over time (mean trajectory = 0.03, 95% CI = -0.01 , .07, p = .215) among prevention as usual youth.
				Cigarette use in the past 90 days among eHealth Familias Unidas youth decreased across time points (mean trajectory = -2.39 , 95% CI = -3.71 , -1.06, p < .001), whereas the trajectory of the past 90-day cigarette use in prevention as usual youth was stable over time (mean trajectory = 0.02, 95% CI = -0.10 , .13, p = .775).
				Condomless sex ehealth to prevention as usual For past 90-day condomless sex, we found no statistically significant intervention effects (b = 0.02, 95% CI = $-0.31,.35$, p = .89, effect size= .11). At the 12-month post baseline assessment follow- up, we did not find main effects for condomless sex. Not favorable, NS.
				Condomless sex current ehealth vs previous study face to face: At the 12-month post baseline assessment follow- up, the current study had a similar effect size for condomless sex trajectories (b [SE] = -0.11 , p = .55, effect size d = 0.11) compared to the

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				face-to-face trial (b [SE] = -0.02 , p = .79, effect size d = 0.12). Significant results on condomless sex found for the 30-month post baseline in the face-to-face trial;
Author (Year): Fang	Setting: Digital - Web-	Brief description of	Brief description:	For each outcome Generalized
et al. (2010)	based (mostly home or	intervention and content:	-	estimating equations (GEE) tested
	other convenient	Family interaction theory Family	Substance(s)*	between-arm differences
Location: USA (19	locations)	interaction (web based) with	Alcohol	
states)		mother daughter Dyads	Cigarettes	Occasions of use in the past 30 days
	Urbanicity: NR		Marijuana	reported as coefficients
Years for Study: 2007	-	Delivered by voiceover	Illicit Prescription drugs	
	Eligibility/	narration, animated graphics,		Outcome: Alcohol use
Period for Study: 12	Recruitment:	and games, session content	Polysubstance measures? No	Measure: 30-day substance use
months (average length	advertisements on	involved skill demonstrations and		
of time between	craigslist.org and in	interactive exercises that	Outcome types	Baseline
baseline and post	mailings to Asian	required the joint participation of	Intentions? Yes	Int (n=54): .06
intervention survey	community service	mothers and daughters.	Initiation? No	Comp (n=50): .26
completion was 6.25	agencies		Use? Yes 30-Day	Mean follow-up: 6.25 months
months)		Substance(s) focused	SU disorder? No	Int (n=54): .07
	Inclusion/Exclusion:	General substance use	Educational outcomes? No	Comp (n=50): .74
Study Design:	Girls needed to be	prevention	Morbidity? No	Absolute change: NR
Individual RCT	Asian, be aged		Mortality? No	Relative change: NR
	between 11 and 14	Format: Web content delivered	Equity? Yes	Narrative results: Favorable
CG Suitability:	years, have private	by a narrator for joint mother-	Targeted intervention to Asian-	(significant)
Greatest	access to a computer,	daughter review including	Americans	Wald x2=5.85 (95% CI NR) p= .016
	and have mothers'	content on:		
Risk of Bias	active participation.	Mother-daughter relationship	Other outcomes? Yes	Outcome: Cigarette use
Assessment		skills	Depression	Measure: 30-day substance use
a) Randomization – Low		Conflict management	Parenting practices	
b) Concealment – Low	mother child dyads	Substance use opportunities	Communication	Baseline
c) Blinding – High	(208 dyads screened)	Body image activities	Youth refusal skills	Int (n=54): .13
d) Outcomes – Low	Bsline 108	Stress management		Comp (n=50): .06
e) Selective – Low	Follow-up 104	Problem solving skills		Mean follow-up: 6.25 months
	Loss to f/u 3.7%	Self-efficacy		Int (n=54): .02

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Comp (n=50): 1.84
	Study population:	Intervention intensity:		Absolute change: NR
	Parents and	Number of sessions or		Relative change: NR
	caregivers:	modules:9-session web-based,		Narrative results: Favorable
	Age: 39.4 years	each session 45 minutes		(marginal significance)
	Sex: Female 100%	Number of hours per session: NR		Wald x2=3.54 (95% CI NR) p= .06
	(mother dyad)	Total hours of intervention: NR		
	Race/ethnicity: Asian			Outcome: Marijuana use
	American 100%	Implementer(s) Web content		Measure: 30-day substance use
	Education: High school			
	22.2%	Intervention duration: 9		Baseline
	College 24.6%	weeks or 4 months (Sept. 2007		Int (n=54): .001
	Graduate school 35.2%	to Dec. 2007)		Comp (n=50): .004
	Income: NR			Mean follow-up: 6.25 months
	Other Single parent,	Focus of intervention		Int (n=54): 0
	13.0%	activities:		Comp (n=50): .01
		Both parents/caregivers and		Absolute change: NR
	Study Population:	youth: Yes		Relative change: NR
	Youth	Parents only: No		Narrative results: Favorable but
	Age: 12.9 years			effect size unclear
	Grade level(s): NR but	Comparison group: Control-		Wald x2=6.84 (95% CI NR) p= .009
	age range = $6-9^{\text{th}}$	arm dyads received no		
	grade	intervention		Outcome: Illicit Prescription drug
	Sex: Female 100%			use
	Race/ethnicity: Asian			Measure: 30-day substance use
	American 100%			
	Education: NR			Baseline
	Income: NR			Int (n=54): .06
	Other NR			Comp (n=50): .03
				Mean follow-up: 6.25 months
	Community			Int (n=54): .01
	characteristics: NR			Comp (n= 50): .14
				Change in mean difference or
				proportion: NR
				Absolute change: NR
				Relative change: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: Favorable
				(significant)
				Wald x2=5.73 (95% CI NR) p= .017
				Outcome: Intention to use in the
				future
				Measure: intention to use any
				substance(s) in the future
				Baseline
				Int (n=54): 2.70
				Comp (n=50): 3.04
				Mean follow-up: 6.25 months
				Int (n=54): 2.11
				Comp (n= 50): 3.70
				Absolute change: NR
				Relative change: NR
				Narrative results: Favorable
				(significant)
				Wald x2=8.10 (95% CI NR) p= .004
				Outcome: Depression
				Measure: Scores are from 5-point
				scales; lower scores are better.
				Outcome variables
				Depression (SE)d
				Baseline
				Control (n ¼ 50) Intervention (n ¼ 54)
				1.62 (.57) 1.41 (.88)
				Posttest
				Control (n ¼ 50) Intervention (n ¼ 54)
				1.68 (.71) 1.26 (.73)
				Intervention by time interaction effect
				Wald c2 3.97
				P = .045
				r= .045

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Author (Year):	Setting: Community	Brief description of	Brief description:	Linear latent growth curve analyses to
Fernandez et al. (2021)		intervention and content:	Timepoint 1: Baseline	examine intervention effects on
	Urbanicity Urban	Healthy lifestyle family-based	Timepoint 2: 6 months	outcomes over 2 years,
Related paper: Prado et	(Miami-Dade County)	intervention	Timepoint 3: 12 months	adolescent BMI percentiles
al., 2020			Timepoint 4: 24 months	(continuous) as a control variable
	Eligibility:	Parent-only group sessions:	post-baseline	
Additional details on	overweight/obese	healthy lifestyle behaviors, risky		Pooled incidence rate ratio (IRR) =
recruitment,	Hispanic 7th/8th grade	behaviors, and positive-parenting	Substance use: self-reported	used as intervention effects for count
randomization (St.	adolescents, one	behaviors discussion. Adolescent	from Monitoring the Future	variables and calculated by taking the
George et al., 2018)	adolescent per family	not present, instead participated	during past 90 days - whether	exponent of the regression coefficient,
	and their primary	in outdoor physical activities.	and how many times they used	i.e., unstandardized b.
Location: USA, Florida,	caregiver eligible to		a particular substance (e.g.,	
Miami (Miami-Dade	participate	Parent homework assignments	"On how many occasions have	Outcome: Alcohol
County)		focused on physical activity and	you taken a prescription drug	Measure: mean (SD) past 90 days
	Recruitment: Study	healthy dietary behaviors instead	without a prescription or taken	
Years for Study:	staff recruited	of substance use and sexual risk	more than what was	Baseline
2015 (recruitment/data	participants beginning	behaviors, as in original Familias	prescribed, in the past 3	Int (n=140): 0.05 (0.38)
collection) 2019	in 2015.	Unidas. Adapted intervention had	months?")	Comp (n=140): 0.03 (0.17)
analysis		large portion of substance use		Follow-up (in months): 24
	Inclusion: a BMI ≥	and sexual risk behavior content	Sexual Risk Behaviors:	Int (n=140): 0.22 (1.23)
Period for Study 3	85th percentile	condensed or removed.	self-reported, condomless sex	Comp (n=140): 0.40 (1.82)
month intervention with	adjusted for age and		from Sexual Behavior	Absolute change: -0.20 score pts
f/u at 6 months, 12	sex, lived with an adult	Parent and adolescent group	Instrument: "In the past 3	Relative change: NA
months, and 24 months	primary caregiver	sessions: joint nutritional and	months, about how often have	Narrative results: effects of
post-baseline	willing to participate in	physical activities (e.g., cooking	you had vaginal or anal sex	intervention compared with prevention
	2-year study, and had	classes, yoga).	without using a condom?"	as usual over time were significantly
Study Design:	plans to remain a			different. IRR = $0.69 (b = -0.37, 95\%)$
Individual RCT	resident of geographic	Family sessions: facilitators	Responses: 0 = Never, 1 =	CI = [-0.49, -0.26])
	study catchment area	guided parent and adolescent in	Less than half of time, 2 =	Favorable (Yes/No/No effect): Yes
CG Suitability: greatest	during study period.	practicing skills parents learned	About half of time, $3 = Not$	Statistical significance: Yes, p value <
		in parent-only group sessions	always, but more than half of	0.001
Risk of Bias	Exclusion:	(e.g., role-playing activities).	time, and $4 = Always$	
Assessment (ROB2)	(1) adolescents had a			Outcome: Marijuana
a) Randomization - Low	BMI <85th percentile	Intervention/program name:	Substance(s)*	Measure: mean (SD) past 90 days
b) Deviations - Low	adjusted for age and	Familias Unidas for Health and	alcohol use, marijuana use,	
c) Missing data - Low	sex and (2) parent	Wellness (FUHW)	and non-prescription drug use	Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
d) Outcome	responses on a PA			Int (n=140): 0.05 (0.42)
measurements - Low	readiness questionnaire	Substance(s) focused*	Polysubstance measures? No	Comp (n=140): 0.01 (0.08)
e) Selective - Low	indicated a serious	General		Follow-up (in months): 24
	health issue (e.g., a		Outcome types	Int (n=140): 0.46 (2.83)
Overall bias: Low	heart condition that	Format: face-to-face group	Intentions? NO	Comp (n=140): 0.71 (3.48)
	requires physician		Initiation? NO	Absolute change: -0.29 score pts
	approval before	Intervention intensity:	Use? YES	Relative change: NA
	engaging in PA, general	Number of sessions or modules:	SU disorder? NO	Narrative results: effects of
	chest pain, dizziness	8 group sessions and 4 family	Educational outcomes (test	intervention compared with prevention
	or loss of	sessions	score; attainment; grade	as usual over time were significantly
	consciousness, bone or	Number of hours per session:	retention; disciplinary actions;	different. IRR = $0.37 (b = -1.00, CI =$
	joint issues) for either	2.5h (1.5h parent only 1h	etc.)? NO	[- 1.22, - 0.78]),
	parents or adolescents.	parent+ adolescent)	Mental health (depressive	Favorable (Yes/No/No effect): Yes
	If a serious health	Total hours of intervention: 24h	symptoms; anxiety; etc.)? NO	Statistical significance: Yes, p value <
	issue was reported,	(8 * 2.5h + 4 * 1h)	Morbidity? NO	0.001
	physician approval was		Mortality? NO	
	needed to participate.	Implementer(s)	Equity (stratified analysis;	Outcome: Non-prescription drug
		2 bilinguals' facilitators trained in	focused on one historically	use
	Sample size	problem-posing, participatory	disadvantaged group)? YES	Measure: mean (SD) past 90 days
	Baseline 280	learning		
	Int (FUHW) $n = 140$		Other outcomes?	Baseline
	Control $n = 140$	Intervention duration: 12-	sexual risk behaviors	Int (n=140): 0.38 (4.27)
		weeks		Comp (n=140): 0.01 (0.08)
	Follow-up 89% (250)			Follow-up (in months): 24
	Int 121	Focus of intervention		Int (n=140): 0.11 (1.05)
	Control 129	activities:		Comp (n=140): 0.06 (0.51
		Both parents/caregivers and		Absolute change: -0.32 score pts
	Loss to f/u 11%	youth: Yes		Relative change: NA
	(30/280)	Parents only: No		Narrative results: effects of
	Int = 19			intervention compared with prevention
	Control = 11	Parent and child (either in the		as usual over time were significantly
		same session or not)? Yes		different. IRR = 0.02 (<i>b</i> = - 3.77, CI =
	Study population:	Parent and child in the same		[- 6.49, - 1.05])
	Parents and	session/activity? Yes		Favorable (Yes/No/No effect): Yes
	Caregivers (Int)			Statistical significance: Yes, p value <
	Age: 42.09 years			0.01

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: 87.1% female, 12.9% male Race/ethnicity: NR (assumed to be 100% Hispanic) Education: NR Employment NR Income: 52.1% Less than \$25,000 43.6%, \$25,000 or more Marital status: 57.1% Married 10% Living with someone, 12.9% Separated 12.1% Divorced 7.9% Never married and not living with someone Other Country of origin 90% Foreign, 10% US Study Population: Youth (Int) Age: 13.04 years Grade level(s): 7th/8th grade (baseline) - 9 th /10 th (last f/u) Sex: 49.3% female, 50.7% male Race/ethnicity: 100% Hispanic adolescents Country of origin	Comparison group: prevention as usual, no active intervention from study staff Referred to community services (local health department resources) for physical activity and nutrition information offered for overweight and/or obese adolescents and their families		Outcome: Sexual risk Measure: scale, mean (SD) past 90 days Baseline Int (n=140): 0.50 (0.58) Comp (n=140): 0.67 (0.58) Follow-up (in months): 24 Int (n=140): 0.11 (0.31) Comp (n=140): 0.19 (0.40) Absolute change: +0.09 score pts Relative change: NA Narrative results: No significant intervention effects found for adolescent sexual risk behaviors, b =0.18 [95% CI: - 0.10, 0.46] Favorable (Yes/No/No effect): Yes, Relative change decreased Statistical significance: No, p value = 0.21

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	39.3% Foreign, 60.7% US			
	05			
	Community			
	characteristics: NR			
Author (Year):	Setting: Mix (school	Brief description of	Brief description:	Not intent to treat since only complete
Forman et al. (1990)	and home)	interventions and content:		data included in analysis. Below
		Personal and social coping skills	Substance(s)*	outcomes reported on: School
Location: Southeastern	IIrhanicity: Urhan	training, with generalization	Tobacco (cigarette), alcohol,	Intervention only (SI), and School +
metropolitan area, USA	orbanicity. Orban	programming to prevent	cannabis	Parent (SI-P) who attended sessions.
	Eligibility:	substance use in high-risk	carinabis	Overall, no significant difference found
Years for Study	Students who attended	adolescents.	Polysubstance measures: No	amongst interventions.
(actual years):	one of the secondary	addrescents.	rorysubstance measures. No	
NR, assume pre-1990	schools (N=30) in a	(a) Coping Skills School	Outcome types	Narrative (overall): Increases in coping
NR, assume pre-1990	seven-school district,	Intervention only included	Intentions? NO	skills ability and positive changes in
Period for Study (total		student training in coping skills,	Initiation? NO	personality/behavioral mediating
time in months): 14.5	southeastern	school staff training	Use? YES	variables, did not correspond to
months (1 year $+$ 2.5	metropolitan area		SU disorder? NO	changes in substance use
months)	inet opolitari area	(b) School+ Parent Intervention:	Educational outcomes (test	
montris)	Recruitment:	student training in coping skills,	score; attainment; grade	Outcome: Tobacco use
Study Design: Group	School staff referral for	school staff training, and parent	retention; disciplinary actions;	Measure: Self-reported frequency
RCT	students. Each parent	training	etc.)? YES	cigarette use (lifetime incidence,
RCI	received \$5/each	u anning	Mental health (depressive	monthly recall, weekly recall, and 24-
CG Suitability:	session, plus \$25 if	Student and school staff topics:	symptoms; anxiety; etc.)? YES	hr recall)
Greatest	attended all sessions	behavioral self-management,	(Coping skills acquisition -	
Greatest	(total: \$50)	emotional self-management,	anxiety management Table 2)	Means (SD):
Risk of Bias	(total: \$50)	decision-making, and	Morbidity? NO	Baseline (Pretest)
Assessment	Inclusion/Exclusion:	interpersonal communication	Equity (stratified analysis;	SI (n=67): 2.90 (1.49)
a) Randomization –	Inclusion: school staff		focused on one historically	SI(n=07): 2.90 (1.49) SI-P(n=21) = 2.81(1.44)
Unclear	referral on two or more	Parent topics: coping skills and	disadvantaged group)? NO	Comp $(n=57)$: 2.83 (1.65)
b) Concealment –	high-risk	behavior management; also		Follow-up (in months): 12
Unclear	characteristics: (a)	group participation/ sessions	Other outcomes?	SI (n=67): 3.02 (1.48)
c) Blinding – High Risk	high # disciplinary	create parent support system	Substance knowledge and	SI (n=07): $3.02 (1.48)SI-P (n=21)$: 2.95 (1.47)
d) Outcomes – Low risk	incidents, (b) low		attitudes	Comp $(n=27)$: 2.93 (1.47)
e) Selective – Low risk	grades, (c) high #	Intervention/program name:		Absolute change:
e) Selective - LOW HSK	grades, (c) myn #	intervention/program name:		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	unexcused absences	(a) Coping Skills School	Mediators	SI $(0.12 - 0.10) = +0.02$ score points
	(d) drug or alcohol use	Intervention	Personality measures	SI-P $(0.14 - 0.10) = +0.04$ score points
	by most friends or (e)	(b) Coping Skills School + Parent	Behavior ratings	Relative change: NA
	family members, (f)	Intervention		Narrative results: Conditions by time
	low self-esteem (g)		Use of cigarettes, alcohol, and	did not yield significant main effects or
	social withdrawal (h)	Substance(s) focused*	marijuana were measured with	interactions on measures
	experimental alcohol or	Focused on General substance	four dichotomous self-report	Favorable (Yes/No/No effect): No effect
	drug use.	use prevention	items: lifetime incidence,	Statistical significance: NS
			monthly recall, weekly recall,	
	Sample size:	Format:	and 24-hr recall. Frequency of	Outcome: Alcohol use
	Baseline (Pretest total	Face-to-face group w/printed	use of each substance was	Measure: self-reported frequency
	sample): 327	materials (for both intervention	assessed, and for alcohol use,	(lifetime incidence, monthly recall,
	Posttest completion:	programs)	additional items assessed	weekly recall, and 24-hr recall)
	279/327 = 85.3%		amount consumed per occasion	
	Student intervention =	Intervention intensity:	and frequency of drunkenness.	Means (SD):
	91	weekly (for both intervention		Baseline (Pretest)
	Student+ parent = 86	programs)	Outcome scaled means:	SI (n=67): 2.22 (0.92)
	Control = 102	Number of sessions or modules:	Frequency of cigarette use:	SI-P (n=21) = 2.00 (0.95)
		School only: students (10)	Never = I, used to but quit =	Comp (n=57): 2.21 (1.00)
	booster 1-yr f/u:	School + Parent: parents (5),	2, a few a month $-$ 3, a few a	Follow-up (in months): 12
	201/279 = 72.0%	students (10)	week = 4, every day = 5.	SI (n=67): 2.39 (0.95)
		Number of hours per session:	Frequency of alcohol use:	SI-P (n=21) = 2.33 (0.91)
	Loss to f/u:	2hrs (for both intervention	Never — I, a few drinks a year	Comp (n=57): 2.32 (0.99)
	Posttest completion:	programs)	= 2, a few drinks a month $-$ 3,	Absolute change:
	48/327 = 14.7%	Total hours of intervention:	a few drinks a week = 4, every	SI $(0.17 - 0.11) = +0.06$ score points
		School only: 20-hr (students)	day = 5.	SI-P(0.33 - 0.11) = +0.22 score
	booster 1-yr f/u:	School + Parent: 10-hr		points
	78/279 = 28.0%	(parents), 20-hr (students)	Drinking quantity per occasion:	_
				Narrative results: Significant increase
	(Study population data	Interventions and control had	-	over time in frequency of use but
	taken from Table 1-	two 2hr booster session 1-yr post		means showed changes were very
	School Plus Parent	initial intervention.	5. The N for this analysis	small. Increase was due to those who
	Intervention, N=86)		includes only those students	"never" used alcohol at pretest but
	Study population:	Implementer(s)	reporting use of alcohol in the	later did
	Parents and	Project personnel (w/ master's	previous 30 days.	
	Caregivers	degrees in a human service		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Characteristics Age: NR Sex: NR Race/ethnicity: NR Education: High school or less (Mother – 37%, father – 33%) College (Mother – 23%, father – 23%) Graduate school (Mother – 14%, father – 11%) Not sure (Mother – 26%, father – 33%) Employment: NR Income: NR Marital status: NR Other (Family Living Arrangement) Mother and father – 57% Mother only – 33% Father only – 8% Neither – 2% Study Population: Youth Age: average 14.39 Grade level(s): NR Sex: NR Race/ethnicity: white: 71% Black: 28% Other: 1%	Characteristicsdiscipline and experience working w/youth)Intervention duration: 10 weeks for students (in both interventions) 5 weeks for parentsFocus of intervention activities: Both parents/caregivers and youth: Yes Parents only: NoParent and child (either in the same session or not)? Yes Parent and child in the same session/activity? NoComparison group: Not usual care, received part of the treatment, Students attended a structured group that provided attention and focused on self- awareness and building a support group. Participated in 10 small-group sessions conducted once a week, 2 hr per day as well as 2 2-hr booster sessions, during the school day.	 Never — I, once or twice a year — 2, once or twice a week — 4, several times a week — 5, almost every day — 6. The N for this analysis includes only those students reporting use of alcohol in the previous 30 days. Cannabis: Never — 1, a few times a year — 2, a few times a month — 3, a few times a week 4, every day — 5. 	Favorable (Yes/No/No effect): No, but modest increase given high-risk population Statistical significance: $[F(2, 352) =$ 3.20, p < .05 Outcome: Cannabis use Measure: Self-reported frequency (lifetime incidence, monthly recall, weekly recall, and 24-hr recall) Means (SD): Baseline (Pretest) SI (n=63): 1.75 (0.90) SI-P (n=21): 1.43 (0.60) Comp (n=57): 1.53 (0.85) Follow-up (in months): 12 SI (n=63): 1.97 (1.02) SI-P (n=21): 1.83 (1.08) Comp (n=57): 1.83 (1.26) Absolute change: SI (0.22 - 0.30) = -0.08 score points SI-P (0.40 - 0.30) = +0.10 score points Relative change: NA Narrative results: Significant main effects for time were found for frequency for interventions and control Favorable (Yes/No/No effect): No Statistical significance: $[F(2, 340) =$ 7.96, p < .001] with small increases for all groups Outcome: Coping Skills Acquisition
				(assertiveness, social skills,

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study			Outcomes	communication skills, decision- making, and anxiety management)Measure: means from scale based on coping skills acquisition testOverall coping skills means not reported in study. Only individual variables included in coping skills assessment.Baseline (Pretest) Int (n=21):
				Favorable (Yes/No/No effect): No Statistical significance: Yes Condition [Wilks's lambda = .819, F(15, 768) = 3.83, p < *00011]; Time [Wilks's lambda = *874, $F(10, 558) =$ 3.87, p < .00011]; Condition x Time

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				interaction [Wilks's lambda .836, $F(30, 14) = 1.70, P < .01$]
				Outcome: Substance knowledge Measure: knowledge assessed on 30 true-false assessment; attitudes used three parallel scales Baseline (Pretest) Int (n=86): Comp (n=102): Follow-up (in months): 12 Int (n=NR): Comp (n=NR): Absolute change: NR Relative change: NR Narrative results: For substance knowledge, significant gains in knowledge over time for SI and SI-P but no significant main effects or interactions for attitudes toward substance use
				Favorable (Yes/No/No effect): Yes, for substance knowledge but no effect for attitudes Statistical significance: p < .001 (for each smoking, alcohol, cannabis knowledge)
				Outcome: School Achievement Measure: School archival data - GPA from grading period immediately prior to each assessment, school attendance (# of classes skipped and tardies) Disruptive behavior (frequency of detentions, suspensions, expulsion)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline (Pretest) Int (n=86): Comp (n=102): Follow-up (in months): 12 Int (n=): NR Comp (n=): NR Absolute change: NR Relative change: NR Narrative results: Intervention condition - no differential effects. Disruptive behavior - no significant change over time but GPA increased from pretest to follow-up Favorable (Yes/No/No effect): No effect Statistical significance: F(2, 364) = p < .001)
				Outcome: Personality measures (Assertiveness, social anxiety, self- esteem, self-confidence, self- satisfaction, influenceability (smoking and general); rebelliousness, valuing of school, and perceptions of teacher support) Measure: self-reported testing instruments combining a 20-question version of the Assertion Inventory; 5- point Likert-type items; Student Attitudinal Inventory
				Baseline (Pretest) Int (n=86): Comp (n=102): Follow-up (in months): 12 Int (n=NR): Comp (n=NR):

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Absolute change: NR
				Relative change: NR
				Narrative results: Significant main
				effects for Condition on social anxiety
				and school value.
				Means indicate that SI was lower in
				reported social anxiety but SI-P lower
				on school value. No Condition by Time
				interactions, so intervention conditions
				did not differentially affect self-reports
				of personality and social behavior
				Favorable (Yes/No/No effect): No effect
				Statistical significance:
				SI: social anxiety [F(3, 180) - 3.10, p
				< .03]
				SI-P: school value $[F(3, 181) = 2.61, p]$
				< .05]
				Outcome: Behavior ratings
				Measure: School Child Behavior
				Checklist (CBCL) completed by teacher
				Baseline (Pretest)
				Int (n=86):
				Comp (n=102):
				Follow-up (in months): 12
				Int (n=NR):
				Comp (n=NR):
				Absolute change: NR
				Relative change: NR
				Narrative results: Overall no
				significant Condition x Time effects.
				But, over time, males had significant
				declines in Immaturity, Self-
				Destructive, inattentive, and
				Aggressive. Over time females had no

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				significant interaction effects or changes, but there were significant condition effects on Delinquency and Aggressive subscales with those in the School+Parent intervention being significantly higher. Favorable (Yes/No/No effect): No effect Statistical significance: Females condition effects: Delinquency (p < .04), aggressive (p < .02)
Author (Year):	Setting: mix (school	Brief description of	Brief description:	Intent to treat analyses, no differences
Gonzales et al. (2012)	and home)	interventions and content:	W1 – baseline, prior to	between intervention conditions on
(1-yr data)		separate simultaneous groups	intervention	mediators or outcomes at W1.
Gonzales et al. (2014)	Urbanicity: urban	for adolescents and parents,	W2 – post-test, immediately	
Gonzales et al. (2018)		then conjoint family session	after intervention	ANCOVAS (Table 6) and path models
(5-year data)	Eligibility:		W3- 1 year f/u after the	to test mediated intervention effects on
	MA families with 7th	(a) parenting - effective	intervention	W3 outcomes (Table 7).
Location: USA,	grade student	parenting practices, family		
Phoenix, Arizona	attending one of four	cohesion, promotion of school	Self-reported, scaled	Three sets of data analyzed by
	urban schools,	engagement.	adolescence substance use	reporter: adolescents (n=516),
-	adolescent was	(b) adolescent coping - coping	(tobacco, alcohol, marijuana,	mothers ($n=494$), and fathers
2003-2004; 2004-2005,	-	efficacy, academic engagement,	other illegal substances), 6	(n=288). Table 4 Outcome results,
	least one caregiver of	family cohesion	questions, including lifetime	only reported for overall sample and
2009-2014	Mexican descent	(c) conjoint family	use $(0 = no use, and 1 = use)$,	not intervention/control.
	interested in	strengthening sessions - family	total # of substances ever	
Period for Study (total		cohesion, opportunities to	used	Outcome: substance use
2	family willing to be	practice skills		Measure: scaled, Adolescent Sample
months (9-week	randomly assigned to		School district data, scaled	
, i	9-week intervention or	Evening group sessions at	disciplinary actions - total # of	Baseline
12 months and 5 years)	-	adolescents' schools and 2 home	disciplinary actions (e.g.,	Int (n=338): NR
	(control group).	visits (pre-intervention & mid-	suspension, detention) across	Comp (n=178): NR
Beginning fall 7 th grade		program).	9 categories: substance use,	Follow-up (in months): 12
- ending spring 8 th	Urban schools: (a) high		fighting, assault, gang-related,	Int (n=338): NR
grade (recruitment - fall		Families introduced to school	weapons, harassment,	Comp (n=178): NR
7 th grade,	students (69% to	liaison (SL) during 3 rd family		Absolute change: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
enrollment/intervention	82%); (b) English and	group session. Instructed SL	property, disorderly conduct,	Relative change: NR
- spring (9 weeks) 7 th	Spanish speaking	available outside of sessions to	other events.	Narrative results: significant program
grade, f/u in spring 8 th	family's availability	help families apply program skills		effect (d=3.65), lower in intervention
grade)	(25% enrolled in	to address school related	school district data, scaled	than control for those who engaged in
	Limited English	problems	grades - separate letter	high levels (85 th percentile) of baseline
Study Design:	Proficiency classes); (c)		grades, 0 (F) to 4 (A+), for	SU (Table 6). Those who experimented
Individual RCT	similar size (982 to	Intervention/program name:	four classes required for all	with at least 1 substance at baseline,
	1141 students) and	Bridges to High School Program /	students (Language Arts, Math,	the estimated lifetime use at 12-month
CG Suitability:	structure (served 7 th	Projecto Puentes a la Secundária	Social Studies, Science),	f/u was 1.1 substances (intervention)
Greatest	and 8 th graders only);	(Bridges/Puentes)	averaged for overall GPA	compared to 2.18 (control).
	(d) 75% to 85%			Favorable (Yes/No/No effect): Yes
Risk of Bias	students eligible for	Substance(s) focused*	Internalizing and externalizing	Statistical significance: Yes
Assessment	free or reduced	Program content did not specify	symptoms assessed, scaled	(Table 6) significant for intervention X
a) Randomization - Low	lunches.	if substance focus was included.	separately:	baseline (full sample)
b) Concealment - Low			-adolescent reported - Youth	
c) Blinding - Low	Recruitment:	Format: face-to-face group	Self Report (YSR),	Outcome: School disciplinary
d) Outcomes - Low	3 cohorts - 1 st		-mothers and fathers reported	actions
e) Selective - High	semester of each	Intervention intensity: weekly	- Child Behavior Checklist	Measure: scale, total # of disciplinary
	school year, Hispanic	Number of sessions or modules:	Parent Form (CBCL-PF),	actions, adolescent sample
	7 th graders randomly	9	-average of two <i>teacher</i>	, , ,
	selected from school	Number of hours per session:	reports - Child Behavior	Baseline
	rosters. A phone call	2hrs (1.25-hour individual	Checklist Teacher Report Form	Int (n=338): NR
	described intervention	(adolescents/parents), 0.75-hour	(CBCL-TRF).	Comp (n=178): NR
	and determined	– family)		Follow-up (in months): 12
	eligibility. Parents	Total hours of intervention: 18h	Gonzales 2014	Int (n=338): NR
	opted in, indicated	(9 sessions * 2h)	High school dropout: self-	Comp (n=178): NR
	language preference		reported	Absolute change: NR
		Additional components (things	Students responded to the	Relative change: NR
	Inclusion/Exclusion:	outside the sessions/modules)	following item, "Are you	Narrative results: significant main
	above	School liaison (SL) - Latino,	currently attending school, like	effect ($d=0.34$), with fewer Disciplinary
		bilingual masters level prevention	a high school, college,	Actions in intervention than control
	Sample size: (based on	expert, experience working in	vocational or technical school,	(Table 6)
	2012 paper)	schools. Families self-referred or	etc.?" (responses included 0	Favorable (Yes/No/No effect): Yes
	Baseline 516	referred by group leaders if they	"No, I stopped attending, did	Statistical significance: Yes
	Int 338	needed SL help to address a	not graduate" and 1 "Yes/No, I	(Table 6) only for intervention (full
	Control 178	specific school concern, e.g.,	graduated or obtained a GED"),	sample)
		specific school concern, e.g.,	graduated of obtained a GED),	sample)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		class grades, school disciplinary		
	1-yr Follow-up 85%	actions, bullying.		Outcome: GPA
	(439)		Gonzales 2018	Measure: scaled, Adolescent Sample
	Int 83% (282)	SL hired/paid hourly to work	Scale Lifetime AUD (0, no	De estin e
	Control 88% (157)	across schools with all families	diagnosis; 1, yes diagnosis)	Baseline
	1	wanting additional help. SL not	from Diagnostic Interview	Int (n=338): NR
	1-yr Loss to f/u 15%	meant to intervene for families,	Schedule for Children (DSM-IV)	
	(77)	but rather to increase parents'		Follow-up (in months): 12
	Int 17% (56)	and adolescents' efficacy by	Below responses range: 0 (0	Int (n=338): NR
	Control 12% (21)	coaching on using skills taught in	days in the past year) to 9	Comp (n=178): NR
		intervention.	(every day in the past year).	Absolute change: NR
	5 yr follow-up 81%			Relative change: NR
	(420)	Implementer(s)	Alcohol Use: self-reported	Narrative results: significant
	Int 82% (276)	Trained group leaders (GLs) led	During the past year, on how	intervention effect ($d=2.97$, Table 6),
	Control 81% (144)	parent or teen sessions in two-	many days did you have at	adolescents with low baseline GPAs
		person teams (69% Latino/a	least 1 drink of alcohol?	(1.3 (D-) average), had higher GPAs at
	5-yr Loss to f/u 19%	(predominantly MA), 65%		follow-up (2.39 (C+) average)
	Int 18%	bilingual)	Drunkenness: self-reported	compared to the control (1.53 (D)
	Control 19%		During the past year, on how	average)
		Training comprehensive program	many days did you drink	Favorable (Yes/No/No effect): Yes
	Study population:	manual, 45 hours of pre-service	enough to feel pretty high/	Statistical significance: Yes,
	Parents and	training, 3 hours of weekly	drunk?	(Table 6) marginal significance for
	Caregivers (Int +	training, and 2 hours of weekly		intervention X baseline (full sample)
	cont.)	supervision during the	Binge Drinking: self-reported	
	Age: NR	intervention.	During the past year, how	Outcome: Internalizing (mental
	Sex: NR	Across cohorts, GLs received a	often did you have 4 [girls] or	health)
	Race/ethnicity: 100%	median score of 90% correct on	5 [boys] or more drinks	Measure: scaled
		tests of session content prior to	containing any kind of alcohol	
	Education: NR	each session.	in a 2-hour period?	Baseline
	Employment NR			Int (n=338): NR
	Income: 99% low-	Intervention duration: 9-week	Substance(s)*	Comp (n=178): NR
	income		tobacco, alcohol, marijuana,	Follow-up (in months): 12
	(\$42,090.40 (English),	Focus of intervention	and other illegal substances	Int (n=338): NR
	\$32,359.22 (Spanish)	activities:		Comp (n=178): NR
	mean annual household	Both parents/caregivers and	Polysubstance measures? Yes	Absolute change: NR
	income)	youth: Yes		Relative change: NR

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Marital status: NR	Parents only: No	Outcome types	Narrative results: ANCOVAs (Table
	Other		Intentions? NO	6) did not reveal any intervention
	83.5% two-parent	Parent and child (either in the	Initiation? NO	effects on adolescent or mother reports
	families	same session or not)? Yes	Use? YES	of Internalizing. Marginally significant
		Parent and child in the same	SU disorder? YES (Gonzales	(d=0.26) intervention effect on father
	Caregiver participation	session/activity? Yes	2018 only)	report (intervention group lower than
	55.0% Mothers &		Educational outcomes (test	control). Significant (d=2.35)
	fathers	Comparison group:	score; attainment; grade	Intervention x Baseline interaction for
	40.7% mothers only	Low dosage workshop	retention; disciplinary actions;	teacher reporting on child; intervention
	0.8% fathers only	Parents and adolescents jointly	etc.)? YES (GPA, disciplinary	group with high baseline was lower
	3.5% unknown	attended a single 1.5-hour	actions, dropouts (grade	than control at follow-up
	caregiver	evening workshop at the school	retention in Gonzales 2014))	Favorable (Yes/No/No effect): No effect
		on a different night and by	Mental health (depressive	Statistical significance: somewhat
	Caregiver participation	different GLs than intervention.	symptoms; anxiety; etc.)? YES	(Table 6) Not for adolescent or mother,
	overall	Content: handouts on school	(Internalizing and externalizing	but for father report by intervention
	95.7% Mothers (57.5%		symptoms, reported separately	(full sample). Significant for teacher
	w/fathers & 42.5%	school success, and developed	from adolescents, parents,	report by intervention X baseline (full
	only caregivers).	their own family plan to support	teachers)	sample)
	-	middle school success. Workshop	Morbidity? NO	
		did not teach specific parenting	Mortality? NO	Outcome: Externalizing (mental
	caregivers).	or coping skills.	Equity (stratified analysis;	health)
	Primarily language		focused on one historically	Measure: scaled
	47% English 53%		disadvantaged group)? YES	
	Spanish			Baseline
			Other outcomes?	Int (n=338): NR
	Study Population:		School Engagement, Mediators	Comp (n=178): NR
	Youth		(Effective parenting, Family	Follow-up (in months): 12
	Age: 12.3 years		cohesion, Adolescent coping	Int (n=338): NR
	Grade level(s): 7th		efficacy, School engagement)	Comp (n=178): NR
	grade			Absolute change: NR
	Sex: 50.8% females,			Relative change: NR
	49.2% males			Narrative results: ANCOVAs (Table
	Race/ethnicity: 100%			6)
	Mexican American (MA)			mother report - main effect
				significantly (d=0.32) lower in
				intervention.

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Community characteristics: high proportion families eligible for free or reduced-price lunch			father report - significant (d=3.49) Intervention x Baseline interaction; fathers reported lower for intervention adolescents with low baseline than control.
				Significant 3-way (intervention x baseline x language) interaction: adolescent report - Spanish adolescents with higher baseline, intervention group (d=2.96) had higher levels than control. teacher report - English adolescents in intervention group with low baseline significantly (d=3.13) higher than control.
				Favorable (Yes/No/No effect): No Statistical significance: Yes (Table 6) for intervention X baseline, adolescent (significant, Spanish sample), father (significant, full sample), and teacher (marginally significant, English sample). Intervention only - mother (full sample)
				Effect sizes (Table 6) Although small at one-year follow-up, several effects moderated by baseline risk and substantially stronger for high- risk adolescents.
				Mediation path modeling at W3 (Table 7)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Substance use - 3 significant mediators for decreased use in intervention group:
				Mother Positive Reinforcement (full sample), those w/low baseline Positive Reinforcement, Mother Harsh Parenting (Spanish subsample) those w/high baseline Harsh Parenting & w/low baseline SU, Coping Efficacy (Spanish subsample) with low baseline Coping Efficacy. GPAs - 3 significant mediators of Intervention effects for Spanish sample (intervention and control group combined):
				Mother Harsh Parenting (for adolescents w/ high Harsh Parenting & for those w/low GPAs at baseline), Father Monitoring (for adolescents w/high baseline Monitoring), School Engagement (for adolescents low on baseline School Engagement).
				School Disciplinary Actions mediated effect in full sample (intervention and control group combined): <i>Mother Positive</i> <i>Reinforcement</i> (for adolescents whose mothers reported low baseline Positive Reinforcement, w/intervention group having fewer School Disciplinary Actions than control group).

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				5-year post-test data
				(data from 2018 paper)
				Outcome: alcohol use
				Measure: Alcohol use disorder
				Baseline
				Int (n=338): NR
				Comp (n=178): NR
				Follow-up (in months): 60 months
				Int (n=276): NR
				Comp (n=144): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: adjusted beta: -
				0.93 (0.47)
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, 0.047
				Outcome: alcohol use
				Measure: past year alcohol use
				Baseline
				Int (n=338): 8.9%
				Comp (n=178): 6.7%
				Follow-up (in months): 60 months
				Int (n=276): NR
				Comp (n=144): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: adjusted beta -
				0.16 (0.19)
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No, 0.40
				Outcome: alcohol use
				Measure: past year drunkenness

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline
				Int (n=338): 3.3%
				Comp $(n=178)$: 1.7%
				Follow-up (in months): 60 months
				Int $(n=276)$: NR
				Comp $(n=144)$: NR
				Absolute change: NR
				Relative change: NR
				Narrative results: adjusted beta –
				0.17 (0.17)
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No, 0.54
				Outcome: alcohol use
				Measure: past year binge drinking
				Theasarer past year binge armining
				Baseline
				Int (n=338): NR
				Comp (n=178): NR
				Follow-up (in months): 60 months
				Int (n=276): NR
				Comp (n=144): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: adjusted beta –
				0.04 (0.15)
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No, 0.79
				Substance use general;
				Data from Gonzalez 2014 paper
				presented narratively
				The program significantly increased
				school engagement, with school

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				engagement mediating intervention effects on internalizing symptoms, adolescent substance use, and school dropout in late adolescence when most adolescents were in the 12th grade. Effects on substance use were stronger for youth at higher risk based on pretest report of substance use initiation. There were no direct or indirect intervention effects on externalizing symptoms.
Author (Year):	Setting: school	Brief description of	Brief description: Smoking	Logistic regression analysis of smoking
Guilamo-Ramos et al.	classrooms during non-	intervention and content:	behavior. Adolescents were	change
(2010)	school hours	Intervention combined a	askedif they had ever smoked	Analyses focused on posttest-only
		parenting component with a	cigarettes. If they responded	mean and percentage differences
Location: USA, Bronx	Urbanicity: Urban	youth prevention component	"Yes," they were asked if they	between the 2 groups because
and Harlem, New York			had ever smoked cigarettes	covariates (maternal marital status,
City, New York	Eligibility: Mother-	Intervention name: Linking Lives	regularly, i.e., every day for at	maternal education, and adolescent
	adolescent dyads	Health Education Program (which	least 30 days	gender, grade, and ethnicity) were not
Years for Study:	recruited from 6 middle	included Parent component		significant
2004-2007	schools in the Bronx	"Raising Smoke-free Kids" and	Substance(s)*	
	and Harlem	modified student component	Tobacco-cigarette smoking	Not Intention to treat analyses
Period for Study (total	communities of NYC	based on Toward No Tobacco Use		
time in months):		[TNT] school program)	Polysubstance measures? No	Outcome: Ever smoked cigarettes
15months	Recruitment:			Measure: Self-report on scale form
	Telephone recruitment	Substance(s) focused*	Outcome types	
Study Design:	of Mother-adolescent	Tobacco- cigarette smoking	Intentions? No	Baseline
Individual RCT	dyads from school lists		Initiation? No	Int (n=NR): 5.4%
		Format: Intervention	Use? Yes	Comp (n=NR): 5.4%
CG Suitability:	Inclusion/Exclusion:	components tailored to ethnicity	SU disorder? No	Follow-up: 15 months
Greatest	African American or	and urban context of study	Educational outcomes? No	Int (n=NR): 5%
	Latino adolescents in	population	Mental health? No	Comp (n=NR): 10%
Risk of Bias	grades 6 or 7 (a small		Morbidity? No	Absolute change: -5 percentage
Assessment	number of 8 th graders	Parent components	Mortality? No	points
a) Randomization- Low	were accepted)			Relative change: -42% from OR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
b) Concealment- Low		Tailored parent group sessions	Equity: Yes. Study focused on	Narrative results: Odds Ratio ever
c) Blinding– High	Sample size: N=1386	(2) held in school classrooms and	Latino and African American	smoked = 0.58 (95%CI 0.36, 0.94)
d) Outcomes- Low	dyads participated	followed written manual	mother-adolescent dyads	Favorable: Yes
e) Selective -Low	Baseline: 1386 15m			Statistical significance: Yes
	f/u - Inter: 695 dyads	Written manual that focused on	Other outcomes? Yes parental	
	542	effective communication and	practices and communication	Differences by ethnicity and gender
	Comp: 691 dyads 554	parental monitoring strategies for	outcomes	were not statistically significant
	Follow-up(15m): 1096	preventing adolescent tobacco		
	Loss to f/u: 22-23% by	use. The manual was written at		
	arm	4 th grade reading level and		
		consisted of 9 short modules		
	Study population:	written at a fourth grade reading		
	Parents and	level and 2 tobacco related		
	caregivers	homework activities for parents		
	Age: mean 40.1 years	to use at home with their		
	Sex: 100% female	adolescent.		
	(mother)			
	Race/ethnicity:	Booklet for parents to give to		
	Latino 74.2%	their adolescents to work on		
	African American 24%			
	Education:	Youth components		
	Some HS without	Tailored youth group tobacco		
	graduating 24.6%	prevention sessions modified		
	Employment: NR	from TNT school-based program		
	Income: NR	held in school classrooms (focus		
	Marital status: NR	on self-esteem, communications,		
	single head of	refusal skills, tobacco)		
	household 46.9%	Youth activity workbook		
	Other: Born in US:			
	32.9%	Intervention intensity:		
		Number of sessions or modules:		
	Study Population:	Parents: 2 sessions		
	Youth	Youth: 2 sessions		
	Age: mean 12.1 years	Number of hours per session:		
	Grade level(s): 6 th ,7 th ,	Parents 2.5 hrs.		
	8 th	Youth 2.5 hrs.		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: female 50.4% male 49.6%	Total hours of intervention: 5 hrs. parent, 5 hrs. child		
	Race/ethnicity: NR			
	Other: Born in US	Parent Manual had 9 modules		
	75.4%	and 2 homework assignments		
	Community	Telephone booster contacts were		
	characteristics: NR	made at 1 month and 6 months		
		Implementer(s) Not reported		
		for sessions (researchers)		
		Telephone boosters delivered by		
		trained parent volunteers		
		Intervention duration: 2 days		
		plus booster telephone calls		
		Focus of intervention		
		activities: Both		
		parents/caregivers and youth:		
		Yes		
		Parents only: No		
		Comparison group: Parents		
		received sessions about choosing		
		high schools + Youth received		
		the same 2 day tailored modified		
		TNT prevention intervention.		
Author (Year): Hadley	Setting: Home	Brief description of	Brief description: Youth and	Continuous measures were scale
et al. (2016)		intervention and content:	caregiver self-reported	variables that were analyzed using
	Urbanicity: Urban	Family-based HIV prevention	behaviors on standard	independent samples t-tests, with
Location: USA,		Parent-Child	instruments	effect sizes calculated using Cohen's d
Philadelphia, Pennsylvania and	Eligibility: African- American adolescents	Communication/Monitoring DVD and workbook intervention		(small = 0.20, medium = 0.50, and 0.80 = large).
rennsylvania anu	and their caregivers	specifically designed for African		
	and then callegivers	specifically designed for Arricall		

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Providence, Rhode	recruited from low-	American parents and	Measures at baseline, end of	Dichotomous measures were analyzed
Island	income neighborhoods	adolescents	intervention, and 3-month	using Chi square tests for
	and community-based		follow-up	independence and effect sizes were
Years for Study: NR	organizations (CBOs)	Intervention/program name:		calculated using r (small = 0.10 ,
		"Work it Out Together"	Primary instrument	medium = 0.30 , and large = 0.50).
Period for Study (total	Recruitment: Fliers		Adolescent Risk Behavior	
time in months): 1	and presentations at	Substance(s) focused*	Assessment (ARBA): computer-	Effect sizes >0.30 for Cohen's d and
session or 2 within 0.5	local CBOs were the	General. Primary focus was	assisted structured interview	>0.20 for r were considered
months	primary means of	parenting and family practices	designed specifically for use	meaningful
	recruitment.	with content on sexual health	with adolescents to assess their	
Study Design: RCT		promotion and sexual risk	self-reported sexual and drug	Outcome: Adolescent alcohol use
Individual	Inclusion: Family with	behavior reduction	behaviors associated with HIV	Measure: Self-reported lifetime use
	adolescent 13-18 years		infection.	
CG Suitability:	age	Format: Interactive DVD and		Baseline
Greatest	Identified as African	printed workbook for adolescents	Substance(s)*	Int (n=83): 39%
	American	and their parents	Alcohol-lifetime use	Comp (n=87): 45%
Risk of Bias Assessment	Able to speak English	targeted adolescent risk-	Marijuana-lifetime use	Follow-up (in months): 3 months
a) Randomization- High	Exclusion	reduction, improved		Int (n=80): 44%
b) Deviations- Some	Declined to participate	communication, and parental	Polysubstance measures? No	Comp (n=82): 49%
c) Missing data- Some	Self-reported HIV	monitoring		Absolute change: -1 percentage
d) Outcome	infection		Outcome types (Type YES or	points
measurements- Some	Cognitive or behavioral	-One DVD for adolescents	NO next to each outcome)	Relative change: +3.6%
e) Selective- High	inability to give consent	-One DVD for parents/caregiver	Intentions? No	Narrative results: No significant
	, ,		Initiation? No, but 3m lifetime	difference in alcohol use at the 3-
Overall: High	Sample size:	Workbook provided specific	use change approximates	month follow-up.
	Approached: 237	activities for parents and teens to		3-month t/Chi-square=0.40 effect size
	adolescent-caregiver	practice skills taught within the	Use? Yes-lifetime	3 month d/r=-0.05
	dyads		SU disorder? No	Favorable (Yes/No/No effect): No effect
		to improve communication,	Educational outcomes? No	Statistical significance: No
	Baseline: 170	parental monitoring and reduce	Mental health? No	
	adolescent-caregiver	adolescent risk taking.	Morbidity? No	Outcome: Adolescent marijuana
	dyads		Mortality? No	use
	3-month Follow-up:	Intervention intensity:	Equity? Yes (intervention and	Measure: Self-reported lifetime use
	160 (94%)	Number of sessions: 1 or 2	study population specific to	
	Loss to f/u: 6%	Number of hours per session: 3	African-American adolescents	Baseline
	,	hours (one) or 1.5 hours (2)	and caregivers)	Int (n=83): 24%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Study population:	Total hours of intervention:		Comp (n=87): 33%
	Parents and	3 h of total time, which included	Other outcomes?	Follow-up (in months): 3 months
	Caregivers	DVD viewing time, individual	Sexual risk behaviors	Int (n=80): 24%
	Age: 45.18 years	workbook activities, and joint	HIV Knowledge and Sexual	Comp (n=82): 40%
	Sex: Female 81.7%;	workbook activities	Risk Cognitions	Absolute change: -7 percentage
	Male 18.3%		parental monitoring,	points
	Race	Implementer(s): Not reported	parent-adolescent sexual	Relative change: -17.5%
	Black/African-	(researchers) DVD and workbook	communication, and lower	Narrative results: A lower proportion
	American: 85.4%		acceptance of adolescent	of youth randomized to the Work It
	More than one race: NR	Program was delivered with	sexual behavior	Out Together intervention reported
	(presumed 14.6%)	minimal staff support (some		marijuana use at the 3 month follow-
	Ethnicity: Latino 2.4%	assistance with setting up the		up, chi-square = 6.45 , p < 0.05
	Education:	DVD player and managing		Favorable: Yes
	High school graduate:	occasional DVD player		Statistical significance: Yes
	93.9%	malfunctions)		
	Employment: NR			Outcome: Adolescent sexual activity
	Income:	Intervention duration: 2		Measure: Self-report vaginal, anal, oral
	Household income (%	weeks or less		sex
	≤\$30,000): 32.9%			Baseline
	(significantly lower	Focus of intervention		Int (n=83): 41%
	than comparison	activities:		Comp (n=87): 41%
	group)	Both parents/caregivers and		Follow-up (in months):
		youth: Yes		Int (n=80): 45%
	Study Population:	Parents only: No		Comp (n=82): 44%
	Youth			Absolute change: +1 percentage
	Age: 15.46 years	Parent and child in the same		point
	Grade level(s):	session/activity? Yes (both		Relative change: NR
		separate and joint activities)		Narrative results: NR
	47%			Favorable (Yes/No/No effect): No
	Race: Black/African-	Comparison group: DVD on		Statistical significance: No
	American: 73.5%	general health promotion:		
	More than one race:	psychoeducational only and did		Subset analyses of adolescents who
	26.5%	not contain information on		reported sexual activity
	Ethnicity:	monitoring or parent-child		Among adolescents who reported
	Latino 3.6%	communication about sexual and		sexual activity, intervention
		substance use risk but did		adolescents reported greater self-

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Community characteristics:	contain segment on tobacco use "This is Your Brain on Tobacco"		efficacy for using condoms, t (64) = 2.06 , p < 0.05 .
	Population: Urban low income communities in Philadelphia and Providence			A small to medium effect size (r = 0.21) was found for the comparison of sexually active youth reporting sex in the last 90 days, χ^2 [2] = 3.04, p < 0.10.
				There were no other differences in the percentage of youth who reported having engaged in any type of sex
Author (Year):	Setting: Home +	Universal prevention program	Brief description	Two interventions with each
Haggerty et al. (2007)	Community (SA	includes parenting, youth, and	Youth self-reported outcomes	intervention having separate analyses
	intervention); Mixed	family components designed to	for initiation of cigarette,	for African-American and European-
Location: USA, Seattle,	School (PA	prevent substance use and other	alcohol, marijuana and other	American families.
Washington	intervention)	problem behaviors in teens	illegal drug use and sexual	
		transitioning into high school	activity	Intent to treat analysis, the rate of
Years for Study	Urbanicity: urban			change as mean-level differences at 24
(actual years): NR		Two Intervention Arms:	Substance(s)*	months post-test.
	Eligibility: Families	Self-administered with	cigarette, alcohol, marijuana,	
Period for Study (total	w/an African American	Telephone Support (SA) –	other illegal drug use	Overall results indicated no main
time in months): 26.5	(AA) or European			effects for either intervention method,
months	American (EA) 8 th	Workbook (printed	Polysubstance measures (Yes)?	but marginally significant interactions
(2.5 months + 24	grader at home,	materials/activities) and videos	Combined initiation of	with race for both intervention
months)	English primary	to complete as family	cigarettes, alcohol, marijuana,	methods (SA p=0.06, PA p=0.08).
	language		other illegal drugs AND sexual	Results below are stratified post hoc
Study Design:		Telephone support provided by	activity	analyses for both interventions
individual RCT	Recruitment:	trained family consultant for		
	Families with students	motivation and problem-solving	Outcome types	Intervention #1: Self-Administered
CG Suitability:	in the Seattle Public	services	Intentions? NO	with telephone (SA)
Greatest	Schools were sent an		Initiation? YES	Outcome: Combined initiation of
	informational letter.	Parent and Adolescent Group	Use? NO	substance use (cigarettes, alcohol,
Risk of Bias	Paid for completing	(PA) -	SU disorder? NO	marijuana, other illegal drugs) or
Assessment	study interviews and		Educational outcomes? NO	sexual activity

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
a) Randomization-	programs (surveys-	Group face-to-face sessions led	Mental health? NO	Measure: Odds ratio
Unclear	\$15, video	by trained group leaders included	Morbidity? NO	
b) Concealment –	observations - \$50 and	both family, parent-only, and	Mortality? NO	Analysis group: African-American
Unclear	programs up to \$100)	youth-only meetings	Equity? YES, stratified analyses	youth
c) Blinding– High			for all outcomes for recruited	
d) Outcomes- Low	Exclusions:	Workbook and other printed	African-American youth	Baseline
e) Selective –Unclear	Families not planning	materials for home activities		Int (n=32) 0%
	to live in area for the		Other outcomes? Yes	Comp (n=37) 0%
	next 6 months	Telephone reminder each week	Initiation of sexual activity	Follow-up: 24 months
		from group leader	Deliquent and violent behavior	Int (n=32) NR estimated from plot at
	Sample size		Perceptions of drug use harm,	32%
	Baseline: 331 families	Intervention/program name:	Favorable attitudes drug use,	Comp ($n=37$) NR estimated from plot
	Intervention: 107 SA,	Parents Who Care (PWC)		at 60%
	118 PA			Absolute: NR estimated from plot at -
	Control: 106	Substance(s) focused*		28 pct pts
		General (one workbook chapter		Relative: -46.7%
	Started SA program:	involved family rules for drug,		Narrative: Odds ratios indicated the
	99/107 (92.5%)	alcohol, and tobacco use)		chances of initiating sex or substance
	Started PA program:			use were reduced by almost 70%
	92/118 (77.9%)	Format:		(OR=0.31) for AA teens in the SA
		SA- Printed materials w/		compared to controls.
	Follow-up at 2 years	activities checklist, video,		Favorable: Yes
	•	telephone support calls		Statistically significant: Yes but
	92%)	PA- face-to-face group, video,		measure NR
	Intention to treat	printed materials w/ activities,		
	analysis	telephone reminders		Analysis group: European-American
				youth
	Study population:	Intervention intensity:		
	Parents and	SA-weekly, consultants made		Baseline
	Caregivers	16.9 call attempts resulting in		Int (n=41) 0%
	Age: NR	9.7 completed calls.		Comp (n=42) 0%
	Sex: NR	PA- consecutive weekly		Follow-up: 24 months
	Race/ethnicity:	Number of sessions or modules:		Int (n=41) NR estimated from plot at
	African American	SA-62 key activities to complete		57%
	49.2%	PA- 7 sessions plus home		Comp ($n=42$) NR estimated from plot
		activities		at 54%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	European American	Number of hours per session:		Absolute: NR estimated +3 pct pts
	50.8%	SA- average phone calls lasted		Relative: NR estimated +5.2%
	Education:	~10.5 min/week		Narrative: NR
	Parent high school	PA- 1^{st} , 4^{th} , 7^{th} sessions = 2.5 h;		Favorable: No
	diploma	remaining = 2h		Statistically significant: NR presumed
	Total-86.6% (AA	Total hours of intervention:		NS
	78.9% EA 94.0%)	SA- 1hr 45mins (105 mins)		
	Parent college grad	PA- 15.5 hr		Outcome: Cigarette use initiation
	Total-37.6% (AA-13%			Measure: Proportions (frequencies)
	EA-61.4%)	Additional components (things		from post-test
	Employment	outside the sessions/modules)		
	Income (Mean per			Analysis group: African American
	capita):	Childcare reimbursement and		
	Total-\$15,042 (AA-	transportation (cab fare) were		Baseline
	\$7,807 EA-\$21,970)	provided when needed		Int (n=32) 0%
	Marital status (Single			Comp (n=37) 0%
	parent)	Implementer(s)		Follow-up: 24 months
	Total-40.3% (AA-	SA- trained family consultant		Int (n=32) 3.1%
	56.8% EA-24.4%)	(prior clinical experience with		Comp (n=37) 10.8%
	Other: Mean household	families with adolescents)		Absolute difference: -7.7 pct pts NS
	members 4.6	PA- 2 trained group leaders		Relative difference: -71%
		(Typically, one European		Narrative: NR
	Study Population:	American and one African		Favorable: Yes
	Youth	American, prior experience		Statistical significance: No
	Age: mean 13.7	conducting parent or teen		
	Grade level(s): 8 th	workshops)		Analysis group: European-American
	grade (baseline), 10 th			
	longest f/u	Intervention duration:		Baseline
	Sex: 48.6% female;	SA - 10 weeks; PA – 7 weeks		Int (n=41) 0%
	51.4% male			Comp (n=42) 0%
	Race/ethnicity:	Focus of intervention		Follow-up: 24 months
	African American	activities:		Int (n=41) 17.1%
	49.2%	Both parents/caregivers and		Comp (n=42) 19.0%
	European American	youth: Yes		Absolute difference: -1.9 pct pts NS
	50.8%	Parents only: No		Relative difference: -10%
	Other			Narrative: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Community characteristics: NR	Parent and child in the same session/activity? (Yes)		Favorable: Yes Statistical significance: No
		Comparison group: no-treatment control		Outcome: Alcohol use initiation Measure: Proportions (frequencies) from post-test
				Analysis group: African-American
				Baseline Int (n=32) 0% Comp (n=37) 0% Follow-up: 24 months Int (n=32) 12.1% Comp (n=37) 24.2% Absolute difference: -12.1 pct pts NS Relative difference: -50% Narrative: NR Favorable: Yes Statistical significance: No Analysis group: European-American
				Analysis group: European-American Baseline Int (n=41) 0% Comp (n=42) 0% Follow-up: 24 months Int (n=41) 45.9% Comp (n=42) 41.0% Absolute difference: +4.9 pct pts NS Relative difference: +11.9% Narrative: NR Favorable: No Statistical significance: No

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Outcome: Marijuana use initiation
				Measure: Proportions (frequencies)
				from post-test
				Analysis group: African-American
				Baseline
				Int (n=32) 0%
				Comp (n=37) 0%
				Follow-up: 24 months
				Int (n=32) % 22.6%
				Comp (n=37) 27.9 %
				Absolute difference: -5.3 pct pts NS
				Relative difference: -18.9%
				Narrative: NR
				Favorable: Yes
				Statistical significance: No
				Analysis group: European-American
				Baseline
				Int (n=41) 0%
				Comp (n=42) 0%
				Follow-up: 24 months
				Int (n=41) % 25.6
				Comp (n=42) 27.9%
				Absolute difference: -2.3 pct pts NS
				Relative difference: -8.24%
				Narrative: NR
				Favorable: Yes
				Statistical significance: No
				Outcome: Other illegal drug use
				initiation
				Measure: Proportions (frequencies)
				from post-test

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Analysis group: African-American
				Baseline
				Int (n=32) 0%
				Comp (n=37) 0%
				Follow-up: 24 months
				Int (n=32) 4.5%
				Comp (n=37) 2.2 %
				Absolute difference: +2.3 pct pts NS
				Relative difference: +104%
				Narrative: NR
				Favorable: No
				Statistical significance: No
				Analysis group: European-American
				Baseline
				Int (n=41) 0%
				Comp (n=42) 0%
				Follow-up: 24 months
				Int (n=41) 7.0%
				Comp (n=42) 14.0%
				Absolute difference: -7.0 pct pts NS
				Relative difference: -50%
				Narrative: NR
				Favorable: Yes
				Statistical significance: No
				Intervention#2: Parent and
				Adolescent Group (PA)
				Outcome: Combined initiation of
				substance use (cigarettes, alcohol,
				marijuana, other illegal drugs) or
				sexual activity

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Measure: Odds ratio
				Analysis group: African-American youth
				Baseline Int (n=42) 0% Comp (n=37) 0% Follow-up: 24 months Int (n=42) NR estimated from plot 31% Comp (n=37) NR estimated from plot 60% Absolute: NR estimated -29 pct pts Significant Relative: -48.3% Narrative: Odds ratios indicated the chances of initiating sex or substance use were reduced by 75% (OR=0.25) for the AA teens in the PA compared to controls. Favorable: Yes Statistically significant: Yes
				Analysis group: European-American youth
				Baseline Follow-up: 24 months Int (n=42) NR estimated from plot 53% Comp (n=42) NR estimated from plot 54%
				Absolute: NR estimated -1 pct pts Relative: Yinan -1.852% Narrative: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Favorable: No effect Statistically significant: NR presumed NS
				Outcome: Cigarette use initiation Measure: Proportions (frequencies) from post-test
				Analysis group: African-American
				Baseline Int (n=32) 0% Comp (n=37) 0% Follow-up: 24 months Int (n=32) 11.9% Comp (n=37) 10.8% Absolute difference: +1.1pct pts NS Relative difference: +10.2% Narrative: NR Favorable: No Statistical significance: No Analysis group: European-American
				Baseline Int (n=41) 0% Comp (n=42) 0% Follow-up: 24 months Int (n=41) 16.7% Comp (n=42) 19.0% Absolute difference: -2.3 pct pts NS Relative difference: -12.1% Narrative: NR Favorable: Yes Statistical significance: No

Outcome: Alcohol use initiation Measure: Proportions (frequencies) from post-test Analysis group: African-American Baseline Int (n=32) 0% Comp (n=37) 0% Follow-up: 24 months Int (n=32) 22% Comp (n=37) 24.2% Absolute difference: -2.2 pct pts NS Relative difference: -2.2 pct pts NS Relative difference: -2.1 % Narrative: NR Favorable: Yes Statistical significance: No Analysis group: European-American Baseline Int (n=41) 0% Comp (n=42) 0% Follow-up: 24 months Int (n=41) 0% Comp (n=42) 0% Follow-up: 24 months Int (n=41) 36.4% Comp (n=42) 41.0% Absolute difference: -1.2% Narrative: NR Favorable: Yes Statistical significance: No Outcome: Marijuana use initiation Measure: Proportions (frequencies) from post-test
I OII post-test

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Analysis group: African-American
				Baseline
				Int (n=32) 0%
				Comp (n=37) 0%
				Follow-up: 24 months
				Int (n=32) 13.3%
				Comp (n=37) 27.9%
				Absolute difference: -14.6 pct pts NS
				Relative difference: -52.3%
				Narrative: NR
				Favorable: Yes
				Statistical significance: No
				Analysis group: European-American
				Baseline
				Int (n=41) 0%
				omp (n=42) 0%
				Follow-up: 24 months
				Int (n=41) % 34.0%
				Comp (n=42) 27.9%
				Absolute difference: +6.1 pct pts NS
				Relative difference: +21.9%
				Narrative: NR
				Favorable: No
				Statistical significance: No
				Outcome: Other illegal drug use
				initiation
				Measure: Proportions (frequencies)
				from post-test
				Analysis group: African-American
				Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int $(n=32) 0\%$ Comp $(n=37) 0\%$ Follow-up: 24 months Int $(n=32) 1.9\%$ Comp $(n=37) 2.2\%$ Absolute difference: -0.3 pct pts NS Relative difference: -13.6% Narrative: NR Favorable: Yes Statistical significance: No Analysis group: European-American Baseline Int $(n=41) 0\%$ Comp $(n=42) 0\%$ Follow-up: 24 months Int $(n=41) 7.5\%$ Comp $(n=42) 14.0\%$ Absolute difference: -6.5 pct pts NS Relative difference: -46.4% Narrative: NR Favorable: Yes Statistical significance: No
Author (Year): Komro et al. (2008) also Komro et al. (2006)	Setting: School, home, and community (mix) Urbanicity: Urban (city-wide)	interventions and content: - Original Project Northland intervention was adapted for an urban, low-income and	Brief description: Yearly classroom-based surveys to measure alcohol use and intentions, and risk and protective factors	repeated measures were used to test for differences between the
Location: USA, Chicago, Illinois	Eligibility: Schools: Chicago schools with	multi-ethnic population in Chicago	T1 6 th grade (baseline) 2002 T2 6 th grade, spring 2003	intervention and control conditions over time, with regard to the student survey, employing a three-
Years for Study: 2002-2005	grades 5–8, relatively low mobility rates <25%), and 30 or	Parent and Family Family education—four home- based remote sessions per year	T3 7 th grade spring 2004 T4 8 th grade spring 2005	level random coefficients regression model Adjusted for race and gender

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Period for Study: 3.5	more students per	for parents and youth activity	Substance(s)*	Intention to treat analyses
years (30 months or 42	grade.	packets to be completed by	Alcohol	
months)	5	youth with their parents)		Over the three follow-up periods, there
	Students and family:	Family fun events 6 th and 7 th	Polysubstance measures: Yes	were no statistically significant
Study Design: group	Participating students	grade for parents and youth	(multiple drug use including	differences in the
RCT	and families in	Parent postcards (5 in 7 th grade	alcohol, marijuana and	growth rate of the drug use, alcohol
	recruited study schools	and 8 in 8 th grade) for parents	tobacco)	use and alcohol intentions scales
CG Suitability:	in Chicago			between the intervention and control
Greatest		Youth	Outcome types	groups, evidenced by an examination
	Recruitment: Schools	Classroom curricula	Intentions? Yes for alcohol	of the slopes of
Risk of Bias	66 schools were	Peer leadership trainings	Initiation? No	these trajectories in each study
Assessment	recruited and grouped	Youth-planned community	Use? Yes	condition
a) Randomization -	by proximity into study	service projects	SU disorder: No	
Unclear	units. Units were		Educational outcomes: No	Outcome: Alcohol Use
b) Concealment –	matched on ethnicity,	Community-wide	Mental health: No	Measure: Scale; Baseline score and
Unclear	poverty, mobility and	Community organizing	Morbidity? No	growth rate
c) Blinding – High	reading and	and environmental neighborhood	Mortality? No	
d) Outcomes- Low	mathematics test	change		Baseline
e) Selective- Low	scores for		Equity: Yes	Int (n=2501-2538):
	randomization	Intervention intensity:	Tailored and targeted content	Comp (n=3079-3147):
	Inter: 10 units, 29	consecutively	modified for urban, low-	Follow-up (in months): Up to 30
	schools	from 6th to 8th grade	income, multi-ethnic population	months
	Comp: 12 units, 32	Number of sessions:		Int (n=NR): NR growth rate=0.02
	schools	Classroom curricula: 6-10	Other outcomes? Yes	Comp (n=NR): NR growth rate=0.03
		sessions/year x 3 years=18-30	Limited access to alcohol	Absolute change: NR
	Students and families:	Parent education: 4 thirty-minute	Parental involvement	Relative change: NR
	All students and	home-based assignments per	Norms	Narrative results: Growth rates
	families in study	year x 3 years = 12 sessions (6		compared
	schools were included	hours)		Favorable (Yes/No/No effect): No effect
	with consent	Total hours		Statistical significance: X2 = 0.07
				p=0.80 NS
		Intervention/program name:		
	Students who moved	Project Northland Chicago		Outcome: Drug use (including
	between intervention			alcohol, tobacco, and marijuana)
	and control schools	Substance(s) focused*		Measure: Scale; Baseline score and
		Alcohol		growth rate

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sample size: Student			
	cohorts	Implementer(s)		Baseline
	Schools Students	Teachers were trained by		Int (n=2501-2538): 9.28
	6 th Grade 61 4259	university-based project staff to		Comp (n=3079-3147)): 9.48
	8 th Grade 59 3802	implement the classroom		Follow-up: up to 30 months
	The cohort follow-up	curricula		Int (n=NR): NR growth rate =0.05
	rate from baseline to	Trained student peer-leaders		Comp (n=NR): NR growth rate=0.05
	third follow-up was	Research staff		Absolute change: NR
	61%.	Recruited community organizers		Relative change: NR
				Narrative results: Growth rates
	Study population:	Intervention duration: 3 years		compared
	Parents and			Favorable (Yes/No/No effect): No effect
	Caregivers	Focus of intervention		Statistical significance: X2=0.06
	Age: NR	activities:		p=0.82 NS
	Sex: NR	Both parents/caregivers and		
	Race/ethnicity: NR	youth: Yes		Outcome: Alcohol intentions of use
	Education: NR	Parents only: No		Measure: Scale: Baseline score and
	Employment: NR			growth rate
		Parent and child in the same		
	Marital status: NR	session/activity? Yes		Baseline
	Other: NR			Int (n=2501-2538):
		Comparison group: No project		Comp (n=3079-3147):
		interventions, however during		Follow-up: Up to 30 months
		the 3 years of the study, 69%,		Int (n=NR): NR growth rate=0.05
	Age: 12	50% and 39% of the control		Comp (n=NR): NR growth rate=0.05
		schools reported implementing		Absolute change: NR
	-	an alcohol and/or drug		Relative change: NR
		prevention curriculum during the		Narrative results: Growth rates
	50%	6th-, 7th- and 8 th grade years,		compared
	Race/ethnicity:	respectively		Favorable (Yes/No/No effect): No effect
	White 13%			Statistical significance: X2=0.03
	Black 43%			p=0.86 NS
	Hispanic 29%			
	Other 15%			Secondary analyses
				Subset of students present during all
				three intervention years (n=2465):

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Other: Free or reduced-price lunch 72% Community			there was no statistically significant difference in the growth rate of alcohol use or drug use between the intervention and control groups.
	characteristics: Population in Chicago, IL Described as Urban, low-income and multi-ethnic population			Intervention components Association between level of participation in home program and trajectory of drug use statistically significant with higher participation in home programs associated with a lower rate of growth in drug use over time [mean=0.049,(SE) 0.019, Z=- 2.45, P= 0.01].
				The association between level of participation in the home programs and trajectory of alcohol use approached statistical significance, with higher participation in the home programs associated with a lower rate of growth in alcohol use over time (mean=-0.024,SE 0.013, Z=1.86, p=0.06).
Author (Year):	Setting: home	Brief description of	Brief description	ITT analysis
Lavner et al. (2020) Barton et al. (2018) Beach et al. (2016)	Urbanicity: rural	interventions and content: Each session, couples first, then child, then family:	Wave 1: baseline Wave 2: 9-month f/u Wave 3: 17-month f/u	Beach 2016 Outcome: Substance use initiation
Barton et al. (2017)	Eligibility: African American couples (two-	Couple-facilitator: First 60 min	Wave 4: 25-month f/u	Measure self-reported use of cigarettes, alcohol, and marijuana, use
Location: USA, Georgia	parent) in a relationship for 2 years	couple relationship, next 30 min parenting topics	Substance use —youth reported (Monitoring the Future	of any substance in lifetime). Absolute change: NR
Years for Study: 2013	· _		Study) past 3-month	Relative change: NR
- 2017	together, and	Content: specific stressor couples		Narrative : b=-2.25 (SE= 0.64),
(Initial enrollment to 25 f/u)	coparenting African American child (age 9-	experience (e.g., work, racism, finances, extended family).	smoking, alcohol use, heavy drinking, and marijuana.	t=3.54, $p \le .01$; Youth in the ProSAAF group also reported significantly

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
2013-2015 enrollment	14 years) for at least 1	Facilitator guided DVD		greater declines in conduct problems
2015-2017 f/u periods	year. Also, willing to	presentations of program	Summed responses -	and lower levels of substance use
	spend 6 weeks	content, modeling, structured	substance use composite from	initiation than did youth in the control
Period for Study: 50	engaged in program	activities, and discussions of	cigarette smoking (0 (not at	group.
months (from start of	and not planning to	specific topics.	all) to 6 (> 2 packs a day);	
intervention to last	move out of study area		alcohol use, heavy drinking,	Equivalence analyses (Table 2)- no
follow-up 25 months)	during period.	Youth-facilitator: 15-min		differences between ProSAAF and
		individual activity with couple in	6 (30 or more times).	control conditions at W1
Study Design:	Target child must be	different room.		
Individual RCT	African American, but		Depressive symptoms —	Table 3 (Mediated effects - three
	not both parents.	Youth-couple-facilitator: 15-min	Youths reported (20-item	models results below)
CG Suitability:		joint activity (discussion or	Center for Epidemiological	
Greatest	Recruitment: from	game).	Studies-Depression scale (CES-	Model 1, no significant direct effects of
	rural, low-income		D) sample: "how often did you	intervention on child outcomes. Youth
Risk of Bias	communities by mail	Intervention/program name:	feel depressed?" in past week).	whose families participated in
Assessment	and phone via ads	Protecting Strong African		intervention did not differ from control
a) Randomization –	distributed and lists	American Families (ProSAAF)	Summed responses - 0 (Rarely	at Wave 4.
Some concern	that local (16 counties)		or none of the time [0-1 days])	
b) Deviations- Low	schools provided for	Substance(s) focused*	to 3 (Most or all of the time [6-	Model 2: postintervention couple
c) Missing data- Low	grades 4 -6.	General	7 days]). higher scores	functioning at Wave 2 not significantly
d) Outcome			indicating more depressive	associated with child outcomes at
measurements- Low	Inclusion see above	Format: face-to-face, DVD	symptoms (a = .79).	Wave 4.
e) Selective - Low	Exclusion			
	sibling/stepsibling in	Intervention intensity: 1	Substance(s)*	Model 3: Wave 3 parent-child relations
	same grade, family	session/ week	cigarette smoking, alcohol and	predicted several child outcomes at
	enrolled in another	Number of sessions or modules:	marijuana	Wave 4. Positive parent-child relations
	program	6+ 2 booster session		predict lower levels of youths'
		Number of hours per session: 2h	Polysubstance measures? YES	substance use $(B(\beta) =02(11))$, se
	Sample size:	Total hours of intervention: 12h		= 01., p = .02), but not significantly
	Baseline 346		Outcome types (Type YES or	associated with youth depressive
	Int 172	Implementer(s)	NO next to each outcome)	symptoms $(B(\beta) =09(08))$, se =
	Control 174	28 trained facilitators (African	Intentions? NO	.06, p = .15).
		American community members)	Initiation? NO	
	Follow-up 87%		Use? YES	Supplemental Tables S2 (Indirect effect
	(301/346)	Intervention duration:	SU disorder? NO	(IE) analyses):
	Int 79% (136/172)			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Control 95% (165/174) Study population: Parents and	6 consecutive weeks+2 booster sessions Focus of intervention	Educational outcomes (test score; attainment; grade retention; disciplinary actions; etc.)? NO	significant IEs linking intervention to lower levels of substance use (std IE = 003, 95% CI [010 , 001]), through intervening pathways of
	Caregivers (Total)	activities:	Mental health (depressive	positive changes in couple functioning
	Age: 36.6 years	Both parents/caregivers and	symptoms; anxiety; etc.)? Yes,	and more positive parent-child
	women, 39.9 years	youth: Yes	depressive symptoms	relations.
	men (mean)	Parents only: No	Morbidity? NO	
	Sex:		Mortality? NO	
	Females - 94%	Parent and child (either in the	Equity (focused on one	
	biological mothers	same session or not)? Yes	historically disadvantaged	
	Men - 49% biological	Parent and child in the same	group)? YES, African American	
	fathers, 38%	session/activity? Yes		
	stepfathers		Other outcomes?	
	-	Comparison group:	conduct problems, affiliation	
	-	Couples mailed book and	with deviant peers, sexual	
	(2 caregivers (from	accompanying workbook of	onset, self-control	
	different families) not	reasons for enhancing the		
	African American) Education:	couple's relationship, guidelines, examples of communication and		
		problem-solving strategies, and		
		exercises designed to enrich		
	(< 9 grade - master's	relationships.		
	degree)			
	Men - Median high			
	school or GED (< 9			
	grade - doctorate or			
	professional degree)			
	Employment			
	Women: 45% FT, 61%			
	total			
	Men: 65% FT, 74%			
	total			
	Income:			
	51% below 100%			
	federal poverty level,			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	17% between 100%			
	and 150% of level			
	Median monthly			
	income:			
	Women - \$1,220 (SD =			
	\$1,440; range \$1-			
	\$10,000)			
	Men - \$1,375 (SD =			
	\$1,375; range \$1-			
	\$7,500)			
	Marital status: 63%			
	married,			
	9.8 years mean			
	marriage,			
	6.7 years mean living			
	unmarried			
	Other			
	# children in home - 3			
	median (range 1 to 8,			
	mode of 2)			
	Study Population:			
	Youth (Total)			
	Age: 10.9 mean (range			
	9–14)			
	Grade level(s): 4 -6			
	Sex: 47% female			
	(161/346) 53% male			
	(185/346)			
	Race/ethnicity: 100%			
	African American			
	Community			
	characteristics: rural,			
	low-income			
	communities; poverty			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	rates are among the			
	highest in nation and			
	unemployment rates			
	above national average			
Author (Year):	Setting:	Brief description of	Brief description	Intent-to-treat analysis - Family and
Lei et al. 2022	community	interventions and content:	Baseline/pretest - age 17 (2.5	youth demographic characteristics did
		Each meeting: separate,	mo preintervention)	not differ between the intervention and
Related papers: Brody	Urbanicity: rural	concurrent training sessions for	28 mo f/u (ages 18 to 19)	control groups at any assessment point
et al., 2015a	_	parents and youths, joint parent-	60 mo f/u (age 22, blood for	
(subsample analyses)	Eligibility: African	youth session practicing learned	methylation analysis)	Lei 2022 ONLINE SUPPLEMENT
Brody et al., 2021/	American 11th- and	skills		contains Means, standard deviations,
Brody et al., 2012 (28	12th- grade secondary		Lei 2022	and t values for study variables by
month f/u)	schools' student in 6	Parents: taught to provide	Substance use — youth	time and condition $(N = 216)$.
Brody et al., 2010 (17	rural counties in	developmentally appropriate	reported "In the past month,	
month f/u)	Georgia	emotional and instrumental	how many days have you:	Outcome: Substance use
		support, ongoing racial	drunk beer, wine, wine coolers,	Measure: mean (Table S2)
Location: USA, Georgia	Recruitment: school	socialization that included	whiskey, gin, or other liquor;	
	lists and	strategies for dealing with	had three or more drinks of	Baseline
Years for Study:	advertisements in rural	discrimination, occupational and	alcohol at one time; smoked	Int (n= 114): 4.40
2006 - 2010	parts of Georgia	educational mentoring, autonomy	cigarettes, smoked marijuana?"	Comp (n= 102): 4.48
2006-2007		and adult responsibility, and to		Follow-up (in months): 60
(Recruitment) + 2008	Exclusion:	encourage responsible decisions	4 items rated on 6-point scale;	Int (n= 114): 5.19
(Baseline/intervention)	not within the specified	about risk behaviors.	responses summed to form	Comp (n= 102): 5.23
+ 28-month follow-ups	age range or the child		past-month substance use	Absolute change: +0.04 pts
	was not African	Content: curriculum, organized	index. Averaged scores	Relative change: +1.06%
Period for Study : ~52	American	role-playing activities, guided	between ages 18 and 19 to	Narrative results: No significant
months		discussions, answered parents'	form a substance use	direct association of AIM intervention
	Initial study	questions, narrators on	composite at 60-month follow-	with substance use
24 months recruitment	Sample size:	videotapes (family interactions of	up.	Favorable (Yes/No/No effect): No
+ 28 months	Baseline 367	targeted behaviors)		Statistical significance: t-value =
(baseline/intervention/	Int = 187		Full study sample:	-0.543
follow-up)	Control = 180	Youths: develop a future	Brody 2021	
		orientation, to plan to meet	Adolescent Mental Health	Outcome: DNAm-based aging,
Study Design:	28-mo f/u: 89%	goals, to identify people in their	In SAAF-T, depressive	Methylation (GrimAge Index) from
Individual RCT	(327/367)	communities who could help	symptoms assessed using	subset sample

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	28-mo Loss to f/u 11%	them attain goals, coping with	adolescents' reports on the	Measure: mean (Table S2)
CG Suitability:		barriers and racial discrimination,	Center for Epidemiologic	
Greatest	Lei 2022/Brody 2015	self-care strategies.	Studies-Depression scale, long-	Baseline
	(subsample)		term follow-up).	Int (n= 114): NR
Risk of Bias	60 mo Follow-up 216	Content: Videotapes, structured	In AIM, parents reported on	Comp (n= 102): NR
Assessment (ROB2)	Int = 114	activities, role-playing, and group	youths' depression or anxiety	Follow-up (in months): 60
a) Randomization –	Control = 102	discussions.	symptoms with the Child	Int (n= 114):
Some concerns			Behavioral Checklist (baseline,	Comp (n= 102):
b) Deviations – Some	60 mo Loss to f/u (58	Intervention name:	a = .83; long-term follow-up,	Absolute change: NR
concerns/low	unreachable, 92	Adults in the Making (AIM)	a = .86).	Relative change: NR
c) Missing data – Some	refused participation)	program		Narrative results: no significant
concerns/low			Brody 2012	direct association of AIM intervention
d) Outcome	Study population:	Substance(s) focused* General	Alcohol use, self-report, scale -	with AgeAccelGrim
measurements – Low	Parents and		1 (zero) to 7 (40 or more) # of	Favorable (Yes/No/No effect): No
e) Selective – Low	Caregivers	Format (face-to-face [one-on-	times in past 3 months drank	Statistical significance: t-value = -
	Age: 44	one; group], remote [printed	alcohol	.543
Overall bias: Some	Sex: NR	materials; telephone; email;		
concerns	Race/ethnicity: NR	etc.], or both):	Substance use problems, 10-	Brody et al 2012 (at 27.5-month
	Education: mothers,	face-to-face, group	item Minnesota Survey of	follow-up)
	78.7%, completed high		Substance Use Problems. # of	Alcohol use
	school or (GED)	Intervention intensity: weekly	times in past 6 months	Narrative results: Found no
	Employment: average	Number of sessions or modules:	experienced problems with	statistically significant difference
	of 38.5 work hours per	6	substance use. Summed scale -	between participants in the treatment
	week	Number of hours per session: 2h	0 (zero) to 6 (11 or more)	group and participants in the
	Income: median	Total hours of intervention: 12h		comparison group in alcohol use
	\$1,948.25 per month	(6*2h)	Susceptibility cognitions,	
	Marital status: 46.5%		Combined measure for	Substance use problems
	single mothers, 33.2%	Implementer(s)	behaviors and intentions to use	Narrative results: No statistically
	married parents,	Group leaders	alcohol or other substances,	significant difference between
	17.1% separated	AIM group leaders took part in	and peers who use alcohol and	participants in treatment group and in
	mothers, 3.2%	three training sessions over a 4-	other substances.	the comparison group in substance use
	cohabiting partners	day period		problems
	headed		Substance(s)*	
		Intervention duration: 6	Alcohol, tobacco (smoking),	Susceptibility cognitions
	Study Population:	weeks	cannabis	Narrative results: No statistically
	Youth			significant difference between

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Age: 17.7 Grade level(s): 11 th /12 th Sex: 59% female, Race/ethnicity: 100% African American Community characteristics: Sample representative of community: median family income of \$1,948.25 per month; working poor, 42% of participants lived below federal poverty standards, and another 15% lived within 150% of the poverty threshold.	Focus of intervention activities: Both parents/caregivers and youth: Yes Parents only: No Parent and child (either in the same session or not)? Yes Parent and child in the same session/activity? Yes Comparison group: No intervention	Polysubstance measures? Yes Outcome types Intentions? Brody 2012 has a composite measure for youth intention to use and peers using substances Initiation? NO Use? YES, Brody 2012 (Alcohol Use, Substance Use Problems) SU disorder? NO Educational outcomes? NO Mental health (depressive symptoms; anxiety; etc.)? YES, Brody 2021 Morbidity? NO Mortality? NO Equity (stratified analysis; focused on one historically disadvantaged group)? YES Other outcomes? Brody 2010 - Risk (combined sexual behavior and substance use) Behaviors, Impact of Life Stress on Risk Behaviors Lei 2022 - Self-control, GrimAge	participants in treatment group and participants in comparison group in susceptibility cognitions, or behavioral willingness and intentions to engage in risky behavior
Author (Year): Loveland-Cherry et al.	Setting: Home	Brief description of interventions and content:	Brief description: Youth self-reported alcohol	Not intent to treat analysis, used only complete data from 428 adolescents.
(1999) Location: USA, three Midwestern school districts	Urbanicity: Mixed Eligibility:	Universal intervention, family folder of info covered during the intervention (general parenting skills, family functioning, factors specific to alcohol use/misuse)	initiation, use, and misuse Alcohol use (based on Table 2, total sample alcohol use index)	Outcome: Alcohol use Measure: Scale, self-reported total frequency/quantity

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Child attending 1 of 21		Measure: Scale, self-reported	Baseline (pretest), Mean (± SD)
Years for Study	selected elementary	7 th grade booster sessions	total frequency/quantity	Int (n=90): 0.2 ± 0.43 scale points
(actual years):	schools	revised previous components	indicating # of drinks (beer,	Comp (n=338): 0.2 ± 0.65 scale points
Total: mid-January		used for middle adolescents and	wine and liquor) consumed per	Follow-up (in months): 60 months
1992 to spring 1996	Recruitment:	families, with interactive	week over last 12 months	Int (n=90): 0.7 ± 1.58 scale points
	class lists of all grade	activities and less didactic	7-point scale ranging from no	Comp (n=338): 0.8 ± 1.44 scale points
Pretest/intervention:	4 th students in the	material; discussed changes	drinking (0) to 10 or more	Absolute change: -0.1 scale points
mid-January 1992 to	selected schools	associated with school transition	drinks per week (6)	Relative change: NA
mid-March 1992		and normal adolescent		Narrative results: Time = (F =
Posttest I: January to	Inclusion/Exclusion:	development.	Substance(s)*	21.72, 4/421 df,p < .001)
March 1993	Inclusion: students		Alcohol	Time x Condition (F = $4.31 4/421 df$, p
Booster: in fall 1995	reach age 9 by	Intervention/program name:		< .01)
Posttest 4: in spring	specified date in first	Child and Parent Relations	Polysubstance measures? No	Condition X Time X Prior Drinking (F =
1996	half of school year	(CAPR)		5.16, 4/421 df, p < .001)
			Outcome types (Type YES or	Mann-Whitney test
Period for Study: 60	Sample size	Substance(s) focused*	NO next to each outcome)	prior drinkers = 212.5, asymptotic p =
months (methods	Baseline: 892	Alcohol	Intentions? NO	.21 (not significant)
stated 5 years)			Initiation? YES	Favorable (Yes/No/No effect): Yes, for
	Follow-up	Format:	Use? YES, including misuse	no prior drinking, pronounced
Study Design:	Posttest 4: 81%	Face-to-face with printed	SU disorder? NO	differences in less alcohol use if their
Individual RCT	(723/892)	materials	Educational outcomes? NO Mental health? NO	parents in intervention group than control
CG Suitability:	Loss to f/u	Intervention intensity: booster		Statistical significance: Yes
Greatest	Posttest 4: 19%	in 7 th grade	Mortality? NO	Time x Condition - $(p < .01)$, Condition
	(169/892)	Number of sessions or modules:	Equity? NO	X Time X Prior Drinking (no prior
Risk of Bias	()	3	-44.07.000	drinking) - ($p < .001$)
Assessment	Study population:	Number of hours per session: 3hr	Other outcomes? Yes	
a) Randomization –		Total hours of intervention: 9hr	adolescent perceptions of	Outcome: Alcohol initiation
Unclear	Age: NR		parenting behaviors,	Measure: scale self-reported
b) Concealment –	Sex: NR	Additional components (things	parents' disapproval of	frequency/quantity
Unclear	Race/ethnicity: NR	outside the sessions/modules)	adolescent alcohol use,	
c) Blinding – High	Education: NR	2 parent-led family only	adolescent attitudes	Baseline (pretest), Mean (± SD)
d) Outcomes – Unclear	Employment	meetings before next session,		Int (n=79): 0.0 ± 0.19 scale points
e) Selective – High	Income: NR	follow-up telephone calls,		Comp (n=238): 0.1 ± 0.23 scale points
,	Marital status: NR	newsletter		Follow-up (in months): 60 months
	Other			Int (n=79): 0.4 ± 1.11 scale points

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Characteristics Study Population: Youth Age: 9 at pretest Grade level(s): 4 th grade (pretest), 8 th grade (posttest 4)			ResultsComp (n=238): 0.8 ± 1.44 scale pointsAbsolute change: -0.3 scale pointsRelative change: NANarrative results:Mann-Whitney testNo prior drinkers = 9617.5, asymptoticp = .01 (significant)Favorable (Yes/No/No effect): Yes,reduces initiationStatistical significance: YesOutcome: Alcohol misuseMeasure: index score, mean of 8 self-reported items (overindulgence,trouble with family, peers, police, or atschool due to use during previous 12months)Baseline (pretest), Mean (± SD)Int (n=90): 0.1 ± 0.68 score pointsComp (n=338): 0.2 ± 0.69 scorepointsFollow-up: 60 monthsInt (n=90): 0.6 ± 1.53 score pointsComp (n=338): 0.7 ± 1.48 scorepointsAbsolute change: 0 score pointsRelative change: NANarrative results:Time: (F = 17.00, 4/421 df, p < .001),
				No prior drinkers = 10070.5 , asymptotic p = $.04$ (significant)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Prior drinkers = 213.5, asymptotic p = .16 (not significant) Favorable (Yes/No/No effect): Yes, for no prior drinkers, intervention group students reporting minimally lower rates of misuse than control. Mann- Whitney test confirmed intervention group misused alcohol less than control Statistical significance: Yes, significant interactions: (p < .05)
Author (Year):	Setting: Community	Brief description of	Brief description:	No intent to treat analyis
Mahabee-Gittens et al.	(hospital/emergency	interventions and content:	Self-reported:	
(2008)	department)	While child and parent waiting to	"never-smokers" = had never	Chi-Square test or Fisher's Exact test
		receive further care in ED, two	smoked.	for categorical outcome variables, T-
Location: USA, Ohio	Urbanicity: Urban	components delivered in 15-20	"regular smokers" = at least	test or ANOVA for continuous outcome
(Cincinnati)		minutes:	one cigarette in past week.	variables
	Eligibility: Child	(1) verbal instructions on why	"experimenters" = ever	
Years for Study	subjects with a non-	and how to deliver effective anti-	smoked at least one puff of a	Outcome: Tobacco (future
(actual years): May		tobacco messages to child	cigarette	intentions to not smoke)
2003 - May 2004	(e.g., cough, rash, ear	(2) written instructions on a		Measure: proportion (next six months)
	pain) as defined by ED	colorful 4x6 inch magnet card	answering "definitely not" to:	
Period for Study (total	nurses.	including five key steps for	"Do you think you will smoke a	Baseline
time in months): 1		discussing smoking, and key	cigarette in the next 6	Int (n=266): 89.5%
month	Recruitment:	phrases to start conversations	months?"	Comp (n=264): 89.0%
	Participants identified			Follow-up (in months): 1
(1 Day intervention + 1	and approached by	Intervention/program name:	Substance(s)*	Int (n=189): 96.3% (182)
month f/u)	trained clinical research	NR, but pediatric emergency	Tobacco	Comp (n=189): 88.4% (167)
	coordinator (CRC) or	department (ED)-based		Absolute change: +7.40 pct pts
Study Design:	by Principal	intervention	Polysubstance measures? NO	Relative change: +8.37%
Individual RCT	Investigator			Narrative results: Intervention Group
		Substance(s) focused*	Outcome types (Type YES or	more likely to report they would
CG Suitability:	Exclusion: No working	Tobacco	NO next to each outcome)	definitely not smoke (OR: 3.4, 95%
Greatest	telephone number, not		Intentions? YES	CI: 1.4-8.2)
	willing to provide	Format: Parent only	Initiation? YES	Favorable (Yes/No/No effect): Yes
	follow-up, no		Use? YES	Statistical significance: $p = 0.008$

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Risk of Bias	permanent mailing	Intervention intensity:	SU disorder? NO	
Assessment	address, or had been	Number of sessions or modules:	Educational outcomes (test	Outcome: Tobacco smoking
a) Randomization -	previously enrolled;	1 session	score; attainment; grade	(initiation)
High	also, excluded child	Number of hours per session:	retention; disciplinary actions;	Measure: proportion (1-month)-never
b) Deviation- High	subjects who triaged in	15-20 minutes	etc.)? NO	smoked
c) Missing data- Low	urgent or critically ill	Total hours of intervention: 15-	Mental health (depressive	
d) Outcome	category, unable to	20 minutes	symptoms; anxiety; etc.)? NO	Baseline
measurements - Low	complete baseline		Morbidity? NO	Int (n=261): 81.2%
e) Selective - Low	survey because of	Implementer(s)	Mortality? NO	Comp (n=267): 82.4%
	illness, injury, severe	Pediatric health care workers	Equity (stratified analysis;	Follow-up (in months): 1
	developmental delay or		focused on one historically	Int (n=189): 78.3%
	mental retardation	Intervention duration: 1 day	disadvantaged group)? NO	Comp (n=189): 80.4%
				Absolute change: -0.90 pct pts
	Sample size:	Focus of intervention	Other outcomes?	Relative change: -1.16%
	Baseline 540	activities:	Parent-Child Tobacco	Narrative results: NR
	Int 268	Both parents/caregivers and	Communication (child-initiated	Favorable (Yes/No/No effect): No effect
	Control 272	youth: No	and parent to child); Parents	Statistical significance: p=0.3
		Parents only: Yes	have specific anti-smoking	
	Follow-up (1-month)		rules	Outcome: Tobacco Use
	70% (378/540)	Parent and child (either in the		Measure: Proportion (1-month)-
	Int 71% (189/268)	same session or not)? No		regular smokers and experimenters
	Control 69% (189/272)	Parent and child in the same		(calculated/estimated from never
		session/activity? No		smokers)
	Loss to f/u (1-month)			
	30% (162/540)	Comparison group: Parents		Baseline
	Int 29% (79/268)	received no specific instructions		Int (n=261): 18.8%
	Control 31% (83/272)	regarding parent-child tobacco		Comp (n=267):17.6%
		communication.		Follow-up (in months): 1
	Study population:			Int (n=189): 21.7%
	Parents and			Comp (n=189): 19.6%
	Caregivers (Calculated			Absolute change: +0.90 pct pts
	from Table 1			Relative change: +3.90%
	Intervention Data)			Narrative results: NR
	Age: 37.9 mean			Favorable (Yes/No/No effect): No
	Sex: 47% female, 53%			Statistical significance: No
	male			_

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Race/ethnicity: 54.5% (144/264) African American, 45.4% (120/264) Caucasian Education: 47.2% (125/265) completed high school Employment NR Income: NR Marital status: NR Study Population: Youth (Taken from text combines Int+ Cont) Age: 12.7 mean (range: 9-16) Grade level(s): NR Sex: 48% female, 52% male Race/ethnicity: 53.3% African American, 45.4% Caucasian Community characteristics: NR			
Author (Year): Marsiglia et al. 2019a Related papers: Marsiglia et al., 2019 Journal of Substance Abuse Treatment	Setting: School Urbanicity: Urban and Suburban Eligibility: Number (over 100 students in	Brief description of intervention and content: 1) parent-youth condition (PY) vs. the comparison condition (C), (2) parent-only condition (PO) and C, and (3) PY vs. PO.	Adolescents reported the amount and frequency of the use of alcohol, inhalants, cigarettes, and marijuana in the last 30 days	Missingness in the data controlled with multiple imputation (MI) method A generalized estimating equation (GEE) model examined the longitudinal data. Parent only (PO) vs control (C)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	the 7th grade) and	kiR (youth) culturally-based	Substance(s)* Cigarette	Outcome: Any substance use
	proportion of Latino	program to encourage	smoking, alcohol and	Measure: frequency of the use of any
Intervention in the		preadolescents and their	marijuana and inhalants	substance (alcohol, inhalants,
Community	school, the location	classmates to adopt anti-drug		cigarettes, and marijuana in the last 30
	(within the county	attitudes and norms and to	Polysubstance measures? Yes -	days)
Years for Study:	boundary of a major	expand communication skills	any substance	De selle s
2013-2015	metropolitan area in	related to effectively		Baseline
school years	the Southwest of USA),	resisting alcohol and drugs using	Outcome types (Type YES or	Int (n=152): 8%
	and Title 1 funding	the acronym REAL – Refuse,	NO next to each outcome)	Comp (n=176): 10.9%
=	status (federal financial		Intentions? NO	Follow-up (in months): 20 months
months	assistance	and Leave.	Initiation? NO	Int (n=72): 8.6%
	program)		Use? YES	Comp (n=70): 20%
Study Design: Group		Complementary parenting	SU disorder? NO	Absolute change: -8.5pct pts
(Cluster) RCT	Recruitment: With	program to kiR (youth). FPNG	Educational outcomes (test	Relative change: - 41.4%
	coordination from	(parent only) empowers parents	score; attainment; grade	Narrative results: The predicted
CG Suitability:	school staff, the	to assist their youth using the	retention; disciplinary actions;	probability of using substances at wave
Greatest	community partner	REAL strategies, to strengthen	etc.)? NO	4 (20 months f/u) was significantly
	focused recruitment	family functioning and	Mental health (depressive	higher in the C condition compared to
	and enrollment efforts	communication skills, to build a	symptoms; anxiety; etc.)? NO	the PO condition (contrast = 0.127;
Assessment (ROB2)	on Latino families in	parental support network, and to	Morbidity? NO	12.7% higher; Cohen's h =
a) Randomization –	each of the school.	integrate culture into parenting	Mortality? NO	0.369)
Some concerns	Parents were invited by	practices	Equity (focused on one	Favorable (Yes/No/No effect): Yes
b) Deviations - Low	telephone and		historically disadvantaged	Statistical significance: Yes
c) Missing outcome -	invitational flyer to	FPNG (parent only) provides	group)? YES, Latino/Hispanic	
Some concerns	attend an introductory	opportunities to learn from other		Outcome: Alcohol use
d) Outcome	parent information	parents through a variety of	Other outcomes? Substance	Measure: frequency of the use in the
measurements - Low	session	activities, including role playing,	use norms: Personal	last 30 days
e) Selective - Some		small group discussion, and	disapproval of substance use	
concerns	54 eligible schools	reflection exercises	Peer disapproval of substance	Baseline
	21 schools agreed to		use	Int (n=152): 6%
Overall bias: Some	participate in the	Intervention/program name:	Parental disapproval of	Comp (n=176): 8%
concerns	Study 9 schools in C, 5	Families Preparing the New	substance use	Follow-up (in months): 20 months
	schools in PY, and 7	Generation (FPNG), and a youth		Int (n=72): 5.3 %
	schools in PO.	curriculum, keepin' it REAL (kiR)	Substance use norms outcomes	Comp (n=70): 16.2%
			in Marsiglia 2018 Journal of	Absolute change: -8.9 pct pts
	Sample size:	Substance(s) focused*	substance abuse treatment	Relative change: -56.4%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Baseline Total 532	General		Narrative results: Predicted
	24 participants who did		Anti-Drug norms provided in	probability of using alcohol at wave 4
	not receive a free lunch	Format: Group face-to-face	Marsiglia 2019 Journal of	was significantly higher in the C
	at baseline were		Substance Abuse Treatment	condition compared to the PO condition
	excluded from the	Intervention intensity: Weekly		(contrast = 0.102; 10.2% difference;
	sample leaving 508	Number of sessions or modules:		Cohen's $h = 0.36$)
	total participants	Youth kIR 10 lessons		Favorable (Yes/No/No effect): Yes
		Parent FPNG 8 lessons		Statistical significance: Yes
	Baseline (Wave 1)	Number of hours per session: NR		
	Int PY 180	Total hours of intervention: NR		Outcome: Inhalant use
	Int PO 152			Measure: frequency of the use in the
	Control 176	Implementer(s) For youth, regular teachers delivered kiR in		last 30 days
	Loss to f/u Wave 4 (20	the school classroom		Baseline
	months) Total 55.1%	Trained bi-lingual facilitators		Int (n=152): 4.6%
	(280/508)	delivered the		Comp (n=176): 4.6%
		manualized curriculum		Follow-up (in months): 20 months
	Study population:			Int (n=72): 2.8%
	Parents and	Intervention duration: 2 to 2.5		Comp (n=70): 2.3%
	Caregivers	months		Absolute change: +0.5 pct pts
	Age: NR			Relative change: +21.7%
	Sex: NR	Focus of intervention		Narrative results:
	Race/ethnicity: NR	activities:		Favorable (Yes/No/No effect): Yes
	Education: NR	Both parents/caregivers and		Statistical significance: NR
	Employment NR	youth: Yes		
	Income: NR	Parents only: No		Outcome: Cigarette use
	Marital status NR			Measure: frequency of use in the
	Other NR	Parent and child (either in the		last30days
		same session or not)? Yes		
	Study Population:	Parent and child in the same		Baseline
	Youth	session/activity? No		Int (n=152): 3.3%
	Age: 12.6 mean			Comp (n=176): 1.7%
	Grade level(s): 7 th	Comparison group:		Follow-up (in months): 20 months
	Sex: 43.9% female,	Only parents received a		Int (n=72): 2.2%
	56.1% male	comparison curriculum designed		Comp (n=70): 1.5%
		by the community partner		Absolute change: -0.9 pct pts

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Race/ethnicity: 100%	without an alcohol and other drugs prevention focus		Relative change: Narrative results: For cigarette use, there was no significant difference at any wave Favorable (Yes/No/No effect): No effect Statistical significance: NS Outcome: Marijuana use Measure: frequency of the use in the last 30 days Baseline Int (n=152): 3.9% Comp (n=176): 1.1% Follow-up (in months): 20 months Int (n=72): 3.9% Comp (n=70): 5.1% Absolute change: -4.0 pct pts Relative change: -78.4 Narrative results: For marijuana use, there was no significant difference at any wave Favorable (Yes/No/No effect): Yes Statistical significance: NS Parent-youth condition (PY) vs. the comparison condition (C) Outcome: Any substance use Measure: frequency of the use of any substance (alcohol, inhalants, cigarettes, and marijuana) in the last 30 days
				Baseline Int (n=152): 9.8% Comp (n=176): 10.9%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Follow-up (in months): 20 months
				Int (n=110): 14.1%
				Comp (n=70): 20%
				Absolute change: -4.9 pct pts
				Relative change: -21.5%
				Narrative results: The results show
				no significant differences between C and PY
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NS
				Outcome: Alcohol use
				Measure: frequency of the use in the
				last 30 days
				Baseline
				Int (n=152): 6.1%
				Comp (n=176): 8.0%
				Follow-up (in months): 20 months Int (n=110): 12.3%
				Comp (n=70): 16.2%
				Absolute change: -2.0 pct pts
				Relative change: -0.425%
				Narrative results: NR
				Favorable (Yes/No/No effect): No effect
				Statistical significance: NS
				Outcome: Inhalant use
				Measure: frequency of the use in the
				last 30 days
				Baseline
				Int (n=152): 5.9%
				Comp (n=176): 4.6%
				Follow-up (in months): 20 months

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int (n=110): 4.5%
				Comp (n=70): 2.3% Absolute change: +0.9 pct pts
				Relative change: +83.7%
				Narrative change. +05.7 /0
				Favorable (Yes/No/No effect): No
				Statistical significance: NR
				Outcome: Cigarette
				Measure: frequency of the use in the
				last 30 days
				Baseline
				Int (n=152): 4.0%
				Comp (n=176): 1.7%
				Follow-up (in months): 20 months
				Int (n=110): 4.5%
				Comp (n=70): 1.5%
				Absolute change: 0.7 pct pts
				Relative change: 27.5% Narrative results: NR
				Favorable (Yes/No/No effect): No
				Statistical significance: NR
				Outcome: Marijuana use
				Measure: frequency of the use in the
				last 30 days
				Baseline
				Int (n=152): 3.4%
				Comp (n=176): 1.1%
				Follow-up (in months): 20 months
				Int (n=110): 5.5%
				Comp (n=70): 5.1%
				Absolute change: -1.9 pct pts
				Relative change: -65.1%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: NR
				In terms of effect size, the Cohen's h for significant differences were over 0.20 but less than 0.50 indicating small intervention effects.(for those estimates reporting significance)
				Additional inhalant outcomes from Marsiglia 2019 Journal of prevention & intervention in the community
				Overall, inhalant use is extremely $low(M=1.09, SD=0.49)$, with the vast majority of youth in 7th grade reporting no use (95%).
				Parent only (PO) vs control (C) Outcome: Inhalant use Measure: frequency of the use in the last 30 days How many times have you sniffed glue, spray paint, or other inhalants to get high in the past 30 days?" Responses included (1) none, (2) 1–2 times, (3) 3–5 times, (4) 6–9 times, (5) 10–19 times, (6) 20–39 times, and (7) 40 or more times.
				Baseline Int (n=134): 1.11 (0.60) times at 30 days Comp (n=173): 1.06 (0.88) times at 30 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Follow-up (in months): 4 or 5 months
				(W2)
				Int (n=NR): 1.23 (0.31) times at 30 days
				Comp (n=NR): 1.09 (0.48) times at 30
				days
				Absolute change: 0.1 times at 30
				days
				Relative change: 8.1%
				Narrative results: NR
				Favorable (Yes/No/No effect): No effect
				Statistical significance:
				PY <po mean="" scores="" significantly<="" td="" were=""></po>
				different at p<.05.
				Parent and Youth (PY) vs control (C)
				Outcome: Inhalant use
				Measure: frequency of the use in the
				last 30 days How many times have you
				sniffed glue, spray paint, or other
				inhalants to get high in the past 30
				days?" Responses included (1) none,
				(2) 1–2 times, (3) 3–5 times, (4) 6–9
				times, (5) 10–19 times, (6) 20–39
				times, and (7) 40 or more times.
				Baseline
				Int (n=180): 1.11 (0.53) times at 30
				days
				Comp (n=173): 1.06 (0.88) times at 30 days
				Follow-up (in months): 4 or 5 months
				(W2)
				Int (n=NR): 1.03 (0.22) times at 30 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Comp (n=NR): 1.09 (0.48) times at 30 days Absolute change: -0.11 times at 30 days Relative change: -10.2 % Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: Yes PY <po mean="" scores="" significantly<br="" were="">different at p<.05.</po>
Author (Year):	Setting: Mixed (home	Brief description of	Brief description: Youth self-	Intervention effect on likelihood of
Martinez et al. (2022)	for initial assessment	intervention and content: A	reported likelihood of use in	youth substance use from the Tobit
	and telephone contact;	culturally adapted parent	the next 12 months	regression
Location: USA;	community for group	management training preventive	-3 question composite	Intention to treat
Willamette valley,	sessions-research	intervention for Spanish-		
Oregon	center)	speaking Latino parents and their		Outcome: Youth intention to use
		middle-school aged children	baseline; follow-up at research	tobacco
Years for Study: Not	Urbanicity Mixed; rural,	residing in an emerging	center. Computer and audio	Measure: Youth self-reported likelihood
reported	suburban, and urban	immigration context	options. The majority of	of use in the next 12 months
			participants chose to self-	
Period for Study: 6	Eligibility: Hispanic	V/	administer their questionnaires	Baseline
months post baseline	ethnicity, Spanish		through a computer.	Int (n=120): Not reported
(intervention was 4		Intervention/program name:		Comp (n=121): Not reported
months)	in 5, 6,7, or 8 th grade	Nuestras Familias: Andando	Depressive symptoms:	Follow-up: 6-month post baseline
		Entre Culturas	measured by youth responses	Int (n=114): Not reported
Study Design: RCT-			to Center for Epidemiologic	Comp (n=117): Not reported
individual (family)	Recruitment: A	Substance(s) focused*: General	Studies-Depression Scale	Absolute change: NR
	community	substance use focus		Relative change: NR
CG Suitability:	based recruitment		Likelihood of substance use:	Narrative results: Estimate -1.48
Greatest	using direct contact,	Format: Face-to-face group	scaled youth responses to	(95% CI -2.63 to -0.33) p<0.01
	referrals, and flyers,	sessions (15 families); Telephone		Stratified analyses indicated greater
Risk of Bias	brochures and radio	support contact	likely they were to use various	effects among girls (estimate 1.53
Assessment (ROB2)	messages through		target substances,	95%CI 0.05 to 3.01) p<0.01
a) Randomization –	churches, public school	Content was delivered through		Favorable (Yes/No/No effect): Yes
Some	lists, community	short presentations by		Statistical significance: Yes

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
b) Deviations- Low	events, agencies and	interventionists, small group	Academic success: average	
c) Missing data – High	businesses	and/or couple discussion	scaled score of primary	Outcome: Youth intention to use
d) Outcome		of material, and role-plays of	caregiver ratings of youth	alcohol
measurements- Low	Inclusion: Two	parenting techniques.	school subject performance	Measure: Youth self-reported likelihood
e) Selective- Some	parental figures needed		(i.e., five items performance in	of use in the next 12 months
	to agree. Excluded if	Intervention intensity: weekly	math, science, language arts,	
Overall bias: High	not Hispanic, Spanish	Number of sessions: 12	social studies, and other	Baseline
	speaking, with child in	Number of hours per session: 2.5	subjects) and youth homework	Int (n=120): Not reported
	5, 6,7,8 th grade	hours including time for shared	diligence (i.e., three items	Comp (n=121): Not reported
		meal	concerning homework	Follow-up: 6-month post baseline
		Total hours of intervention: 30	completion, interest, and	Int (n=114): Not reported
	Sample size:	hours	quality).	Comp (n=117): Not reported
	445 (37%) of 1213			Absolute change: NR
	families contacted were	Additional components (things	Substance(s)*	Relative change: NR
	eligible	outside the sessions/modules):	Tobacco intentions	Narrative results: Estimate -0.91
		Weekly telephone calls to parents	Alcohol intentions	(95% CI -1.99 to 0.71) p<0.10
	Baseline: 241 (54% of	Meal provided by research team	Marijuana intentions	Favorable (Yes/No/No effect): Yes
	445) recruited families	at each session	Illicit substance intentions	Statistical significance: No
	Intervention: 120	Free childcare during parent		
	families	sessions	Polysubstance measures? YES,	Outcome: Youth intention to use
	Comparison: 121	Homework club activities for	category of illicit substance use	marijuana
	familes	children during parent sessions	intentions	Measure: Youth self-reported likelihood
	Follow-up	Group or private make-up		of use in the next 12 months
	Intervention: 114	sessions offered	Outcome types	
	(95%)		Intentions? YES	Baseline
	Comparison: 117	Incentives were provided for	Initiation? NO	Int (n=120): Not reported
	(96.6%)	assessments (both arms)	Use? NO	Comp (n=121): Not reported
	Loss to f/u: 5%	including transportation	SU disorder? NO	Follow-up: 6-month post baseline
		assistance and child care	Educational outcomes? YES	Int (n=114): Not reported
	Study population:		Mental health: YES	Comp (n=117): Not reported
	Parent or caregivers	Implementer(s): 6 trained	Morbidity? NO	Absolute change: NR
	(mother in 98% of	researcher interventionists	Mortality? NO	Relative change: NR
	families)	(3 men, 3 women) were majority	Equity? YES study focused on	Narrative results: Estimate -0.86
	Age: Mothers 36.05	immigrants, bilingual, with	Hispanic immigrant context and	(95% CI -2.13 to 0.41) NS
	years, fathers 39.02	bachelor's Degree, extensive	measured intervention	Favorable (Yes/No/No effect): Yes
			satisfaction	Statistical significance: No

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: 78% of families	experience working with Latino		
	had two parental	families	Other outcomes? YES	Outcome: Youth intention to use
	figures who		Parent outcomes,	illicit drugs
	participated in the	Intervention duration: 12	Parent assessments of youth	Measure: Youth self-reported likelihood
	study in some way,	weeks	aggression, social problems,	of use in the next 12 months
	while 20% of families		internalizing and externalizing	
	had only a	Focus of intervention	behaviors,	Baseline
	participating mother	activities:	Youth refusal skills	Int (n=120): Not reported
	and 2% had only a	Both parents/caregivers and		Comp (n=121): Not reported
	participating father.	youth: No		Follow-up: 6-month post baseline
	Of the families with two	Parents only: Yes		Int (n=114): Not reported
	participating parental			Comp (n=117): Not reported
	figures, 86% included	Parent and child in the same		Absolute change: NR
	both biological parents.	session/activity? No		Relative change: NR
	Race/ethnicity: 100%			Narrative results: Estimate -1.28
	Hispanic by study	Comparison group: No		(95% CI -2.15 to -0.40) p<0.01
	criteria	additional interventions (services		Favorable (Yes/No/No effect): Yes
	Education: 9 th grade or	as usual)		Statistical significance: Yes
	less: 62% mothers,			
	69% fathers			Outcome: Youth self-reported
	HS or greater: 25%,			depressive symptoms, subset of
	19% fathers			US-born youth
	Employment: Mothers			Measure: CED-S 20 item summation
	63%; Fathers 89%			score
	Income: Parents			
	reported an average of			Baseline
	4.89 persons in each			Int (n=NR): 1.03
	household and a			Comp (n=NR): 1.03
	monthly household			Follow-up: 6-month post baseline
	income of \$1894			Int (n=NR): 1.00
	(SD= \$1083), which			Comp (n=NR): 0.92
	falls below the federal			Absolute change: +0.08 score points
	poverty guideline for a			Relative change: NR
	family of five			Narrative results: Group x Time
	Marital status:			F=0.56 NS, effect size reported as 0.00
	Other:			Favorable (Yes/No/No effect): No effect

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Foreign-born: 96%			Statistical significance: No
	mothers (Mexico 96%),			
	98% fathers (Mexico			Outcome: Youth self-reported
	94%), remaining			depressive symptoms, subset of
	parents born in			foreign-born youth
	Central/South America			Measure: CED-S 20 item summation score
	Study Population:			Score
	Youth			Baseline
	Age: mean 12.28 years			Int (n=NR): 1.05
	Grade level(s): 5, 6, 7,			Comp (n=NR): 0.98
	or 8			Follow-up: 6-month post baseline
	Sex: Female 50%;			Int (n=NR): 0.97
	Male 50%			Comp (n=NR): 1.04
	Race/ethnicity: 100%			Absolute change: -0.14 score points
	Hispanic by study			Relative change: NR
	criteria			Narrative results: Group x time x
	Other:			Nativity F=8.32 p<0.01 effect size
	US-born: 56%			reported as 0.04 (small)
	Foreign-born: 44%			Favorable (Yes/No/No effect): Yes
	(95% born in Mexico)			Statistical significance: Yes
	Community			Outcome: Parent assessment of
	characteristics:			youth academic success
	Recent immigrant			Measure: Average score of 5 item
	context. Spanish-			school subject performance and 3 item
	speaking parents			youth homework diligence
				Baseline
				Int (n=120): 3.96
				Comp (n=121): 4.06
				Follow-up: 6-month post baseline
				Int (n=114): 4.03
				Comp (n=117): 4.08
				Absolute change: +0.05 score points
				Relative change: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: F=0.59 NS effect size based on partial n2 statistic reported as 0.00 Favorable (Yes/No/No effect): No effect Statistical significance: No
Author (Year):	Setting: Community	Brief description of	Brief description: Youth self-	Youth self-reported intentions to use
Martinez et al. (2005)	(sessions held at research center)	intervention and content: Culturally tailored parent	reported likelihood of the youth using tobacco, alcohol, and	substances
Location: USA,		management training	marijuana and other drugs (5pt	ANOVA models including parent years
Oregon, Eugene	Urbanicity: Not	intervention for Latino families	scale simplified to Final scores	in U.S. residency, parent education,
	reported	with middle school youth	reflected whether the youth	youth age, and youth gender as
Years for Study: NR			indicated that he or she was at	covariates.
	Eligibility: Parents	Intervention content was	least somewhat likely to use	
Period for Study:	were Spanish-	culturally tailored through pre-		Outcome: Intention to use tobacco
mean 5.6 months	speaking, had a youth in middle school, were	intervention work with Latino families	next year if offered by one of their best friends.	Measure: At least somewhat likely
Study Design:	in two-parent or			Baseline
Individual RCT	established stepfamily	Intervention/prpgram name:	Substance(s)*	Int (n=37): mean 0.21
	households,	Nuestras Familias: Andando	-Tobacco	Comp (n=36): mean 0.01
CG Suitability:		Entre Culturas" (Our Families:	-Alcohol	Follow-up (in months): mean 5.61
Greatest	Recruitment: Multiple	Moving Between Cultures)	-Marijuana and other drug use	months
	school and community-			Int (n=34): mean 0.07
Risk of Bias	based recruitment	Substance(s) focused*	Polysubstance measures? Yes	Comp (n=32): mean 0.08
Assessment	activities	General	for the category of marijuana	Absolute change: NR
a) Randomization-			and other drug use	Relative change: NR
Unclear	Inclusion/Exclusion:	Format: Weekly group face-to-		Narrative results: $\mu^2 = 0.06$
b) Concealment-	Two-parent family or	face sessions on parent	Academic success: Parent	(moderate)
Unclear	established family with	management training. The	assessment of youth school	Favorable (Yes/No/No effect): Yes
c) Blinding– High	stepfather	intervention focused on parent	subject performance on a 5	Statistical significance: Yes
d) Outcomes- Unclear		empowerment and	point scale	F(1,50)=2.85 p<0.05
e) Selective- Low	Sample size:	parental self-efficacy.		
	314 families eligible;		Depression: Youth self-	Outcome: Intention to use alcohol
	159 screened; 73	Intervention intensity:	assessed Child Depression	Measure: At least somewhat likely
	enrolled	Number of sessions: 12	Inventory score	
	Baseline	Hours per session: 2.5 hours		Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Inter 37 families	(including 1 hour for group meal	Outcome types	Int (n=37): mean 0.08
	Comp 36 families	to encourage social support)	Intentions? Yes	Comp (n=36): mean 0.09
	Follow-up	Total hours of intervention: 30	Initiation? No	follow-up: mean 5.61 months
	Inter 34 families	hours of group sessions	Use? No	Int (n=34): mean 0.15
	Comp 32 families		SU disorder? No	Comp (n=32): mean 0.26
	Loss to f/u: 11%	Implementer(s): Research staff	Educational outcomes? Yes	Absolute change: NR
		with Oregon Social Learning	Mental health Yes (Depression)	Relative change: NR
	Study population:	Center (OSLC) project team	Morbidity? No	Narrative results: µ ² =0.01
	Parents		Mortality? No	Favorable (Yes/No/No effect): No effect
	Age: Mothers 36.38	Intervention duration: 12	Equity? Yes, targeted	Statistical significance: No
	Fathers 39.39 years	weeks	intervention study	
	Sex: 50% female; 50%			Outcome: Intention to use
		Additional components:	Other outcomes? Parent	Marijuana and other drug use
	Race/ethnicity: Latino	Printed materials: Agenda,	practices and communication	Measure: At least somewhat likely
	100%	notebook and home practice	outcomes	
	Education:	assignments in Spanish with text		Baseline
	-	and pictures		Int (n=37): mean 0.28
	mothers; 78% fathers			Comp (n=36): mean 0.12
	HS grad or higher:	Telephone contact: Weekly		Follow-up (in months): mean 5.61
	20% mothers, 13%	contact with each parent		months
	fathers	to review past session material,		Int (n=34): mean 0.06
	Employment: 64%	check on progress with the home		Comp (n=32): mean 0.33
	mothers, 83% fathers	assignment, offer support, and		Absolute change: NR
	Income: Parents	answer questions.		Relative change: NR:
	reported an average			Narrative results : µ ² =0.04 (small)
	annual household	Focus of intervention		Favorable (Yes/No/No effect): Yes
	income of \$21,681.04	activities:		Statistical significance: No;
	(SD \$9,534.75).	Both parents/caregivers and		F(1,50)=2.04, p<0.10
	Marital status: Two-	youth: No		
		Parents only: Yes		Parent assessment of youth
	Mother and stepdad			academic success
	18%	Parent and child (either in the		Int (n=37): mean 3.73
		same session or not)(Yes/No) No		Comp (n=36): mean 3.81
	Study Population:	Parent and child in the same		Follow-up (in months): mean 5.61
	Youth	session/activity? (Yes/No) No		months
				Int (n=34): mean 3.76

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Age: Average 12.74 years old Grade level(s): Middle School Sex: 44% female; 56% male Race/ethnicity: Latino 100% Other: Native born 50% Foreign-born 50% lived in the United States an average of 6.56 years			Comp (n=32): mean 3.73 Absolute change: NR Relative change: NR Narrative results : $\mu^2=0.02$ (small) Favorable (Yes/No/No effect): Yes Statistical significance: No; F(1,50)=0.8, NS Composite substance use measure: Likelihood of tobacco use, F(1, 50) 2.85, p.05. A marginal intervention effect was found for change in likelihood of marijuana and other drug use, F(1, 50) 2.04, p 0.10.
	Community characteristics: NR			Depression scale changes $\mu^2 = 0.16$ (large) A significant three-way interaction between group, time, and youth nativity status was also detected for depression, F(1, 50)= 8.32, p<.01
Author (Year): Mason et al. (2016) Related paper:	Setting: School Urbanicity: NR	Brief description of intervention and content: CSP (parent only) Sessions primary components:	Brief description: Baseline (enrollment & pretest):November/December - April	Intent-to-treat multivariate path analyses, no pattern of statistically significant condition differences across the measures at baseline.
Mason et al., 2015	Eligibility: Iow- income families from	instruction in new skills related to discipline, praise, rationales,		No evidence of differential attrition
Location: USA, Washington, Tacoma	one region of Washington State; above 70% students in	coping, problem solving, and anger management; discussion of short videos on skills; guided	1-year f/u: October <i>2-year f/u:</i> October	across conditions and no robust pattern of selective attrition comparing retained versus attrited families across
Years for Study: November/December 2010 – October 2014	Grades 6-8 received free or reduced-price school lunch	skills practice; reviews and summaries, and homework activities	Substance use: Self-reported adolescents dichotomous (1 = any use, 0 = no use); due to relatively low	a range of socio-demographic characteristics and psychosocial factors over study duration.

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Period for Study: 48	(2010/2011 school	CSP Plus (parent+adolescent)	prevalence rates among early	Due to dichotomous substance use and
months	year)	Same as CSP but added: (a) 2	adolescent participants	school suspensions outcome variables,
		new sessions (before and after		primary analyses done by multivariate
Study Design:	Recruitment: school-	standard CSP sessions) including	School suspension:	path analysis (change in targeted
Individual RCT	based recruitment	adolescents	Self-reported adolescents'	outcomes over time) using weighted
	strategies.		dichotomous (1= suspended at	least squares mean- and variance-
CG Suitability:	Research staff went to	New content: goal setting for	least once, 0= not being	adjusted (WLSMV) estimator in Mplus
Greatest	core classes and gave	parents and teens (for transition	suspended); frequency of being	7.11.
	take home permission	to high school) and guided skills	suspended from school for	
Risk of Bias	slips for parents to	practice in family communication	disciplinary reasons in past	Separate logistic regression analyses
Assessment (ROB2)	sign. Schools aided	and decision-making on	year.	examined CSP and CSP Plus as
a) Randomization - Low	efforts by	opportunities and responsibilities		predictors of each outcome at 1-year
b) Deviations - Low	disseminating notices		Substance(s)*	and 2-year follow-up, with reference to
c) Missing data - Low	and by mailing a copy	Intervention name:	alcohol, tobacco (smoking),	control condition and adjusting for
d)Outcome	of permission slip	Common Sense Parenting (CSP)	cannabis	pretest levels of the outcome.
measurements - Low	directly to families who	Plus program		
e) Selective - High	had not responded		Polysubstance measures? Yes	None of the intervention effects
	previously.	Substance(s) focused* NR		statistically significant (not shown
Overall bias: High			Outcome types	paper, authors cited available on
	Exclusion: NR	Format: face-to-face [group]	Intentions? NO	request).
		printed materials	Initiation? NO	Mediation results do not provide strong
	122 families	Intervention intensity: weekly	Use? YES	evidence of causality since the test of
	(2010/2011 school	Number of sessions or modules:	SU disorder? NO	the second path in the chain is
	year)	6 (CSP), 8 (CSP Plus)	Educational outcomes	correlational and not grounded in
	199 families	Number of hours per session: 2h	(disciplinary actions; etc.)? YES	randomization).
	(2011/2012)	Total hours of intervention:	(school suspensions)	
		12h (CSP), 16h (CSP Plus)	Mental health (depressive	CSP versus control model
	Sample size:	(CSP = 6*2h), (CSP Plus = 8*2h)	symptoms; anxiety; etc.)? NO	Outcome: Polysubstance (alcohol,
	Baseline 321		Morbidity? NO	tobacco (smoking), cannabis)
	Int = 213	Additional components (things	Mortality? NO	Measure: Means (standard deviations)
	CSP = 118	outside the sessions/modules)	Equity (stratified analysis;	any use in past year
	CSP+ = 95	Lottery system used to	focused on one historically	
	Control = 108	encourage and reward	disadvantaged group)? YES	Baseline
		attendance.		Int (n=118): .30 (.46)
	Follow-up 94%		Other outcomes?	Comp (n=108): .27 (.45)
	Loss to f/u 6%	Implementer(s) NR	conduct problems	Follow-up (in months): 24

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Parents and Caregivers (Total) Age: 40.21 years Sex: 83% female, 17% male Race/ethnicity: 48% Caucasian, 26%	Intervention duration: 6 weeks (CSP), 8 weeks (CSP Plus) Focus of intervention activities: Both parents/caregivers and youth: Yes Parents only: No Parent and child (either in the same session or not)? Yes (CSP Plus)		Int (n=118): .38 (.49) Comp (n=108): .36 (.48) Absolute change: -0.01 pts Relative change: -5.56% Narrative results : None of the total intervention effects in these analyses was statistically significant (not shown in paper, authors cited available on request). CSP indirect effects (b1 = 026 [107 , .012] not statistically significant. 1-year follow-up indirect effect not maintained at 2-year follow- up.
	14% Hispanic. Education: 8% less than high	Parent and child in the same session/activity? Yes (CSP Plus)		Favorable (Yes/No/No effect): No Statistical significance: No
		Comparison group: minimal- contact control mailed newsletters with general parenting information		Outcome: Educational outcomes (disciplinary actions involving school suspensions) Measure: Means (standard deviations) at least once in past year Baseline Int (n=118): .26 (.44) Comp (n=108): .30 (.46) Follow-up (in months): 24 Int (n=118): .22 (.41) Comp (n=108): .22 (.41) Absolute change: +0.04 pts Relative change: +13.33% Narrative results: None of the total intervention effects in these analyses was statistically significant (not shown in paper, authors cited available on request).

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	annual household =			CSP indirect effects statistically
	\$28,000-\$31,000,			significant (b = $057 [186,002]$)
	59% received food			on reduced suspensions. Indirect
	stamps.			effects maintained across 1-year & 2-
	Marital status: 46%			year follow-up assessments.
	married, 23%			Favorable (Yes/No/No effect): No
	relationship not			Statistical significance: No
	married, 31% single			
	Other			1-year follow-up:
	73% biological mothers			Substance Use - statistically significant
	14% biological fathers			(b =059 [181,005]) indirect
	13% other (stepparent,			effects on reduced use through
	grandparent)			improved parent-reported child
	60% living with spouse			emotion regulation skills at posttest.
	or significant other			
				School suspensions - statistically
	Study Population:			significant indirect effects reduced
	Youth			suspensions (negative associations, b
	Age: 13.41 years			=071 [195,009]) through
	Grade level(s): 8 th			emotion regulation
	(baseline) to 10 th (2 yr			
	f/u)			CSP Plus versus control model
	Sex: 53% female, 47%			Outcome: Polysubstance (alcohol,
	male			tobacco (smoking), cannabis)
	Race/ethnicity: NR			Measure: Means (standard deviations)
				of any use in past year
	Community			
	characteristics:			Baseline
	3 of 5 schools fed into			Int (n=95): .23 (.42)
	a high school with a 5-			Comp (n=108): .27 (.45)
	year graduation rate of			Follow-up (in months): 24
	52% for class of 2010			Int (n=95): .38 (.49)
				Comp (n=108): .36 (.48)
				Absolute change: +0.06 pts
				Relative change: +20.37%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results : None of the total intervention effects in these analyses was statistically significant (not shown in paper, authors cited available on request). Indirect effects of CSP Plus on substance use (b = 014 [101 , .011]), not statistically significant. (Table 3) Favorable (Yes/No/No effect): No Statistical significance: No
				Outcome: Educational outcomes (disciplinary actions involving school suspensions) Measure: Means (standard deviations) of at least once in past year
				Baseline Int (n=95): .17 (.38) Comp (n=108): .30 (.46) Follow-up (in months): 24 Int (n=95): .21 (.41) Comp (n=108): .22 (.41) Absolute change: +0.12 pts
				Relative change: +38.79% Narrative results : None of the total intervention effects in these analyses was statistically significant (not shown in paper, authors cited available on request).
				indirect effects of CSP Plus on school suspensions (b = .001 [053, .064]) not statistically significant. (Table 3) Favorable (Yes/No/No effect): No Statistical significance: No

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				1-year follow-up: Substance Use - statistically non- significant (b = 029 [131 , .010]) indirect effects on reduced use through improved parent-reported child emotion regulation skills at posttest. School suspensions - statistically non- significant indirect effects negative associations (b = 026 [132 , .012]) through emotion regulation
Author (Year):	Setting: Community	Brief description of	Brief description:	Intent-to-treat analyses
Mason et al. (2021)		intervention and content:	Drug use: 10 drug items	
	Urbanicity: NR	Universal prevention program,	using Saliva Drug Test. Initial	Anxiety and depression outcomes
Location: USA,	-	text-messaging intervention	test by staff, results either	(scaled):
Tennessee, Knoxville	Eligibility: adolescent		positive or negative. At 3-	Intervention effects tested using linear
	participants were: 1)	Adolescent intervention (PNC-	month f/u survey, adolescents	growth models. Differences in growth
Years for Study:	13 to 18 years; 2)	txt):	self-administered mouth	model parameters (intercept, slope)
January 2019 –	spoke fluent English, 3)	Text content: substance use	swabs.	estimated by PNC-txt (versus control).
December 2019	access to a text-	intervention focuses on peer		
(recruitment Jan 2019-	capable phone, 4) no	relations as the primary	Anxiety and depression:	Models conducted for each "outcome,"
May 2019, data	medical conditions that	_	Patient Health Questionnaire 4	separate for adolescents and parents.
collection completed by	would prevent them	Receive personalized, automated,	(PHQ-4) - Measures past 2-	
Aug 2019; intervention	from participating, and	risk reduction and health	week psychiatric symptoms for	Cohen's d effect sizes for intervention
1 month; 3 monthly	5) patients at FQHC	promotion text messages every	2 anxiety & 2 depressions	from model parameters.
f/u)	recruitment site	other day; 16 days of two-way	items. Response range: 0 =	Polysubstance use outcomes: logistic
Devie d feu Churcher f	De envitere en tr	conversations	not at all to $3 =$ nearly every	regression model with clustered
Period for Study: 4	Recruitment:	bandling strong related to asked	day. Total score 0 to 12 (9+ =	standard errors
months (Intervention 1	adolescents from	handling stress related to school,	severe distress increased	Quiteomou Anviotu cumutomo
month, follow up for 3 months; total 4	community partner	peers, and family, self-care,	psychiatric symptoms).	Outcome: Anxiety symptoms Measure: Growth model
	settings, either of near	asking for help, practicing	2 months f/u data - arowth	
months)	first author's	healthy coping skills (e.g., staying active, healthy routines,	3 months f/u data = growth $modeling$ (symptoms over 3	Baseline
	university. Optional	relaxation skills). Individualized	modeling (symptoms over 3	Int (n=34): NR
l				

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study Design:	enrollment for parents	content from baseline responses	months by treatment	Comp (n=35): NR
Individual RCT	of participants.	to several measures (substance	condition)	Follow-up (in months): 3
		use, parent relations, peers,		Int (n=34): NR
CG Suitability:	Exclusion: NR	stress, coping).	Substance(s)*	Comp (n=35): NR
Greatest		"boost" content by self-enrolling	marijuana, cocaine,	Absolute change: NR
	Sample size:	to receive extra automated	amphetamine, opiates,	Relative change: NR
Risk of Bias	Baseline 69	supportive messages at any time	methamphetamine,	Narrative results: intervention group:
Assessment (ROB2)	adolescents,		phencyclidine, barbiturate,	anxiety symptoms decreased ($p =$
a) Randomization -	52 parents	Parenting skills intervention (PP-	benzodiazepine, oxycodone,	0.04),
Some concerns	Int 34 adolescents,	txt):	and buprenorphine	Control group: anxiety increased over
b) Deviations - Low	23 parents	Text content targeted 4		time ($p = 0.051$).
c) Missing data - Low	Control 35 adolescents,	parenting practice skills: parent-	Polysubstance measures? Yes	Small-to-medium Cohen's d effect sizes
d) Outcome	29 par	child communication, parental		anxiety $d =57$. For males,
measurements - Low	ents	monitoring, parental disapproval	Outcome types	intervention effect most strongly
e) Selective - Low		of substance use, and parental	Intentions? NO	(Cohen's d = -1.12) associated with a
	Follow-up	involvement.	Initiation? NO	reduction in anxiety symptoms (Table
Overall bias: Some	94% (65 adolescents)		Use? YES	4).
concerns	98% (51 parents)	Prompts allow free text	SU disorder? NO	Favorable (Yes/No/No effect): Yes
		responses, involve	Educational outcomes (test	Statistical significance: Yes
	Loss to f/u	communicating/reinforcing rules	score; attainment; grade	
	6% (4 adolescents)	and provide ideas for parents to	retention; disciplinary actions;	Outcome: Depression symptoms
	2% (1 parent)	try, explain rationale behind	etc.)? NO	Measure: Growth model
		suggestions, reinforces	Mental health (depressive	
	Study population:	importance of suggestion, opt-in	symptoms; anxiety; etc.)? YES	Int (n=34): NR
	Parents and	feature for additional support.	Morbidity? NO	Comp (n=35): NR
	Caregivers (Total)		Mortality? NO	Follow-up (in months): 3
	Age: 45.6 years	Intervention/program name:	Equity (stratified analysis;	Int (n=34): NR
	Sex: 90.4% female	PNC-txt + P	focused on one historically	Comp (n=35): NR
	9.6% male	Modified version of Peer Network	disadvantaged group)? NO	Absolute change: NR
	Race/ethnicity: 84.6%	Counseling-txt (PNC-txt) and		Relative change: NR
	white, 11.5% Black/	Parenting Practice-text (PP-txt)	Other outcomes?	Narrative results: intervention group,
	African American, 3.8%		adolescent-parent relationship,	depression symptoms decreased ($p =$
	more than one race	Substance(s) focused*	Parenting Skills	0.06) Control group increased over
	Education: 23.1%	illicit and prescription opioid		time for controls ($p = 0.039$).
	bachelor's degree	misuse (POM)		Small-to-medium Cohen's d effect sizes
	Employment NR			depression $d =63$. Females' higher

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Income: NR	Format: mHealth (remote		reduction in depression outcomes
	Marital status: NR	texting), one-on-one		(Cohen's d =84) (Table 4).
	Other			Favorable (Yes/No/No effect): Yes
	36.5% private health	Intervention intensity: 4		Statistical significance: Yes
	insurance	weeks; every other day		
		(averaging 6 texts per day),		Outcome: Polysubstance (any
	Study Population:	optional "boost" content		drug)
	Youth	Number of sessions or modules:		Measure: proportion positive (Table 5)
	Age: 15.2 years	NR		
	Grade level(s):	Number of hours per session: NR		Baseline
	Sex: 67% female 23%	Total hours of intervention: NR		Int (n=34): 20.6%
	male	(16 days total, with 101		Comp (n=35): 11.4%
	Race/ethnicity: 76.8%	intervention texts)		Follow-up (in months): 3
	white, Hispanic/Latino			Int (n=34): 5.9%
	8.7%, Black/African	Additional components (things		Comp (n=35): 5.7%
	American 7.2%, more	outside sessions/modules)		Absolute change: -9.0 pct pts
	than one race 5.8%,	saliva drug screen kits:		Relative change: 77.2%
	other 1.4%	adolescents completed 94% of all		Narrative results: probability of
	Other NR	PNC-txt and parents completed		positive drug test decreased more
		98%. All adolescents and 91%		strongly for intervention group.
	Community (FQHC	of parents reported they tried		Decrease in odds of a positive drug test
	partner)	suggestions.		marginally significant for intervention
	characteristics			group (OR = 0.23, 95% CI: 0.05, 1.13,
	Population 71,500	Implementer(s)		77.1% decrease) but not in control (OR
	patients annually	Automated, personalized		= 0.46, 95% CI: 0.07, 3.10, p = 0.42,
	Race/ethnicity 63.3%	messages based on baseline		54.3% decrease). Over time
	Caucasian/White,	survey responses		intervention by month interaction (b =
	16.3% African			-0.69, p = 0.58) no significant
	American/Black, 15.6%	Intervention duration:		difference in decrease of substance use
	Hispanic/Latino, 18.2%	4 weeks		b/w intervention and control
	either did not report or			Favorable (Yes/No/No effect): Yes
	refused to report their	Focus of intervention		Statistical significance: Yes,
	ethnicity/race	activities:		odds of a positive drug test marginally
	SES (i.e., poverty):	Both parents/caregivers and		significant ($p = 0.07$)
	payer mix of 42%	youth: Yes		
	Medicaid, 17%	Parents only: No		Outcome: Marijuana use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Medicare, 25% self-			Measure: proportion positive
	pay, and 16%	Parent and child (either in the		
	commercial insurance.	same session or not)? Yes		Baseline
	Other NR	Parent and child in the same		Int (n=34): 11.8%
		session/activity? No		Comp (n=35): 5.7%
				Follow-up (in months): 3
		Comparison group: wait-list		Int (n=34): 2.9%
		control condition		Comp (n=35): 5.7%
				Absolute change: -8.90 pct pts
				Relative change -75.42
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NR
				Outcome: cocaine use
				Measure: proportion positive
				Baseline
				Int (n=34): 2.9%
				Comp (n=35): 0%
				Follow-up (in months): 3
				Int (n=34): 0%
				Comp (n=35): 0%
				Absolute change: -2.90 pct pts
				Relative change: -100%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NR
				Outcome: amphetamine use
				Measure: proportion positive
				Baseline
				Int (n=34): 13.5%
				Comp (n=35): 8.6%
				Follow-up (in months): 3

Measure: proportion positive (Table 5 Baseline Int (n=34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=34): 0%	Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Absolute change: +1.0 pct pts Relative change: +57.0% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: NR Note: One person tested positive for remaining outcomes below: Outcome: opiates use Measure: proportion positive Baseline Int (n=34): 2.9% Comp (n=35): 0% Absolute change: -2.90 pct pts Relative change: -2.90 pct pts Relativ					Int (n=34): 5.9%
Relative change: +57.0% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: NR Note: One person tested positive for remaining outcomes below: Outcome: opiates use Measure: proportion positive Baseline Int (n=34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=34): 0% Comp (n=35): 0% Absolute change: -2.90 pct pts Relative change: -2.9% Comp (n=35): 0% Baseline Int (n=-34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=-34): 0%					Comp (n=35): 0%
Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: NR Note: One person tested positive for remaining outcomes below: Outcome: opiates use Measure: proportion positive Baseline Int (n=34): 2.9% Comp (n=35): 0% Absolute change: -2.90 pct pts Relative change: -2.90 pct pts Relat					
Favorable (Yes/No/No effect): Yes Statistical significance: NR Note: One person tested positive for remaining outcomes below: Outcome: opiates use Measure: proportion positive Baseline Int (n=34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=34): 0% Comp (n=35): 0% Absolute change: -100% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: NR Outcome: methamphetamine use Measure: proportion positive (Table 5 Baseline Int (n=34): 2.9% Comp (n=35): 0% Favorable (Yes/No/No effect): Yes Statistical significance: NR Outcome: methamphetamine use Measure: proportion positive (Table 5 Baseline Int (n=34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=34): 0%					_
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remaining outcomes below: Outcome: opiates use Measure: proportion positive Baseline Int (n=34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=34): 0% Comp (n=35): 0% Absolute change: -1.00% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: NR Outcome: methamphetamine use Measure: proportion positive (Table 5 Baseline Int (n=34): 2.9% Comp (n=35): 0% Absolute (Table 5 Baseline Int (n=34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=34): 0%					Statistical significance: NR
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Measure: proportion positive (Table 5 Baseline Int (n=34): 2.9% Comp (n=35): 0% Follow-up (in months): 3 Int (n=34): 0%					Outcome: methamphetamine use
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Follow-up (in months): 3 Int (n=34): 0%					
Int (n=34): 0%					
					Comp $(n=35): 0\%$
Absolute change: -2.90 pct pts					

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Relative change: -100%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NR
				Outcome: phencyclidine use
				Measure: proportion positive (Table 5)
				Baseline
				Int (n=34): 2.9%
				Comp (n=35): 0%
				Follow-up (in months): 3
				Int (n=34): 0%
				Comp (n=35): 0%
				Absolute change: -2.90 pct pts
				Relative change: -100%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NR
				Outcome: barbiturate use
				Measure: proportion positive
				Baseline
				Int (n=34): 2.9%
				Comp (n=35): 0%
				Follow-up (in months): 3
				Int (n=34): 0%
				Comp (n=35): 0%
				Absolute change: -2.90 pct pts
				Relative change: -100%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NR
				Outcome: benzodiazepine use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Measure: proportion positive
				Baseline
				Int (n=34): 2.9%
				Comp (n=35): 0%
				Follow-up (in months): 3
				Int (n=34): 0%
				Comp (n=35): 0%
				Absolute change: -2.90 pct pts
				Relative change: -100%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NR
				Outcome: oxycodone use
				Measure: proportion positive
				Baseline
				Int (n=34): 2.9%
				Comp (n=35): 0%
				Follow-up (in months): 3
				Int (n=34): 0%
				Comp (n=35): 0%
				Absolute change: -2.90 pct pts
				Relative change: -100%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: NR
				Outcome: buprenorphine use
				Measure: proportion positive
				Baseline
				Int (n=34): 2.9%
				Comp (n=35): 0%
				Follow-up (in months): 3

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int (n=34): 0% Comp (n=35): 0% Absolute change: -2.90 pct pts Relative change: -100%
				Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: NR
Author (Year): Mello	Setting: Mix	Brief description of the	Brief description:	Across the types of substances used
et al. (2019)	(Community and Home). Hospital	intervention and content: Electronic parenting skills	Adolescent self-reported use (1) past 3-month use of alcohol	and time points that the survey was administered, there were no significant
Location: USA, 3 sites, most likely northeast	module of the e-	intervention with text messaging support, and standard institutional care,	(Yes/No); and, if alcohol was reported, questions about (2) binge	differences between adolescents in the standard care and intervention groups.
Years for Study: NR	parenting intervention with online access to the full intervention	The intervention consists of online Parenting Wisely modules	alcohol use in the past 3 months (three or more drinks	Outcome: Alcohol Use Measure: Self-reported
Period for Study:	and text messaging at	coupled with text messaging for	for females and four of more	
intervention 3 month; parent 3 month follow-	home	parents of injured adolescents, who reported alcohol or drug use	for males [Yes/No]);	Baseline Int (n=25): 39%
	Urbanicity: Not		(3) being drunk/intoxicated	Comp (n=11):78%
follow-up	reported but likely urban (study pediatric	Intervention name: Parenting Wisely an interactive web-based	due to alcohol in the past 3 months (Yes/No),	Follow-up (in months): 6 months Int (n=17): 53%
Study Design: individual RCT	trauma centers)	parenting program consisting of video scenarios, skills practice,	(4) single question about the past	Comp (n=8): 17% Absolute change: +75 percentage
(Group or Individual)	Eligibility: Recruited medically stable	interactive quizzes, and a parent forum. The program covers	30-day use of marijuana (Yes/No).	points Relative change: +523.5%
CG Suitability:	adolescent (12-17	topics such as alcohol and drugs,	(5) Use of substances	Narrative results: Not significant
Greatest		school and homework problems, delinquency and other problem	other than alcohol or marijuana in the past 6 months	Favorable (Yes/No/No effect): No Statistical significance: Not significant
Risk of Bias		behaviors, and family conflict.	(Yes/No)	
Assessment (ROB2)	test for alcohol or other		(,	Outcome: Binge drinking among
a) Randomization -	drugs with a	Intervention/program name:	Secure web-based assessments	
High b) Deviations - High	consenting parent. English speaking	Parenting Wisely	of outcomes:	Measure: Self-reported past 3m binge alcohol use
c) Missing data - High	parent with text message capabilities	Substance(s) focused* Alcohol or Other Drugs		Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
d) Outcome			Adolescents- baseline, 3m and	Int (n=10): 64%
measurements - Low	Recruitment: Three	Format: Remote, electronic	6m assessments (alcohol and	Comp (n=8): 43%
e) Selective- Some	study pediatric trauma	(web access and text messages)	drug use)	Follow-up (in months): 6 months
	centers recruited	except for one module provided		Int (n=NR): 70%
Overall bias: High	patient-parent dyads	electronically in study hospital	Parent(s)-baseline and 3m	Comp (n=NR): 100%
	from the inpatient		assessment (satisfaction and	Absolute change: -51 pct pts
	trauma services	Intervention intensity:	use)	Relative change: 52.9%
		Number of modules: NR, but		Narrative results: Not significant
	Exclusion:	minimum of 4	Telephone assessments if no	Favorable (Yes/No/No effect): Yes
	Not medically or	Number of hours per module: NR	computer access	Statistical significance: Not significant
	emotionally stable,	but first module was 20min	25\$ gift card for assessment	
	suicide evaluation,	Total hours of intervention: NR	completion	Outcome: Drunk/Intoxicated
	prior evaluation for	(estimate 4x20=80 minutes) plus		Measure: Self-reported being
	drug or alcohol	text messages	Substance(s)*	drunk/intoxicated in the past 3 months
	dependency;		Alcohol	
	incarcerated; parental	Additional components:	Marijuana	Baseline
	abuse, under state	Text messages on parenting	Other substances	Int (n=25): NR
	custody, incarcerated	skills of interest to parent twice		Comp (n=11): NR
		weekly for 12 weeks with	Polysubstance measures	Follow-up (in months): 6 months
	Sample size:	additional linkages	(Yes/No)? No	Int (n=17): NR
	Consented	Online parent forum for		Comp (n=8): NR
	adolescents-parent	questions answered by	Outcome types	Absolute change: NR
	dyads were enrolled	intervention psychologist	Intentions? No	Relative change: NR
	and	Standard care included brief	Initiation? No	Narrative results: Not significant
	assigned to either	alcohol/drug intervention for	Use? Yes	Favorable (Yes/No/No effect): NR
	intervention or	adolescent patients (both arms)	SU disorder? No	Statistical significance: Not significant
	standard care		Educational outcomes? No	
	conditions	Implementer(s): Trauma	Mental health?: No	Outcome: Use of marijuana
	using a 2:1 allocation	center staff recruited patients but	-	Measure: Self-reported past 3 months
	ratio.	intervention developed and	Mortality? No	use of marijuana
		implemented by researchers and	Equity? No	
	91 adolescents were	included a psychologist (for the		Baseline
	eligible	parent forum); electronic	Other outcomes? Yes	Int (n=25): NR
		delivery of intervention	Parents were asked about use	Comp (n=11): NR
	Baseline: 37		of intervention	Follow-up (in months): 6 months
	adolescent-parent			Int (n=17): NR

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	dyads enrolled (1	Intervention duration: 12	Adolescents completed Parental	Comp (n=8): NR
	dropped out)	weeks	Monitoring Questionnaire	Absolute change: NR
	Intervention: 25			Relative change: NR
	Comparison: 11	Focus of intervention		Narrative results: Not significant
	Follow-up	activities:		Favorable (Yes/No/No effect): NR
	Intervention: 17	Both parents/caregivers and		Statistical significance: Not significant
	(68%)	youth: No		
	Comparison: 8 (73%)	Parents only: Yes		Outcome: Use of other substances
	Loss to f/u: 30.5%			Measure: Self-reported use of
		Parent and child (either in the		substances other than alcohol or
	Study population:	same session or not)? No		marijuana in the past 6 months
	Parents and	Parent and child in the same		
	Caregivers	session/activity? No		Baseline
	Age: 42.9 years			Int (n=25): NR
	Sex: 85% female; 15%	Comparison group: Standard		Comp (n=11): NR
	male	clinical care including brief		Follow-up (in months): 6 months
	Race/ethnicity:	intervention for alcohol or drug		Int (n=17): NR
	White: 78%	use for the adolescent by clinical		Comp (n=8): NR
	Black: 0%	staff, but without the parenting		Absolute change: NR
	More than one race:	intervention.		Relative change: NR
	7%			Narrative results: Not significant
	Other race: 11%			Favorable (Yes/No/No effect):
	Don't know: 4%			Statistical significance: Not significant
	Hispanic ethnicity: 22%			
	Education: NR			
	Employment: NR			
	Income: NR			
	Marital status: 56%			
	Other: In the past			
	year, 55% of the			
	parents reported			
	having binged on			
	alcohol at least once,			
	33% had used tobacco,			
	11% had used illicit			
	drugs, and 22% had			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	used prescription			
	medications not as			
	prescribed.			
	Study Population:			
	Youth			
	Age: 15.8 years			
	Grade level(s): NR			
	Sex: Female 25%;			
	Male 75%			
	Race/ethnicity:			
	White: 64%			
	Black: 4%			
	More than one race:			
	11%			
	Other race: 18%			
	Don't know: 4%			
	Hispanic ethnicity: 32%			
	Other: NR			
	Community			
	characteristics: NR			
Author (Year):	Setting: Community	Brief description of the	Brief description: Youth self-	Intent-to-treat random-intercept
Milburn et al. (2012)	and Home (mix)	intervention and content:	reported risk behaviors in the	regression model analyses were
		Study evaluated the efficacy of a	past 3 months	conducted to estimate the impact of
Location: USA,	Urbanicity: Urban and	brief family intervention in		the STRIVE intervention on risk
California, Los Angeles	Suburban (county-wide	5 5	Trained, diverse assessment	behaviors in the 3 months before each
and San Bernadino	mix)	delinquent behaviors among	team conducted computerized	assessment. Gender was controlled for
counties		newly homeless youth	interviews. Audio computer-	in all analyses
	Eligibility: Youth		assisted	
Years for Study:	5 /		self-interviewing was used for	Note: No significant effect was found
2006-2009	home for at least two	on cognitive-behavioral theories,	sensitive measures.	for change between use and non-use
	nights in the past 6	designed to improve families'		for
Period for Study: 12	months, not being	problem-solving and conflict	Substance(s)*	Alcohol
months	away for more than 6	resolution skills	Alcohol	Marijuana

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	months, and having the		Marijuana	Hard drugs
Study Design:	potential to return	Intervention/program name:	Hard drugs defined as cocaine;	Sex behaviors
Individual RCT	home. No current	STRIVE (Support to Reunite,	crack; heroin, amphetamines;	
	abuse or neglect, no	Involve and Value Each Other)	ice/smoked speed,	Outcome: Alcohol frequency of use
CG Suitability:	active psychosis, or no	intervention	nonprescription methadone;	Measure: Number of times in last 3
Greatest	current substance		other opiates, narcotics, or	months
	intoxication.	Substance(s) focused*	painkillers; barbiturates;	
Risk of Bias		General risk behavior	tranquilizers; inhalants; party	Baseline
Assessment	Recruitment: Newly	prevention/modification	drugs; or other drugs.	Int (n=68): 8.5 (SD 25.9)
a) Randomization- Low	homeless youth were			Comp (n=83): 5.5 (SD 11.9)
b) Concealment- Low	recruited from	Format: Face-to-face individual	Polysubstance measures Yes-	Follow-up: 12 months
c) Blinding– High	community-based	family meetings in the home	hard drugs above, no overall	Int (n=NR): 2.3 est from plot
d) Outcomes- High	organizations (e.g.,	Youth and parents participated	consolidated measure	Comp (n=NR): 4.7 est from plot
e) Selective- Low	presentations at			Absolute change: -5.4 times in 3m
	shelters or schools)	Intervention intensity:	Outcome types	Relative change: -68.3%
	and from direct	Number of sessions: 5 weekly	Intentions? No	Narrative results: Effect size=0.38
	recruitment (e.g.,	sessions	Initiation? No	F(1,260)=9.0 p=0.003
	flyers	Number of hours per session:	Use? Yes plus use frequency	Favorable (Yes/No/No effect): Yes
	advertisements)	1.5-2 hours	SU disorder? No	Statistical significance: Yes
		Total hours of intervention: 7.5-	Educational outcomes? Yes but	
	Inclusion/Exclusion:	10 hours	skipped class consolidated with	Outcome: Marijuana frequency of
	Youth and family		12 non-school behaviors	use
	consent to participate	Additional components (things	Mental health: No	Measure: Number of times in last 3
	required	outside the sessions/modules)	Morbidity? No	months
		Yes	Mortality? No	
	Sample size:	Training for facilitator	Equity? Yes. Intervention	Baseline
	Baseline: 151 youth	Facilitator manual	targeted to high-risk youth	Int (n=68): 9.9 (29.0)
	+families		with current or recent	Comp (n=83): 11.6 (25.1)
	6m follow-up: 87	Implementer(s)	homelessness in Southern	Follow-up: 12 months
	(58%)	Trained facilitators led family	California (Hispanic youth	Int (n=NR): 10.4 est from plot
	12m Follow-up: 69	sessions following manual	66.2%)	Comp (n=NR): 6 est from plot
	(46%)			Absolute change: +6.1 times in 3
	Loss to f/u: 54%	Intervention duration: 5	Other outcomes? Yes	months
		weeks	Sexual risk behaviors	Relative change: +103.1%
			Delinquent behaviors	Narrative results: Effect size -0.40 F(1, 259)=13.1 p<0.001

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Study population:	Focus of intervention		Favorable (Yes/No/No effect): No
	Parents and	activities:		Statistical significance: Yes
	Caregivers Overall	Both parents/caregivers and		
	Age: NR	youth: Yes		Outcome: Hard drugs frequency of
	Sex: NR	Parents only: No		use
	Race/ethnicity: NR			Measure: Number of times in last 3
	Education: NR	Parent and child in the same		months (combined measure)
	Employment: NR	session/activity? Yes		
	Income: NR			Baseline
	Marital status: NR	Comparison group: Standard		Int (n=68): 2.5 (9.4)
	Other: NR	care provided by referring		Comp (n=83): 2.8 (6.6)
		agencies. Information and		Follow-up: 12 months
	Study Population:	referrals to existing services.		Int (n=NR): 0.2
	Youth			Comp (n=NR): 1.5
	Overall			Absolute change: -1.0 times in last 3
	Age: mean 14.8 years			months
	Grade level(s): NR			Relative change: -85.1%
	Sex: Female 66.2%;			Narrative results: effect size 0.13
	male 33.8%			F(1,259)=16.5 p<0.001
	Race/ethnicity:			Favorable (Yes/No/No effect): Yes
	Hispanic: 61.6%			Statistical significance: Yes
	White: 11.3%			
	African-Amer 20.5%			Sexual risk-taking: A significant
	Other, mixed 6.6%			effect was found for number of
	Other-Sexual			partners. No significant intervention
	orientation			effect was found for whether the
	Heterosexual			adolescent had been sexually active,
	90.1%			whether the adolescent had
	Bisexual, gay, lesbian			unprotected sex, or for the number of
	9.9%			times the adolescent had sex.
	Community			Delinquent behaviors: A significant
	characteristics: NR			difference was found between
				intervention and control participants in
				number of delinquent behaviors.

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				(note skipped class was one of 13 behaviors in this consolidated outcome)
Author (Year):	Setting: Community	Brief description of	Brief description: Self-	ITT analysis
Murry et al. (2019)		interventions and content:	reported data at	Structural equation modeling compares
Location: USA,	Urbanicity: Rural	Adapted SAAF program for	Posttest: [M= 14.5 (4.4) mo	ITT improvements in parenting and
Tennessee		computer-based delivery for rural	after pretest]	youth risk factors from pretest to
	Eligibility:	African American families,	Long-term follow-up (LTFU):	posttest, and reductions in sexual risk
Years for Study:	African American sixth	researched computers usage in	[M= 22.6 (3.7) mo after	behavior and substance use from
Summer 2009-Fall	graders and their	local communities.	posttest or 37.1 mo after pre-	pretest to long-term follow-up
2012	primary caregivers		test].	
		Similar content in each		At baseline, no group differences
Period for Study: 37.1	Recruitment:	interactive intervention =	Intentions: 8-item Substance	significant at p<= .05
month (pre-test+ last	Families from lists of	concurrent parent and youth	Intention (1) "do you plan to	
f/u)	6th-grade African	sessions, joint family session.	use marijuana in next year?"	Technology
post-test: 14.5 months;			(2) "how likely is it that you	Outcome: Intentions
long term follow-up:	provided by middle	Technology, "highway to	will use marijuana in next	Measure: scale, mean (SD)
22.6 months	schools in five rural	success" session: discussion	year?"	
	counties in Tennessee.	activities, customizable avatars,	<i>Response scale:</i> "Plan" = 1	Baseline (Table 1)
Study Design:	Letter mailed to	topics in off ramps and side	(definitely no) to 4 (definitely	Int (n=141): 1.0 (0.1)
Individual RCT	parents/guardians and	streets to illustrate associations	yes), "Likely" = 1 (not at all	Comp (n=136): 1.1 (0.3)
	community liaison	between choices and	likely) to 4 (very likely).	Follow-up (in months): 14.5 mo
CG Suitability:	contracted families by	consequences	higher scores = greater intent	(posttest)
Greatest	phone or home visit		to engage in risk.	Int (n=): NR
		Concurrently worked 45-min on		Comp (n=): NR
Risk of Bias	Inclusion/Exclusion:	separate computers, TIA	Substance use: range of	Absolute change: NR
Assessment (ROB2)	adult and youth	escorted youth to parent's	substances; 28-item Monitoring	-
a) Randomization - Low	excluded if either did	computer to complete 45-min		Narrative results: significant decline
b) Deviations- Low	not speak English.	family session, which had 3-min	you ever used marijuana?"	in behavioral intent to engage in risk
c) Missing data- Low		questions/discuss topic for	higher scores = greater	behaviors from baseline to posttest
d) Outcomes	Sample size:	parents and children	engagement in risky behaviors.	(b=12; 95% CI=.20,01).
measurement - Low	Baseline - 418			Favorable (Yes/No/No effect): Yes
e) Selective – High	Int - 282	Small in-person groups:	Youth risk behavior score:	Statistical significance: $p=.04$
	Technology-based -		combine substance use and	Outcome: Youth risk behavior
Overall bias: High	141			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
5	ntrol- 136		sexual risk behavior due to small sample size at f/u period.	Measure: combined scale (Combines substance use and sexual risk) Absolute change: NR
	llow-up – 81%		Substance(s)*	Relative change: NR
Int	z – 81% (229/282)	Parent sessions - universally adaptive parenting practices,	Alcohol, cigarettes, cocaine, marijuana, heroin, ecstasy,	Narrative results: significant
127		positive parenting (communication, establishing	methamphetamines, huffing, hallucinogens, or prescription	decrease in risk behavior over time (b= 17; 95% CI=31,04).
Cor	oup-based - 102 ntrol – 79% 08/136)	rules about risk behaviors, monitoring) and racially specific parenting	Polysubstance measures? Yes	Favorable (Yes/No/No effect): Yes Statistical significance: p= .04
	ss to f/u - 19%	Youth sessions - universal (e.g.,	Outcome types Intentions? YES	In-person Group Outcome: Intentions
(81	1/418)	risk resistance skills and future orientation) and culturally	Initiation? NO Use? YES	Measure: scale, mean (SD)
tecl		specific content (dealing with racism).	SU disorder? NO Educational outcomes (test	Baseline (Table 1) Int (n=141): 1.1 (0.3)
	ntrol – 21% 8/136)	Intervention/program name:	score; attainment; grade retention; disciplinary actions;	Comp (n=136): 1.1 (0.3) Follow-up (in months): 14.5 mo
Stu		Pathways for African Americans Success (PAAS)	etc.)? NO Mental health (depressive	(posttest) Int (n=): NR
Pai	rents and	Substance(s) focused*	symptoms; anxiety.)? NO Morbidity? NO	Comp (n=): NR Absolute change: NR
Age		General	Mortality? NO Equity (stratified analysis;	Relative change: NR Narrative results: (b= .03)
ma	ale	Format Technology: face-to-face [one-	focused on one historically disadvantaged group)? NO	Favorable (Yes/No/No effect): No effect
Am	nerican	on-one & group] In-person: face-to-face [group]	Other outcomes?	Statistical significance: NR
con	mpleted high school	Intervention intensity: both	Youth Behaviors (Affiliation with Deviant Peers)	Outcome: Substance Use Measure: scale, mean (SD)
em	nployed, 40hr per	weekly Number of sessions or modules:		
	come: 56% income equate to meet their	Number of sessions or modules: both 6 Number of hours per session: Technology - 1.5h	Parenting Behaviors (supportive parent-youth relationship, adaptive racial socialization, communication	Baseline (Table 1) Int (n=141): 0.4 (0.8) Comp (n=136): 0.5 (1.3)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	needs; 14% received	In-person - 2h	about sex, clear	Follow-up (in months): 37.1 mo (after
	public assistance.	Total hours of intervention:	communication of rules and	pre-test)
	Marital status:	Technology - 9hr	expectations on substance use)	Int (n=): NR
	50% single parents,	In-person - 12h		Comp (n=): NR
	37% married			Absolute change: NR
	Other	Additional components (things		Relative change: NR
	13% caregiver	outside the sessions/modules)		Narrative results: NR
	grandparents	Families received \$25 per		Favorable (Yes/No/No effect): Yes
	2.7 avg children	session; research staff sent a		Statistical significance: NR
	50% owned their own	meeting schedule and		
	home	availability, and follow-up call to		Outcome: youth risk behavior
		confirm attendance.		Measure: combined scale (Combines
	Study Population:			substance use and sexual risk)
	Youth	Implementer(s)		Absolute change: NR
	Age: NR	Technology - teams of two		Relative change: NR
	Grade level(s): 6 th	trained on-site technology		Narrative results: decrease for
	Sex: 54% female, 46%	intervention assistants (TIAs).		participants assigned to group
	male	Group - teams of three (one for		condition not significant (b=05; 95%
	Race/ethnicity: 100%	parent and two for youth		CI=20, .11)
	African American	sessions).		Favorable (Yes/No/No effect): Yes
		Training		Statistical significance: No, p= .58
	Community	TIAs - 6hr (content and technical		
	characteristics: (1)	troubleshooting)		Overall
	rurality index scores	Group facilitators - 36hr over 6		Outcome: Intentions
	>11 (scale of 0¼least	days		Measure: scale, mean (SD)
	rural to 16 or greater			
	¼ most rural), (2) >	Intervention duration: 6		Baseline
	30% African American	weeks		Pretest (n=414): 1.1 (0.2)
	residents, $(3) > 600$			Follow-up (in months): 14.5 mo
	African American teens	Focus of intervention		(posttest)
	in the targeted age	activities:		Posttest (n=337): 1.1 (0.3)
	range, (4) teen	Both parents/caregivers and		Absolute change: NR
	pregnancy rates of	youth: Yes		Relative change: NR
	69%, which is 13%	Parents only: No		Narrative results: NR
	higher than the			Favorable (Yes/No/No effect): No
	average for TN, and (5)			effect

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	state health indicators reflect poor health	Parent and child (either in the same session or not)? Yes		Statistical significance: NR
	determinant outcomes	Parent and child in the same		Outcome: Substance Use
	in TN, (include health	session/activity? Yes		Measure: scale, mean (SD)
	care, health behaviors,			
	socioeconomic factors	Comparison group:		Baseline
	related to health, and	noninteractive literature -		Pretest (n=414): 0.4 (0.9)
	physical environment)	received home-mailed		Follow-up (in months): 37.1 mo (after
		educational materials containing		pre-test)
		same topical content information		long-term follow-up (n=165): 0.8 (1.1)
		as the weekly technology-		Absolute change: NR
		delivered and traditional small		Relative change: NR
		group conditions		Narrative results: NR
				Favorable (Yes/No/No effect): No
				Statistical significance: NR
Author (Year):	Setting: Home	Brief description of	Brief description: alcohol	ITT Analysis
O'Donnell et al. (2010)		interventions and content:	consumption (asked if in had	For each outcome
	Urbanicity: Urban	Intervention: 4 CDs	more than a few sips of alcohol	
Location: USA, New		4 audio CDs containing dramatic,	or been drunk)	Intervention CD
York City, New York	Eligibility: Families	role-model stories that offer		Outcome: Alcohol Use
	with a daughter in 6th-	windows into the lives of four	Substance(s)* alcohol use	Measure: used alcohol or gotten drunk
Years for Study:	grade in one of 4 high	fictional families. These families		in past 3 months logistic regression
2005-2006	poverty NYC public	reflect the diversity of the	Polysubstance measures	Baseline
	schools (2005-2006)	intended audience: two are	(Yes/No)? No	Int (n=): NR
Period for Study: 6	general education	African American, one family that		Comp (n=): NR
months	classroom, one parent	has recently emigrated from the	Outcome types (Type YES or	Follow-up (in months): 3 months post
Chudu Decian	who could speak	Caribbean, and one is Latino	NO next to each outcome) Intentions? No	intervention (9 months from baseline)
Study Design: Individual RCT (families	English, not be planning to move	CD's focus on what parents can say or do to be supportive.	Initiation? No	Int (n=): 14% Comp (n=): 26%
-	during the school year,	Stories present reasons why girls	Use? Yes	Absolute change: -12 pct pts
assigned)	and have a telephone	may drink (e.g., peer pressure,	SU disorder? NO	Relative change: -12 pct pts
CG Suitability:	and address for	handling emotions, sensation	Educational outcomes (test	Narrative results: controlling for
Greatest	receiving materials.	seeking), pressures they may be	score; attainment; grade	school attended, girls' age, ethnicity,
	Parents who returned	under to drink and/or have sex,	retention; disciplinary actions;	and baseline risk females in the CD
	consent forms were	and warning signs of problems,	etc.)? No	condition were less likely to report

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Risk of Bias	enrolled in the study;	including hanging out with older	Mental health (depressive	alcohol use than girls in the control
Assessment	youth provided assent	boys, accepting gifts, and	symptoms; anxiety; etc.)? No	condition
a) Randomization-		concerns about unwanted sexual	Morbidity? No	Adjusted OR: 0.38 (0.15 -0.97) RR of
Unclear	Recruitment: School	advances.	Mortality? No	1.86
b) Concealment-	in four high poverty		Equity (stratified analysis;	Favorable (Yes/No/No effect): Yes
Unclear	NYC public schools	Attention-controlled: 4 booklets	focused on one historically	Statistical significance: No
c) Blinding– High	All girls provided		disadvantaged group)?	
d) Outcomes– Unclear	brochures describing	Intervention /program name:	Population high poverty area.	Attention Control: booklet
e) Selective- Low	study to take home to	Especially for Daughters	Latina versus other	Measure: used alcohol or gotten drunk
	parents			in past 3 months
		Substance(s) focused*: alcohol	Other outcomes? Sexual	(Table 2) logistic regression
	Inclusion/Exclusion:	use	behavior	Baseline
	see above		Asked if engaged in hetero-	Int (n=): NR
		Format:	sexual romantic or social	Comp (n=): NR
	Sample size:	Intervention: CD	behaviors that typically	Follow-up (in months): 3 months post
	Baseline: 268 families	Attention-controlled: booklet	precede sexual intercourse	intervention (9 months from baseline)
	Follow-up: 222 (girls);			Int (n=): NR
	233 (parents)	Intervention intensity:	Parents provided information	Comp (n=): NR
	Loss to f/u: 17% girls;	I: 4 CD's;	on communicating with	Absolute change: NA
	13% parents	AC: 4 booklets	daughter's about alcohol use	Relative change: NA
		Number of sessions or modules:	and sex	Narrative results: controlling for
	Study population:	4		school attended, girls' age, ethnicity,
	Parents and Caregivers	Number of hours per session: NR		and baseline risk females in the
	Age: NR	Total hours of intervention: NR		adjusted OR: 0.49 (0.20 -1.19)
	Sex: NR (89.1%			Favorable (Yes/No/No effect): Yes
	mother; 5.8% father;	Additional components telephone		Statistical significance: No
	5% self-identified	calls made to ensure parents		_
	caregivers mostly	received materials. modules also		Subgroup analysis:
	mothers or other	focused on sexual initiation		Latina vs other aOR: 0.93 (0.43-2.15)
	women, grandmother			Narrative results: being Latina was not
	aunt)	Implementer(s): I: CD AC:		significantly related to the outcomes
	Race/ethnicity: 29.1%	booklet		
	Latino			Parent reported outcomes:
	Education: NR	Intervention duration: about 6		parents in the intervention condition
	Employment: NR	months (4 CD's mailed every 6		were more likely to report talking with
	Income: NR	weeks)		their daughter about alcohol use at

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Marital status: 33.6% live with both parents most of the time Other: none Study Population: Youth Age: 11-13 years (41.8% 11 years; 44.4% 12 years; 13.8% 13 years) Grade level(s): 6 th grade Sex: 100% female Race/ethnicity: 34.3% Latina	Focus of intervention activities: Both parents/caregivers and youth: No Parents only: Yes (however, parents noted they often listened to program with daughters) Parent and child (either in the same session or not)? No Parent and child in the same session/activity? No Comparison group: usual care no materials other than a form		follow-up compared with controls: AOR = 5.74, CI = 2.36-13.97, p< .001. There is a smaller but still significant benefit of the print materials received by the attention-controlled group: AOR = 2.71, CI = 1.28- 5.71, p< .01.
	Other: none Community characteristics: predominately African American and Latino families Across schools, 76% to 96% of families were eligible for Title 1 low- income requirements for free or reduced- price lunch	for updating contact information		
et al. (2009)	Setting: Mix (home + community) Recruitment through schools, but location of group sessions not reported	Brief description of interventions and content: Familias Unidas: Hispanic- specific, family-based preventive intervention including	Brief description: Adolescents were asked whether they had ever smoked, drunk alcohol, or used an illicit drug in their lifetime	Outcome: Substance Use (smoked, drunk alcohol or used an illicit drug) Measure: substance use in past 30 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Cildiacteristics			
		(a) increasing parental	and in the 30 days before	Baseline
-	Urbanicity: Urban	involvement in the adolescent's	assessment.	Int (n=109): 15%
2004-2008	(Miami)	life,		Comp (n=104):25%
		(b) increasing family support for	Substance(s)* General	Follow-up (in months): 30 month
-	Eligibility: Only	the adolescent,		Int (n=93): 13%
months	adolescents rated by	(c) promoting positive parenting,	Polysubstance measures: No	Comp (n=87): 34%
	their parents as ≥ 1 SD	and	(illicit drug not reported	Absolute change: -11.0 pct pts
Study Design:	above the nonclinical	(d) improving parent-adolescent	separately)	Relative change: -61.8%
Individual RCT	normed mean (24) on	communication		Narrative results: Growth curve
	at least one of the		Outcome types (Type YES or	analyses showed a significant
CG Suitability:	three RBPC scales were	Intervention/program name:	NO next to each outcome)	difference in past 30-day substance
Greatest	included in the study.	Familias Unidas	Intentions? No	use between Familias Unidas and
	Adolescents also had to		Initiation? No	Community Control $b=0.53$, $z = 2.42$,
Risk of Bias	be of Hispanic	Substance(s) focused* general	Use? Yes	p<0.02; d=0.25)
Assessment	immigrant origin (at	(substance use)	SU disorder? No	Favorable (Yes/No/No effect): Yes
a) Randomization- Low	least one parent born		Educational outcomes (test	Statistical significance: Yes
b) Concealment-	in a Spanish speaking	Format: face-to-face	score; attainment; grade	
Unclear	country in the	Small group sessions	retention; disciplinary actions;	
c) Blinding– High	Americas), to be in the	Family visit sessions	etc.)? No	
d) Outcomes- Low	8th grade, to have an		Mental health (depressive	Outcome: Externalizing Behavior
e) Selective- Low	adult primary caregiver		symptoms; anxiety; etc.): Yes,	Problems
	willing to participate in	Intervention intensity:	externalizing disorders	Measure: Not well described but parent
	the study, and to live	Number of sessions or modules:	Morbidity? No	reported
	within the catchment	19 (9 group + 10 family + 4	Mortality? No	
	areas of one of the	booster)	Equity (stratified analysis;	Baseline
	three middle schools	Number of hours per session: 2	focused on one historically	Int (n=109): 68.2%
	included in the study.	hours groups session; 1 hour	disadvantaged group)? Yes,	Comp (n=104):64.7%
		family session, 1 hour booster	low-income, Hispanic	Follow-up (in months): 30 month
	Recruitment:	Total hours of intervention: 32		Int (n=93): 32.6%
	Recruited from three	(18 hours group; 10 hours	Other outcomes? Parent	Comp (n=87): 41.0%
	large, predominantly	family; 4 hours booster)	involvement, positive	Absolute change: -11.9 pct pts
	Hispanic middle schools		parenting, family support,	Relative change: -20.5%
	located within a single	Additional components (things	parent and adolescent	Narrative results: no significant
	urban low-income	outside the sessions/modules):	communication and parental	difference in the percentage of youth
	school district in Miami-		monitoring using Parenting	externalizing behavior problems over
	Dade County, Florida.	\$30, and \$35 for completing	Practices Scale; Parent-	time between Familias Unidas and

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	School counselors at each of the participating schools were asked to identify Hispanic 8th grade students who had at least "mild problems" on at least one of three Revised Behavior Problem Checklist subscales: conduct disorder; socialized aggression; and attention problems. Inclusion/Exclusion: Exclusion: Adolescents were excluded if a) the family was planning to move out of the catchment areas of the three schools during	each assessment. Families were also compensated \$30 for transportation at each assessment. Implementer(s): Facilitators (3 Master's and 1 PhD level) clinical experience with urban, low- income Hispanic immigrant families Intervention duration: 9 months Focus of intervention activities: Both parents/caregivers and	Scale; Family Relations Scale;	Community Control, although there is a trend favoring Familias Unidas b=0.41, z = 1.85, p<0.10; d=0.18) Favorable (Yes/No/No effect): Yes Statistical significance: No

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sample size: 215			
	families			
	Baseline: Int: 109;			
	Cont: 104			
	Follow-up: Int: 93;			
	Cont: 87			
	Loss to f/u: 15.5%			
	Study population:			
	Parents and			
	Caregivers			
	Age: 40.0			
	Sex: 87.3% female;			
	12.7% male			
	Race/ethnicity: NR			
	(presumed to be 100%			
	Hispanic)			
	Education: NR			
	Employment: NR			
	Income:			
	\$0-\$9,999/year			
	29.4%; \$10,000-			
	\$19,999/year 38.5%;			
	\$20,000-\$29,999/year			
	18.3%;			
	>\$30,000/year 13.1%			
	Marital status: NR			
	Other: years in US:			
	Years in U.S.			
	16.5% 0-3 years			
	21.1% 3-10 years			
	62.4% >10 years			
	Study Population:			
	Youth			
	Age: 13.8 years			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Grade level(s): 8 th			
	grade			
	Sex: 36.2% females;			
	63.8% males;			
	Race/ethnicity: 100%			
	Hispanic			
	Other: 56.1% born in			
	U.S; 43.7 immigrant			
	(26.9% Honduras;			
	20.4% Cuba; 16.1%			
	Nicaragua)			
	Community			
	characteristics: NR			
Author (Year):	Setting: Mix (school,	Brief description of	Brief description: Student	12 th grade outcomes based on growth
Perry et al. (1996)	home, and community)	intervention and content:	self-reported substance use	curve analyses with three-level mixed
		Multi-year multi-level, multi-	and intentions outcomes over	effects regression model (within and
Related papers:	Urbanicity: rural	component, alcohol prevention	serial assessments conducted	between school-district variance
Williams et al.,1999		interventions including:	in classrooms 6 th -12 th grade	included and adjusted for race)
Perry et al., 2002	Eligibility: 6 th grade	Youth prevention curricula	evaluated in two phases	
	students and families in	Peer activities	Phase 1: 6 th -8 th grade	Interim period (9-10 th grade) results
Location: USA,	all schools in selected	Parent engagement education	Phase 2: 11-12 th grade	are not reported
Northeast Minnesota	study region (6	Community activities		
	counties, 24 school		Alcohol Measures	8 th grade outcomes (from Perry 1996)
Years for Study:	districts)	Intervention/program name:	-Past-month alcohol use,	provide rates of use measures (overall
1991-1998		Project Northland	-Past week alcohol use and -	sample) and rates of initiation
1991-1994 (phase 1)	Recruitment: 24		Binge drinking (5 or more	(baseline nonusers)
1994-1996 interim	school districts	Substance(s) focused: alcohol	drinks in a row within the past	Outcomes for interventions in 11-12 th
1996-1998 (phase 2)	recruited in 1990		2 weeks)	grade (Phase 2 outcomes on use)
	Student in 6 th grade	Parent engagement education		
Period for Study:	and baseline (fall 1991)		Note: Tendency to Use Alcohol	Outcome: Growth rate in Past
90 months (overall)	and part of study	6 th -7 th grade	measure combined intentions	Month Alcohol Use
30 months (Phase 1)	through high school	-8 workbooks with weekly	and use outcomes. Results not	Measure: Score based on use of
24 months (Phase 2)	graduation (spring	assignments to do with child with	reported here for either	alcohol on at least one occasion in the
	1998)	encouragement on parental rules	category	past 30 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study Design: Group		and monitoring of alcohol in the		
RCT	Inclusion/Exclusion:	home	Cigarette use and smokeless	Baseline (n=NR; 2950 overall)
	6 th grade student at	7 Parent newsletters	tobacco use were defined as	Int (n=NR; 1401 overall): 1.96 score
CG Suitability:	one of the 24 selected	Parent involvement in Youth Peer	more than two or three lifetime	Comp (n=NR; 1549 overall): 1.83
Greatest	school districts	activities	occasions of use (indicated by	score
		Parent recruitment on community	occasionally but not regularly,	Follow-up: 24 months (n=NR)
Risk of Bias	Sample size:	Task Forces	regularly in the past, or	Int (n=NR): growth rate 0.13
Assessment	Recruited school		regularly now).	Comp (n=NR): growth rate 0.20
a) Randomization-	districts: 24 (4 small	11-12 th grade		Absolute change: NR
Unclear	districts consolidated)	11 postcards for parents in with	Marijuana use was defined as	Relative change: NR
b) Concealment-	Intervention: 10	behavioral tips on communicating	any use in the past year.	Narrative results: p=0.07
Unclear	districts	and working with their high		Favorable: Yes
c) Blinding– High	Comparison: 10	school students	Substance(s): alcohol,	Statistical significance: No
d) Outcomes- High	districts	-Parent recruitment to campaign	cigarette, smokeless tobacco,	
e) Selective- High		to promote parent/youth	marijuana	Outcome: Growth rate in Past
	Recruited 6 th grade	communication		Week Alcohol Use
	students Baseline:		Polysubstance measures? No	Measure: Score based on use of
	2351	Youth Prevention Curricula	(but a combined alcohol,	alcohol on at least one occasion in the
	Intervention: NR	Classroom curricula and activities	cigarette use, and marijuana	past 7 days
	Comparison: NR	on alcohol prevention (6 th -11 th	use measure was described)	
	8 th grade outcomes:	grade)		Baseline (n=NR; 2950 overall)
	1901 (80.8%)	4 weeks in 6 th grade	Outcome types	Int (n=NR; 1401 overall): 1.39 score
	8 th grade loss to follow-	8 weeks in 7 th grade	Intentions? Yes but only as	Comp (n=NR; 1549 overall): 1.33
	up: 19.2	8 sessions in 8 th grade	combined measure	score
		5 sessions in 9 th grade	Initiation? Yes	Follow-up: 24 months (n=NR)
	12 th grade students in	6 sessions in 11 th grade	Use? Yes	Int (n=NR): growth rate 0.07
	study schools at follow-		SU disorder? Yes (binge	Comp (n=NR): growth rate 0.10
	up: 2950	Behavioral content including	drinking)	Absolute change: NR
	Intervention 1401	alcohol facts, influences, peer	Educational outcomes? Yes,	Relative change: NR
	Comparison: 1549	communication, and skills. Grade	school problems scale	Narrative results: p=0.53
	Loss to f/u: NA (67.8%	9 focused on drinking and driving	Mental health? No	Favorable: Yes
	of original cohort	and alcohol advertising	Morbidity? No	Statistical significance: No
	surveyed)		Mortality? No	
		Youth Peer Activities	Equity? No, but rural	Outcome: Growth rate in Binge
		6 th -8 th grade	applicability	Drinking
		Peer leadership recruitment		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Study population:	TEENS group activities	Other outcomes? Yes	Measure: Score based episodes of 5 or
	Parents and	11-12 th grade	Peer Influence Scale	more drinks in a row in the last 3
	Caregivers	Peer action groups focused on	Self-efficacy Scale	weeks
	Age: NR	school projects and promotion	Perceived Access Scale	
	Sex: NR		Sales: All outlets and Off-sale	Baseline (n=NR; 2950 overall)
	Race/ethnicity: see	Community Activities	outlets	Int (n=NR; 1401 overall): 1.60 score
	children	6 th -8 th grades	Parent survey on changes in	Comp (n=NR; 1549 overall): 1.45
	Education: NR	Community Task Forces	the home	score
	Employment NR	recruiting community members		Follow-up (in months): 24 months
	Income: NR	to work on alcohol prevention		(n=NR)
	Marital status: NR	activities and policies		Int (n=NR): growth rate 0.09
	Other: NR	11-12 th grades		Comp (n=NR): growth rate 0.18
		Community action teams focused		Absolute change: NR
	Study Population:	on alcohol sales policies		Relative change: NR
	Youth			Narrative results: p=0.02
	Age: NR	Formats: Face-to-Face youth		Favorable: Yes
	Grade level(s):	groups Mailed workbooks and		Statistical significance: Yes
	followed 6 th through	newsletters for parents		
	12th grade	Community group activities		8 th grade outcomes (Phase 1
	Sex: Females 48.7%;			Outcomes reported in Perry 1996)
	Males 51.3%	Intervention intensity:		Substance Use Measures
	Race/ethnicity:	Alcohol prevention content		Outcome: Past Month Alcohol Use
	White 94%	Number of sessions: Youth: 31 or		Measure: Self-reported use of alcohol
	American Indian: 5.5%	more school sessions (most 45		on at least one occasion in the past 30
	Other: NR	minutes) + 8 workbooks+ peer		days
		activities		
	Community	Parents: 8 weekly workbooks + 7		Baseline (n=2351)
	characteristics:	newsletters+11 postcards+		Int (n=NR): 6.9%
	Mostly lower-middle to	parent engagement in peer and		Comp (n=NR): 3.9%
	middle class	community activities		Follow-up (in months): 30 months
	Rural counties ranked	Number of hours per session: NR		(n=1901)
	top alcohol-related	Total hours of intervention: NR		Int (n=NR): 23.6%
	problems in state			Comp (n=NR): 29.2%
	Study area included 7	Additional components:		Absolute change: -8.6 pct pts
	American Indian	Local policy implementation		Relative change: -54.3
	reservation's	Family Fun Nights		Narrative results: p<0.05(differences
		,		

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		Print media campaign		between conditions based on F
		Local news coverage		statistic).
				Favorable: Yes
		Implementer(s):		Statistical significance: Yes
		Trained teachers delivered youth		
		school curricula and activities		Outcome: Past Week Alcohol Use
		Student peers had leadership		Measure: Self-reported use of alcohol
		meeting and training		on at least one occasion in the past 7
				days
		Intervention duration: 7 years		Baseline (n=2351)
		overall with most interventions in		Int (n=NR): 3.8%
		Phase 1: 6 th -8 th grade (3 years)		Comp (n=NR): 2.0%
		and Phase 2: 11-12 th grade (2		Follow-up (in months): 30 months
		years)		(n=1901)
				Int (n=NR): 10.5%
		Focus of intervention		Comp (n=NR): 14.8%
		activities:		Absolute change: -6.1 percentage
		Both parents/caregivers and		points
		youth: Yes		Relative change: -62.6%
		Parents only: No		Narrative results: p<0.05(differences
				between conditions based on F
		Parent and child in the same		statistic).
		session/activity? Yes, booklet		Favorable: Yes
		activities in the home		Statistical significance: Yes
		Comparison group: Usual		Outcome: Cigarette use
		alcohol and other drug education		Measure: more than one or two
		programs continued; (most		occasions (occasionally or regularly)
		received Project DARE)		
		Note: comparison school districts		Baseline (n=2351)
		were offered delayed phase 1		Int (n=NR): 6.9%
		interventions. Uptake NR		Comp (n=NR): 4.7%
				Follow-up (in months): 30 months
				(n=1901)
				Int (n=NR): 24.8%

Comp (n=NR): 30.7% Absolute change: 8.1 percentage points Relative change: 44.9% Narrative results: NR Favorable: Yes Statistical significance: No Outcome: Smokeless tobacco use Measure: more than one or two occasions (occasionally or regularly) Baseline (n=2351) Int (n=): 1.5% Comp (n=): 1.5% Relative change: -2.8 percentage points Relative change: -17.2% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: No, p<0.08 Outcome: Marijuana use Measure: Any use in past year Baseline (n=2351) Int (n=): 0.7% Comp (n=): 0.4% Follow-up (in months): 30 moths (n=1901) Int (n=): 7.4%	Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Relative change: 44.9% Narrative results: NR Favorable: Yes Statistical significance: No Outcome: Smokeless tobacco use Measure: more than one or two occasions (occasionally or regularly) Baseline (n=2351) Int (n=): 1.5% Comp (n=): 1.5% Follow-up (in months): 30 months (n=1901) Int (n=): 13.5% Comp (n=): 16.3% Absolute change: -2.8 percentage points Relative change: -17.2% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: No, p<0.08 Outcome: Any use in past year Baseline (n=2351) Int (n=): 0.7% Comp (n=): 0.4% Follow-up (in months): 30 months (n=1901)					
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Favorable: Yes Statistical significance: No Outcome: Smokeless tobacco use Measure: more than one or two occasions (occasionally or regularly) Baseline (n=2351) Int (n=): 1.5% Comp (n=): 1.5% Follow-up (in months): 30 months (n=1901) Int (n=): 1.5% Comp (n=): 15.3% Follow-up (in months): 30 months (n=1901) Int (n=): 1.3.5% Comp (n=): 16.3% Absolute change: -2.8 percentage points Relative change: -17.2% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: No, p<0.08					
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Measure: more than one or two occasions (occasionally or regularly) Baseline (n=2351) Int (n=): 1.5% Comp (n=): 0.7% Comp (n=): 0.4% Follow-up (in months): 30 moths (n=1901)					
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Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: No, p<0.08					points
Favorable (Yes/No/No effect): Yes Statistical significance: No, p<0.08					
Statistical significance: No, p<0.08					Narrative results: NR
Outcome: Marijuana use Measure: Any use in past year Baseline (n=2351) Int (n=): 0.7% Comp (n=): 0.4% Follow-up (in months): 30 moths (n=1901)					
Measure: Any use in past year Baseline (n=2351) Int (n=): 0.7% Comp (n=): 0.4% Follow-up (in months): 30 moths (n=1901)					Statistical significance: No, p<0.08
Measure: Any use in past year Baseline (n=2351) Int (n=): 0.7% Comp (n=): 0.4% Follow-up (in months): 30 moths (n=1901)					Outcome: Marijuana use
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Int (n=): 0.7% Comp (n=): 0.4% Follow-up (in months): 30 moths (n=1901)					Baseline $(n-2351)$
Comp (n=): 0.4% Follow-up (in months): 30 moths (n=1901)					
Follow-up (in months): 30 moths (n=1901)					
(n=1901)					
Comp (n=): 8.6%					

Absolute change: -1.5 percentage points Relative change: -50.8% Marrative results: INR Favorable (Yes/No/No effect): Yes Statistical significance: No 8 th grade outcomes (Perry 1996) Initiation of Substance Use Measures (8 th grade outcomes (Perry 1996) Initiation of Substance Use Measures (8 th grade outcomes among 6 th grade	Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
initiation above					points Relative change: -50.8% Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: No 8 th grade outcomes (Perry 1996) Initiation of Substance Use Measures (8 th grade outcomes among 6 th grade baseline nonusers) Outcome: Initiation of Alcohol Use Measure: Self-reported use of alcohol on at least one occasion in the past 30 days among 6 th grade nonusers Baseline (n=NR; 2351 overall) Int (n=NR): 0% Comp (n=NR): 0% Follow-up (in months): 30 months (n=NR; 1901 overall) Int (n=NR): 15.3% Comp (n=NR): 21.2% Absolute change: -27.8% Narrative results : p<0.05 (differences between conditions based on F statistic). Favorable: Yes Statistical significance: Yes Note: Past week use initiation Not reported here in favor of 30-day use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Outcome: Initiation of Cigarette
				use
				Measure: more than one or two
				occasions (occasionally or regularly)
				among baseline nonusers
				Baseline (n=NR; 2351 overall)
				Int (n=NR): 1.5%
				Comp (n=NR): 0.9%
				Follow-up (in months): 30 months
				(n=NR; 1901 overall)
				Int (n=NR): 15.5%
				Comp (n=NR): 24.6%
				Absolute change: -9.7 pct pts
				Relative change: -62.2
				Narrative results: p<0.05(differences
				between conditions based on F
				statistic).
				Favorable: Yes
				Statistical significance: Yes
				Outcome: Initiation of Smokeless
				tobacco use
				Measure: more than one or two
				occasions (occasionally or regularly) in
				baseline nonusers
				Baseline (n=NR; 2351 overall)
				Int (n=NR): 0%
				Comp (n=NR): 0%
				Follow-up (in months): 30 months
				(n=NR 1901 overall)
				Int (n=NR): 7.4%
				Comp (n=NR): 12.3%
				Absolute change: -4.9 pct pts
				Relative change: -39.8%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: No
				Outcome: Initiation of Marijuana use Measure: Any use in past year among
				baseline nonusers
				Baseline (n=NR; 2351 overall) Int (n=NR): 0% Comp (n=NR): 0% Follow-up (in months): 30 months (n=NR; 1901 overall) Int (n=NR): 3.1% Comp (n=NR): 6.2% Absolute change: -3.1 pct pts Relative change: -50% Narrative results: p<0.05 (differences between conditions based on F statistic). Favorable (Yes/No/No effect): Yes Statistical significance: Yes
				Educational Outcomes (Phase 1 reported in Williams 1999)
				Outcome: Self-assessed adolescent school problems Measure: Scale score in 20 item Minnesota Muttiphasic Personality Inventory- Adolescent (MMPI-A)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline (n=NR; 2351 overall)
				Int (n=NR): score 3.97
				Comp (n=NR): score 3.67 Follow-up (in months): 30 moths
				(n=NR; 1901 overall)
				Int $(n=NR)$: 5.33
				Comp (n=NR): 5.81
				Absolute change: -0.78 scale score
				points
				Relative change: NA
				Narrative results: p=0.10
				Favorable (Yes/No/No effect): No effect
				Statistical significance: No
Author (Year): Prado	Setting: Mix (home +	Brief description of	Brief description Youth online	Substance use outcomes were
et al. (2007)	Community)	intervention and content:	self-reported substance use	analyzed using growth curve
		combined two parent-centered	and sexual activity questions	modeling. Growth curve analyses were
Location: USA, Florida,		programs to improve family		used to estimate individual trajectories
Miami	(Miami)	functioning and HIV risk	Substance use questions on	of change and to test for slope
		communication	lifetime use, in the 90 days	differences among the three study
Years for Study:	Eligibility: Hispanic	Femilies Unideau Llienenie	prior, and frequency of use	conditions over time
2001-2005	youth in 7 th grade in	Familias Unidas: Hispanic-	Frequency of use of a variable of	Creating and illigit drug upo 00 day upo
Period for Study: 36	one of three study middle schools	specific, family-based preventive intervention including	drugs, including marijuana,	Smoking and illicit drug use 90 day use rates for each study arm at baseline
months		(a) increasing parental	cocaine, amphetamines,	and follow-up were plotted
monuns	Recruitment: through	involvement in the adolescent's	methamphetamines, and	
Study Design:	schools, but location of		barbiturates.	Outcome: Cigarette use
Individual RCT	-	(b) increasing family support for		Measure: Self-reported cigarette use
	reported Flyer	the adolescent,	Initiation of use was generated	past 90 days (comparison with
CG Suitability:	recruitment in study	(c) promoting positive parenting,	in post-hoc analyses	ESOL+HEART arm)
Greatest	middle schools.	and		,
		(d) improving parent-adolescent	Substance(s)* cigarette,	Baseline
Risk of Bias	Inclusion: At least one		alcohol, general (illicit drug)	Int (n=91): 3.3%
Assessment	parent was born in a			Comp (n=91): 3.3%
a) Randomization- Low	Spanish-speaking	PATH HIV prevention curriculum	Polysubstance measures	Follow-up (in months): 36 months
	country in the Americas	designed to promote family	(Yes/No)? Yes (illicit drugs)	Int (n=71): 1.4%

Study	Population	Intervention	Outcomes	Results
	Characteristics	Characteristics		
b) Concealment-	and available to attend	communication and responsible		Comp (n=70): 14.3%
Unclear	weekly meetings	sexual behaviors	Outcome types	Absolute change: -12.9 pct pts
c) Blinding– High			Intentions? No	Relative change: -90.2%
d) Outcomes– Low	Sample size: Family	Intervention/program name:	Initiation? Yes	Narrative results: z=2.66, p <0.008;
e) Selective- Low	dyads	Familias Unidas + Preadolescent	Use? Yes	d=0.80; trajectory decreased for
	Interested: 640	Training for HIV Prevention	SU disorder? No	intervention group and increased for
	families	(PATH)	Educational outcomes? No	control group
	Evaluated: 579		Mental health? No	Favorable: Yes
	Randomized: 266	Substance(s) focused	Morbidity? No	Statistical significance: Yes
	Intervention 91	General	Mortality? No	
	Control 1 84		Equity? Tailored intervention	Outcome: illicit drug use
	Control 2 91	Format: face-to-face	for Hispanic families evaluated	Measure: illicit drug use past 90 days
	36m follow-up: 211	Small group sessions	in Hispanic families	(comparison with ESOL+HEART arm)
	(79.3%)	Family visit sessions		
	Loss to f/u: 20.7%		Other outcomes? Yes	Baseline
		Intervention intensity:	Sexual risk behaviors	Int (n=91): 2.2%
	Study population:	Number of sessions: 25	Family functioning	Comp (n=91):3.3%
	Parents and	(15 parent group, 8 family visits,		Follow-up (in months): 36 months
	Caregivers (overall)	2 parent-adolescent circles)	Sexual Behavior instrument:	Int (n=71): NR
	Age:40.9 years	Number of hours per session: 2	Self-reported if they had ever	Comp (n=70): NR
	Sex: 85.3% females;	Total hours of intervention: 49	had sex in their lifetime	Absolute change: NR
	14.7% males		(initiation) and in the 90 days	Relative change: NR
	Race/ethnicity: 100%	Additional components:	(recent) prior to assessment.	Narrative results: Growth curve
	Hispanic	No important components (\$20-	Sex initiators asked if they had	analyses indicated significant
	Education: NR	40 incentives for reporting and	engaged in unprotected sex at	differences in past 90-day illicit drug
	Employment: NR	\$30 to cover transportation to	last intercourse, had consumed	use between intervention arm and
	Income:	meetings)	alcohol or drugs before their	ESOL + HEART (z = 2.02, p < .05; d =
	\$0 -\$9,999; 22%		last sexual intercourse, and	0.58).
	\$10,000-\$19, 999;	Implementer(s): Facilitators	had ever contracted a sexually	Favorable: Yes
	37%	with clinical experience working	transmitted disease.	Statistical significance: Yes
	\$20,000-\$29,999; 22%	with Hispanic families were		_
	>\$30,000/year; 15%	trained by researchers in each		Outcome: illicit drug use frequency
	NR 3%	program (ESOLS were teachers)		Measure: Frequency of past 90 day
	Marital status: NR	· · · · · · · · · · · · · · · · · · ·		illicit drug use (comparison with
	Other: immigrant:	Intervention duration: 12		ESOL+HEART arm)
	Cuba, 40%	months active intervention		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Nicaragua; 25%			Baseline
	Honduras; 9%	Focus of intervention		Int (n=NR): mean 0.43 (SD 3.69)
	Colombia; 4%	activities:		Comp (n=NR): mean 0.07 (SD 0.54)
	Other 22%	Both parents/caregivers and		Follow-up: 36 months
		youth: Yes but most sessions		Int (n=NR): mean 0.18 (SD NR)
	Study Population:	were parent only		Comp (n=NR): mean 1.48 (SD NR
	Youth (intervention	Parents only: No		Absolute change: -1.66 instances in
	group)			90 days
	Age:13.4 years	Parent and child in the same		Relative change: -98.0%
	Grade level(s): 8 th	session/activity? Yes (parent-		Narrative results: The observed
	grade	adolescent small groups)		mean frequency of illicit drug use
	Sex: 57% females;			decreased in intervention arm but
	43% males	Comparison groups: Two		increased in
	Race/ethnicity: 100%	control arms		ESOL + HEART arm between 24 and 36
	Hispanic	ESOL + HEART arm		months postbaseline
	Other: Years in US	ESOL + PATH arm		Favorable: Yes
	0-3 34%			Statistical significance: NR
	3-10 20%	English for Speakers of Other		
	>10 46%	Languages (ESOL) taught by		Outcome: Alcohol use
		ESOL teachers to help parents		Measure: alcohol use past 90 day
	Community	communicate more effectively in		(comparison ESOL+HEART control
	characteristics: NR	English		arm)
		HEART: cardiovascular health		Baseline
		promotion including some		Int (n=91): 10.0%
		content on cigarette use taught		Comp (n=91): 8.8%
		by facilitators		Follow-up (in months): 36 months
				Int (n=71): NR
		Dosage for both arms designed		Comp (n=70): NR
		to be equivalent 49 hours:		Absolute change: NR
		8 ESOL classes and 7 group		Relative change: NR
		sessions		Narrative results: Growth curve
				analyses showed no significant
				differences in past-90-day alcohol use
				between intervention and either control
				arm

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Favorable: No effect
				Statistical significance: No
				Outcome: Cigarette initiation (post
				hoc analyses)
				Measure: Cigarette initiation across all
				3 study arms
				Baseline
				Int (n=91): 0
				Comp (n=91): 0
				Follow-up (in months): 36 months
				Int (n=74): 10.8%
				Comp (n=70): 27.1%
				Absolute change: -16.3 pct pts
				Relative change: NA
				Narrative results: Fewer adolescent
				in intervention group reported initiating
				smoking during the study than in the
				two control arms X2 (2, n=218)=6.79,
				p<0.04.
				Favorable: Yes
				Statistical significance: Yes, post hoc
				includes all three groups
				Outcome: Alcohol initiation
				Measure: alcohol initiation across all 3
				study arms
				Baseline
				Int (n=91): 0
				Comp (n=91): 0
				Follow-up (in months): 36 months
				Int (n=71): NR
				Comp (n=70): NR
				Absolute change: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Relative change: NR Narrative results: no significant
				difference for alcohol initiation
				Favorable (Yes/No/No effect): No effect
				Statistical significance: No
				Outcome: Illicit drug initiation
				Measure: illicit drug initiation across all
				3 study arms
				Baseline
				Int (n=91): 0
				Comp (n=91): 0
				Follow-up (in months): 36 months
				Int (n=71): NR
				Comp (n=70): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: no significant
				difference for illicit drug initiation
				Favorable (Yes/No/No effect): No effect
				Statistical significance: No
				Unprotected sexual behavior:
				Recent sex, asked if they had engaged
				in unprotected sex (i.e., sex without a
				condom) during that time. Growth
				curve analyses not estimated for past-
				90-day unprotected sex given the
				small number of participants engaging
				in sexual behavior in past 90 days.
				Post hoc analyses - significant
				difference also emerged, $\chi 2(1, N = 53)$
				= 3.87,p < .05 (w = .27), in unsafe
				sex at last sexual intercourse

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				between Familias Unidas + PATH and ESOL + PATH, with 19.2% (or 5 out of 26) of the adolescents in Familias Unidas + PATH and 44.4% (or 12 out of 27) in ESOL + PATH reporting unsafe sexual intercourse. No other significant differences were found. Familias Unidas + PATH moderately efficacious in preventing unsafe sexual behavior Regarding prevention of unsafe sexual behavior, sexually active adolescents in Familias Unidas + PATH reported having been significantly more likely to use a condom at last sexual intercourse than their counterparts in ESOL + PATH.
				The condition differences in condom use at last sexual intercourse must be interpreted with caution, given that no effects were found forpast-90-day unprotected sexual intercourse. It is important to note, however, that this lack of statistical significance might have been due, at least in part, to the small number of participants reporting past-90-day unprotected sexual intercourse.
Author (Year): Prado et al. (2012) Location: USA, Florida, Miami-Dade County	Setting: Mixed (home and community) Recruitment through schools and juvenile justice center	Brief description of intervention and content: Hispanic-specific, parent- centered intervention designed to improve family functioning and	Brief description: Youth self- reported behaviors using survey assessment using an audio-enhanced, computer- assisted self-interviewing	Growth curve analyses were used to estimate individual trajectories of change and to test for slope differences between conditions over time. For each

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		reduce youth substance use and	program, in either English or	of the outcomes, data from all three
Years for Study: NR	meetings was not	unsafe sexual behaviors	Spanish	assessment points were used.
	reported			
Period for Study: 12		Intervention aims to prevent	Youth were asked whether they	
months	Urbanicity: NR (urban	substance use and sexual risk	had drunk alcohol or used an	Measure: alcohol or drug use past 90
	and suburban Miami-	behaviors by positioning parents	illicit drug in their lifetime and	days
Study Design:	Dade County)	as the experts of their	in the 90 days prior to	
Individual RCT		adolescents' needs and	assessment.	Baseline
	Eligibility: Hispanic	development involvement in the		Int (n=120): 44.4%
CG Suitability:	adolescents 12-17	adolescent's life, (b) increasing	Alcohol dependence and	Comp (n=122):38.8%
Greatest	years old identified as	family support for the	marijuana dependence was	Follow-up (in months): 12 months
	delinquent youth based	adolescent, (c) promoting	assessed using Diagnostic	Int (n=113): 33.3%
Risk of Bias	on "Level III behavior	positive parenting, and (d)	Interview Schedule for Children	
Assessment	problem" -	improving parent-adolescent	predictive scales.	Absolute change: -17.8 pct pts
a) Randomization- Low	assault/threat against a	communication		Relative change: -36.5%
b) Concealment- Low	non-staff member,		Having has sex under the	Narrative results: Growth curve
c) Blinding– High	breaking and entering/	Parent-focused group session	influence of alcohol or drug use	analyses
d) Outcomes– Low	burglary, fighting	goals are to bring parents	assessed from sexual behavior	showed a significant difference in past
e) Selective- Low	(serious), hazing,	together for the purposes of	instrument	90-day substance use between
	possession or use of	establishing parental investment,		intervention and control (b $=$ -0.67,
	alcohol and/or	increasing parental support, and	Substance(s):	p=0.02; \$=1.06)
	controlled substances,	providing a context for parent	Alcohol	Favorable: Yes
	possession of simulated	participation in a conjoint skill	Illicit drugs	Statistical significance: Yes
	weapons, trespassing,	learning process.	Combined substance use	
	and vandalism)		(alcohol or illicit drugs)	Outcome: illicit drug use
		Family visits goals are to provide		Measure: illicit drug use past 90 day
	Recruitment: Miami-	parents with an opportunity to		
	Dade County's	transfer the competencies	Polysubstance measures? Yes	Baseline
	Department of Juvenile	learned in the group sessions to		Int (n=120): 29.1%
	Services and the	their adolescent, foster more	Outcome types	Comp (n=122): 23.1%
	Miami-Dade County	nurturing and supportive	Intentions? No	Follow-up (in months): 12 months
	Public School system	relationships, and increase	Initiation? No	Int (n=113): 22.5%
		parent-child communication.	Use? Yes	Comp (n=116): 31.3%
	Inclusion/Exclusion:		SU disorder? Yes	Absolute change: -14.8 pct pts
	See inclusion above	Intervention/program name:	Educational outcomes? No	Relative change: -42.9%
		Familias Unidas		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sample size:		Mental health: No for youth;	Narrative results: The results showed
	Screened: 446	Substance(s) focused: General	Yes, for parents	that intervention was efficacious in
	Baseline: 242 families		Morbidity? No	reducing illicit drug use in the past 90
	Intervention: 120	Format: face-to-face	Mortality? No	days (b =-0.72, p = 0.04, 🖇 = 0.79)
	Comparison:122	Small group parent sessions	Equity? Yes, tailored	Favorable: Yes
	Follow-up: 229		intervention evaluated in	Statistical significance: Yes
	(94.6%) of 242 at 12m	Family visit sessions including	Hispanic families	
	f/u	parent(s) and youth		Outcome: Alcohol use
	Loss to f/u: 5.4%		Other outcomes? Yes	Measure: Alcohol use in past 90 days
		Intervention intensity:	sexual intercourse while under	
	Study population:	Number of sessions: 12 (8 group	the influence of alcohol or	Baseline
	Parents and	sessions, 4 family visits)	drugs	Int (n=120): NR
	Caregivers Overall	Number of hours per session:		Comp (n=122): NR
	Age: NR	group 2 hours/session; family 1	Parental stress	Follow-up (in months): 12 months
	Sex: NR	hour/session	Parental social support	Int (n=113): NR
	Race/ethnicity: 100%	Total hours of intervention: 20		Comp (n=116): NR
	Hispanic	hours	Having had sex under the	Absolute change: NA
	Education: NR		influence of alcohol and drug	Relative change: NA
	Employment: NR	Additional components: None	use measured one item from	Narrative results: trend favoring
	Income: median 15k-	Note: Incentives (\$60-80) for	sexual behavior instrument.	intervention, no statistically significant
	19,999	completing baseline and f/u	Self-reported if they had ever	intervention effects were found (b =
	[Intervention arm	assessments for all study arms	had sex in their lifetime and in	-0.47, p = 0.14, ı = 0.57)
	categories]		the 90 days.	Favorable: Yes
	\$0 -\$9,999	Implementer(s): NR (in other		Statistical significance: No
	25.0%	papers, sessions are run by	Recent sex asked on how many	
	\$10,000-\$19,999	trained facilitators with clinical	days they got high on alcohol	Outcome: Alcohol dependence
	31.7%	family management experience)	or drugs and engaged in sex in	-
	\$20,000-\$29,999		the past 90 days. binary	Schedule for Children (DISC) predictive
	21.7%	Intervention duration: 12	variable if participants engaged	scales
	>\$30,000/year	weeks	in sex under the influence of	
	21.7%		alcohol or drugs in the past 90	Baseline
	Marital status: NR	Focus of intervention activities:	days.	Int (n=120): 15.8%
	Other: immigrants	Both parents/caregivers and		Comp (n=122): 6.6%
	from Cuba 25%	youth: Yes	The impact of Familias Unidas	Follow-up (in months): 12 months
	Honduras 15.5%	Parents only: No	on non-alcohol or drug related	Int (n=113): 5.4%
	Nicaragua 9.5%		sexual risk behaviors can be	Comp (n=116): 8.1%

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Puerto Rico 8.3% Dominican Republic 7.1% Study Population: Youth (intervention group) Age:14.8 years range 12-17 Grade level(s): NR (7th-12th) Sex: females 33.3%; males 66.7% Race/ethnicity: 100% Hispanic Community characteristics: NR	Parent and child in the same session/activity? Yes for family visit sessions Comparison group : Community Practice including referrals to county available community- based services including several therapeutic modalities (individual and family therapy), as well as address multiple problem behaviors, including alcohol and drug use.	found elsewhere (Prado et al., 2012).	Absolute change: -11.9 pct pts Relative change: -72.1% Narrative results: significant difference in the percentage of youth with an alcohol dependence diagnosis over time between groups (b = -1.16 , p = 0.02, i = 0.93) Favorable (Yes/No/No effect): Yes Statistical significance: Yes Outcome: Marijuana dependence Measure: Diagnostic Interview Schedule for Children (DISC) predictive scales Baseline Int (n=120): NR Comp (n=122): NR Follow-up (in months): 12 months Int (n=113): NR Comp (n=116): NR Absolute change: NA Relative change: NA Relative change: NA Narrative results: trend favoring intervention with a marijuana dependence diagnosis, no significant intervention effects were found (b = -0.49, p = 0.15, i = 0.93) Favorable (Yes/No/No effect): Yes Statistical significance: No Sexual intercourse while under the influence of alcohol or drugs Measure: how many days they got high on alcohol or drugs and engaged in sex in the past 90 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Growth curve analyses showed a significant difference in past 90-day having had sexual intercourse under the influence of alcohol or drugs between Familias Unidas and Community Practice ($b = -1.39$, $p =$ 0.025, $i = 1.04$). The proportion of youth reporting having had sex while under the influence of alcohol or drugs increased from 12.5% to 34.9% in youth randomized to Community Practice. In contrast, adolescents randomized to Familias Unidas reported no change in the proportion of youth having had sex under the influence of alcohol or drugs from baseline to 12 months post- baseline assessment.
Author (Year):	Setting: Mix	Brief description of	Brief description: Self-	Intention-to-treat analysis, Youth
Riesch et al. (2012)	(community and	interventions and content:	reported Health risk behaviors:	participation in alcohol, tobacco, and
	school)	Revised version of 14-session	21-item CHRBS (Children's	other drugs was very low and did not
Location: USA;		Strengthening Families Program	Health Risk Behavior Survey) &	differ post-program.
Wisconsin, Madison;	Urbanicity: Mixed	to examine the potential for	CSAP GPRA (Government	
Indiana, Indianapolis	(midsized/large urban)	ATOD prevention	Performance Required	Basic proportions conducted using
Years for Study: April	Eligibility: Speaking	Universal intervention designed	Accountability)	exact tests. No significant differences were documented in youth ATOD use
2003 - December 2005	English for adults and	to reduce risk factors (via family	Baseline (Time 1)	over time or between the intervention
	youth, youth in fifth	functioning) and build family	Post 1 (Time 2) = >1 mo	and comparison conditions.
Period for Study: 33	grade/aged 9 to 11,	capacity and coping skills to	Post 2 (Time 3) = 6 mo	
months	family intended to stay	access and use resources within		Outcome: Tobacco (smoking) Use
	in area for 8 months	their school and community to	Substance(s)*	Measure: 30-day frequency (Table 5)
Study Design: Group RCT	after enrollment	achieve child socialization goals	Alcohol, tobacco, and other drugs (ATOD)	smoked even one puff and smoked a whole cigarette

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
CG Suitability:	Recruitment: All	Materials: videotape, discussions,	Polysubstance measures? NO	Specific measure: Smoked even one
Greatest	public elementary	and manual/curriculum		puff
	schools with a 5 th grade		Outcome types	Baseline
Risk of Bias	in two Midwestern	Intervention/program name:	Intentions? NO	Int (n=86): NR
Assessment	cities	Strengthening Families Program	Initiation? NO	Comp (n=81): NR
a) Randomization-		10-14 (SFP 10-14)	Use? YES	Follow-up (in months): 6 months
Unclear	Wisconsin (Madison): 6		SU disorder? NO	Int (n=5): 7.6%
b) Concealment-	Indiana (Indianapolis):	Substance(s) focused*	Educational outcomes? NO	Comp (n=6): 9.1%
Unclear	10	General	Mental health? NO	Absolute Proportional Differences:
c) Blinding– High			Morbidity? NO	+0.01
d) Outcomes- Low	Enrollment rate of 14%	Format: face-to-face group (1 st	Mortality? NO	Absolute change (post): -1.5 pct pts
e) Selective- Low	(Madison) and 22%	hr parent-child separated, 2 nd hr	Equity? NO	Relative change (post): -16.4%
	(Indianapolis)	parent-child together)		Narrative results: Exact alpha, 0.87
			Other outcomes? Yes	Favorable (Yes/No/No effect): No effect
	Inclusion/Exclusion:	Intervention intensity: No	Family functioning (family	Statistical significance: NS (CI: -0.10,
	NR	booster, staff telephoned and	cohesion, involvement,	0.12)
		mailed reminders to adults	supervision, and open	
	Sample size	Number of sessions or modules:	communication); stratified by	Outcome: Tobacco (smoking) Use
	Baseline (Time 1): 167	7	high and low dosage	Specific measure: Smoked whole
	Int (86)	Number of hours per session: 2		cigarette
	Control (81)	Total hours of intervention: 14		Baseline
	Follow-up (Time 3 -		?	Int (n=86): NR
	Post 2)	Additional components		Comp (n=81): NR
	Int (66)	Meals provided (on-time		Follow-up (in months): 6 months
	Control (59)	incentive), transportation and		Int (n=2): 3.0%
		childcare vouchers, neutral		Comp (n=3): 4.5%
	Loss to f/u (Time 3 -	content newsletters		Absolute Proportional Differences:
	Post 2)			+0.09
	Attrition = 25%	Implementer(s)		Relative change: NR
	(42/167)	Trained staff from communities		Narrative results: Exact alpha, 0.86
	Int (20), Control (22)	(similar racially, ethnically, and		Favorable (Yes/No/No effect): No effect
	(Used figure 1 to	socioeconomically).		Statistical significance: NS (CI: -0.45,
	calculate attrition)	3-person teams: trained		0.61)
		facilitators conducted 10 groups		
		(5 Madison, 5 Indianapolis).		Outcome: Tobacco (chewing) Use
		Group size average of 8		Measure: 30-day frequency (Table 5)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Study population:			
	Parents and	Intervention duration:		Baseline
	Caregivers	7 weeks		Int (n=86): NR
	Age: 38.7 Mean (Range			Comp (n=81): NR
	21-66)	Focus of intervention		Follow-up (in months): 6 months
	Sex: Female 91%, Male	activities:		Int (n=3): 4.5%
	9%	Both parents/caregivers and		Comp (n=5): 7.6%
	Race/ethnicity:	youth: Yes		Absolute Proportional Differences:
	African American 55%	Parents only: No		+0.02
	Asian 1%			Absolute change (post): -3.1 pct pts
	Alaska Native/Native	Parent and child (either in the		Relative change (post): -40.8%
	American 1%	same session or not)? Yes		Narrative results: Exact alpha, 0.55
	Hispanic 5%	Parent and child in the same		Favorable (Yes/No/No effect): No effect
	Euro-American 37%	session/activity? Yes		Statistical significance: NS (CI: -0.06,
	Missing 1%			0.13)
		Comparison group:		
	Grade school 1%	No intervention, participated only		Outcome: Alcohol Use
	Some high school 12%	in data collection procedures. No		Measure: 30-day frequency (Table 5)
	High school 24%	comparison families reported		Drank wine, beer, or liquor without
	Some college 20%	participation in another family		parent permission
	College 20%	skill building or parenting		Baseline
	Trade or technical	program. Received neutral		Int (n=86): NR
	college 5%	content newsletters		Comp (n=81): NR
	Post-college 15%			Follow-up (in months): 6 months
	Missing 4%			Int (n=1): 1.5%
	Employment			Comp (n=1): 1.5%
	Full-time 45%			Absolute Proportional Differences:
	Part-time 20%			0.00
	Not employed 31%			Absolute (post): 0 pct pts
	Missing 4%			Relative change: NR
	Income:			Narrative results: Exact alpha, 1.00
	\$0-\$5,000, 5%			Favorable (Yes/No/No effect): No effect
	\$5,001-10,000, 14%			Statistical significance: NS (CI: -0.07,
	\$10,001-15,000, 8%			0.06)
	\$15,001-20,000, 16%			
	\$20,001-25,000, 8%			Outcome: Cannabis Use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	\$25,001-30,000, 1%			Measure: 30-day frequency (Table 5)
	\$30,001-35,000, 8%			
	\$35,001-40,000, 4%			Baseline
	\$40,001-45,000, 1%			Int (n=86): NR
	\$45,001-50,000, 2%			Comp (n=81): NR
	>\$50,000, 29%			Follow-up (in months): 6 months
	Missing, 4%			Int (n=NR): 3.0%
	Marital status:			Comp (n=NR): 1.5%
	Adult w/partner			Absolute Proportional Differences:
	Yes 40%, No 60%			+0.01
	Other			Absolute change (post): +1.5 pct
	Public Assistance –			pts
	Yes 60%, No 40%			Relative change (post): +100%
	Poverty Index –			Narrative results: Exact alpha, 0.65
	High 41% Low 59%			Favorable (Yes/No/No effect): No or No
				effect
	Study Population:			Statistical significance: NS (CI: -0.09,
	Youth			0.05)
	Age: 10.8 mean			
	(Range 10-12)			Outcome: Other drugs (Inhalants)
	Grade level(s): 5 th			Use
	grade			Measure: 30-day frequency (Table 5)
	Sex: Female 47%, Male			
	51%, Missing 2%			Baseline
	Race/ethnicity:			Int (n=86): NR
	African American 56%			Comp (n=81): NR
	Asian 1%			Follow-up (in months): 6 months
	Alaska Native/Native			Int (n=0): 0.00
	American 1%			Comp (n=0): 0.00
	Hispanic 4%			Absolute Proportional Differences:
	Euro-American 35%			0.00
	Other 1%			Relative change: NR
	Missing 3%			Narrative results: NR
				Favorable (Yes/No/No effect): No effect
	Community			Statistical significance: No
	characteristics:			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Schools stratified by race - high minority (<60%) or low (>60%) minority enrollment. 60% chosen because it constituted high minority enrollment in			Post-hoc analysis: secondary outcomes, Figure 2 contain effect sizes, by full dose (>=5 sessions) versus partial dose (<=4)
	Madison, Wisconsin.			
Schinke et al. (2009a)	Setting: Home Urbanicity: NR	Brief description of interventions and content: Computer-based intervention for	Brief description: Youth self- reported online alcohol use and intentions	Outcome variables were examined with general linear model repeated- measures analyses. outcome variables
Location: USA; New	(presumed mixed)	mother-daughters (website or	Intentions	comprised the within-subject factor;
York, New Jersey,		CD-Rom)	Girls were asked to reflect on	study arm assignment was the
Connecticut	Eligibility: Adolescent		the past week, month, and	between-subject factor; and girls' ages
	girls ages 10-13 years	Family interaction theory:	year to report their	and ethnic-racial back grounds and
	of age and mothers in	Gender-specific prevention	consumption of beer, wine, and	mothers' ages and education were
	study region	program had two aims: (1)	distilled spirits, responding to	covariates.
Period for Study: 3		enhance the quality of girls'	such questions as, "How often	
months (2-month f/u)	Recruitment:	relationships with their mothers	in the last week have you	Effect size was calculated by eta
	recruited through	and (2) teach girls cognitive	had alcohol to drink?"	squared All analyses were conducted at
	newspaper	behavioral skills to avoid		p < .05.
Individual RCT (mother-		underage drinking. To accomplish		
daughter dyads)	postings on	these aims, girls and their	Alcohol	Outcome: Alcohol use in the last 30
	Craiglist.org.	mothers interactively completed		days
CG Suitability:		14 computer-mediated	Polysubstance measures? No	Measure: Number of drinks in last 30
Greatest	•	intervention modules.		days
	Girls and mothers		Outcome types	
Risk of Bias	needed private access	Intervention name: NR	Intentions? Yes	Baseline
	to personal computer		Initiation? No	Int (n=101): 0.33 (SD 0.47)
a) Randomization-	Comple sizes	Substance(s) focused*	Use? Yes	Comp (n=101): 0.30 (SD 0.46)
Unclear	Sample size:	Alcohol	SU disorder? No	Follow-up: 2 months
-	Interest: 380 dyads	Formati Domoto Computer	Educational outcomes? No	Int (n=99): 0.26 (SD 0.44)
Unclear	Baseline: 202 dyads	Format: Remote: Computer	Mental health? No	Comp (n=100): 0.30 (SD 0.46)
c) Blinding- High	Stratified by age and	program	Morbidity? No	Absolute change: -0.07 instances in
d) Outcomes- Low	ethnic-racial		Mortality? No	30 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
e) Selective- Low	background, girls were	Intervention intensity:	Equity? No	Relative change: -21.2%
,	randomly divided	Number of modules: 14 to be		Narrative results: F intervention x
	between intervention	completed in 3 weeks	Other outcomes? Yes	time =3.96 p<0.05
	and control arms;	Number of hours per session: NR	Mother-daughter	Favorable: Yes
	Bsline 2m F/u	Total hours of intervention: NR	communication	Statistical significance: Yes
	Intervention:		Family rules	
	NR (101) (99)	Additional components:	Parent monitoring	Outcome: Alcohol use in the last 7
	Control:	None (incentives for both arms		days
	NR (101) (100)	for participation)		Measure: Number of drinks in last 7
	Follow-up: 199			days
	(98.5%) of 202 dyads	Implementer(s): NA		
	Loss to f/u: 1.5%	Computer program content		Baseline
				Int (n=101): 0.17 (SD 0.38)
	Study population:	Intervention duration: 3		Comp (n=101): 0.10 (SD 0.30)
	Parents (mothers)	weeks		Follow-up: 2 months
	and Caregivers (Int)			Int (n=99): 0.08 (SD 0.27)
	Age: mean 41.07 years	Focus of intervention		Comp (n=100): 0.16 (SD 0.37)
	Sex: 100% female	activities:		Absolute change: -0.15 instances in
	Race/ethnicity: NR	Both parents/caregivers and		7 days
	Education: NR	youth: Yes		Relative change: -70.58%
	Employment: NR	Parents only: No		Narrative results: F intervention x
	Income: NR			time =4.74 p<0.01
	Marital status:	Parent and child in the same		Favorable: Yes
	Single parent: NR	session/activity? Yes		Statistical significance: Yes
	Two parent: NR			
		Comparison group: No		Outcome: Alcohol use in the last
	Study Population:	intervention group (delayed		year
	Youth (Int)	intervention)		Measure: Instances of drinks in the last
	Age: mean 12.2 years			year
	Grade level(s): NR			
	ages 10-13			Baseline
	Sex: 100% female			Int (n=101): 0.47 (SD 0.50)
	Race/ethnicity:			Comp (n=101): 0.35 (SD 0.48)
	Black 9.5%			Follow-up: 2 months
	White 67.8%			Int (n=99): 0.35 (SD 0.48)
	Latina 14.1%			Comp (n=100): 0.39 (SD 0.49)

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Asian 0.5% Other: 8% Community characteristics: NR			Absolute change: -0.16 instances in 1 year Relative change: -36.9% Narrative results: F intervention x time =6.18 p<0.01 Favorable: Yes Statistical significance: Yes
				Outcome: Intentions to drink alcohol when they become adults Measure: Scale (5 item) score
				Baseline Int (n=101): 4.22 (SD: 2.73) Comp (n=101): 4.90 (SD: 2.95) Follow-up: 2 months Int (n=99): 3.35 (SD: 2.34) Comp (n=100): 3.98 (SD: 2.72) Absolute change: Scale score +0.05 points
				Relative change: NR Narrative results: F intervention= 4.98 (p<0.05) but F intervention x time =0.02 (NR) Favorable: No Statistical significance: Yes
Author (Year): Schinke et al. (2009b)	Setting: Home Urbanicity: NR	Brief description of interventions and content: Computer-based intervention for	Brief description: Youth self- reported online	Differences between study arms and across baseline and 1- and 2-year follow-up measurements were tested
Location: USA; New York City, eastern New Jersey, southern Connecticut	(presumed mixed) Eligibility: Adolescent	CD-ROM modules to complete)		by a repeated-measures general linear analytic model. Tests of intervention by measurement interactions adjusted for girls' age and ethnic-racial background
	years of age and	theory, the program focused on fostering parent-child	and	and for mothers' age and head of-household status.

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Years for Study:	mothers in study	attachment, supervision, and	prescription and over-the-	
2006-09	region	support to reduce risk factors	counter drugs for nonmedical	Outcome: Cigarette use
		and build protective factors.	purposes over the past 30 days	Measure: Instances of use in last 30
Period for Study: 24	Recruitment:	Program exercises taught		days
months	Recruitment vehicles	mothers and daughters the value	Substance(s)*	
	were postings on	of listening to each other,	Cigarettes, alcohol, marijuana,	Baseline
Study Design:	craigslist.org and	spending time together,	inhalants, prescription, and	Int (n=458): 1.02 (SD 0.2)
Individual RCT (mother-	advertisements in	understanding one another's	over-the-counter drug use	Comp (n=458): 1.04 (SD 0.3)
daughter dyads)	newspapers, posted on	personality, negotiating mutually		Follow-up: 24 months
	buses, and broadcast	agreeable decisions to problems,	Polysubstance measures? No	Int (n=415): 1.05 (SD 0.5)
CG Suitability:	on a popular New York	doing personal favors for one	(Intentions was a combined	Comp (n=413): 1.39 (SD 3.6)
Greatest	City radio station	another, and giving each	measure)	Absolute change: -0.32 instances in
		other praise and compliments.		30 days
Risk of Bias	Inclusion/Exclusion:		Outcome types	Relative change: -22.9%
Assessment	Girls and mothers	Intervention name: NR	Intentions? Yes	Narrative results: F=1.11 NS
a) Randomization-	needed to speak		Initiation? No	Favorable: Yes
Unclear	English and have	Substance(s) focused*	Use? Yes	Statistical significance: No
b) Concealment-	private access to	General substance use	SU disorder? No	_
Unclear	personal computer	prevention	Educational outcomes? No	Outcome: Alcohol use
c) Blinding– High			Mental health? Yes-depression	Measure: Instances of use in last 30
d) Outcomes- Low	Sample size:	Format: Remote: computer	Morbidity? No	days
e) Selective- Unclear	Contacted: 1702 dyads	program from web or CD-rom	Mortality? No	
,	Baseline: 916 dyads		Equity? Yes (demographics of	Baseline
	-	Intervention intensity:	participants but no stratified	Int (n=458): 0.14 (SD 0.2)
	Intervention:	Number of modules: $11(9 + 2)$	analyses)	Comp (n=458): 0.18 (SD 0.3)
	458 415	annual booster modules)	, ,	Follow-up: 24 months
	Control:	Number of hours per session: 45	Other outcomes? Yes	Int (n=415): 0.17 (SD 0.3)
	458 413	minutes	Depression (measured)	Comp (n=413): 0.33 (SD 0.7)
	Follow-up: 828	Total hours of intervention: 8.25	Mother-daughter	Absolute change: -0.12 instances in
	(90.4%) of 916	hours	communication	30 days
	Loss to f/u: 9.6%		Family rules	Relative change: 33.8%
		Additional components:	Parent monitoring	Narrative results : F = 5.20 p< 0.006
	Study population:	None (incentives for both arms	Body esteem	Favorable: Yes
	Parents (mothers)	for participation)		Statistical significance: Yes
	and Caregivers (Int)			
	Age: mean 39.9 years	Implementer(s): NA		Outcome: Marijuana use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: 100% female	Computer program content		Measure: Instances of use in last 30
	Race/ethnicity: NR			days
	Education:	Intervention duration: 9		
	<high school<="" td=""><td>weeks plus 2 booster modules</td><td></td><td>Baseline</td></high>	weeks plus 2 booster modules		Baseline
	6.3%			Int (n=458): 0.08 (SD 0.0)
	High school	Focus of intervention		Comp (n=458): 0.09 (SD 0.0)
	9.1%	activities:		Follow-up: 24 months
	Some college	Both parents/caregivers and		Int (n=415): 0.1 (SD 0.1)
	28.3%	youth: Yes		Comp (n=413): 0.2 (SD 0.7)
	A.A. or B.A. degree	Parents only: No		Absolute change:
	42.6%			-0.09 instances in 30 days
	Graduate degree	Parent and child in the same		Relative change: -43.75%
	13.7%	session/activity? Yes		Narrative results : F =4.12 p<0.016
	Employment: NR			Favorable: Yes
	Income: NR	Comparison group: No		Statistical significance: Yes
	Marital status: Family	intervention for control		
	status			Outcome: Illicit prescription drug
	Single parent: 43.7%			(mis)use
	Two parent: 56.3%			Measure: Instances of use in last 30
				days
	Study Population:			
	Youth (Int)			Baseline
	Age: mean 12.76 years			Int (n=458): 0.12 (SD 0.2)
	Grade level(s): NR			Comp (n=458): 0.09 (SD 0.1)
	ages 11-13			Follow-up: 24 months
	Sex: 100% female			Int (n=415): 0.09 (SD 0.1)
	Race/ethnicity:			Comp (n=413): 0.11 (SD 0.2)
	Black 40.6%			Absolute change: -0.05 instances in
	White 23.2%			30 days
	Latina 23.1%			Relative change: -38.7%
	Asian 10.8%			Narrative results: F=3.58 p<0.03
	Other 1.7%			Favorable: Yes
	Other: Grades			Statistical significance: Yes
	A's 9.1%			
	B's 42.3%			Outcome: Inhalants use
	C's 13.4%			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	D's and below 5.2% Community characteristics: NR			Measure: Instances of use in last 30 days Baseline Int (n=458): 0.04 (SD 0.3) Comp (n=458): 0.01 (SD 0.1) Follow-up: 24 months Int (n=415): 0.02 (SD 0.1) Comp (n=413): 0.03 (SD 0.2) Absolute change: -0.04 instances in 30 days Relative change: -83.3% Narrative results : $F = 3.72 \text{ p} < 0.024$ Favorable: Yes Statistical significance: Yes Outcome: Intentions to use Measure: Scale (5 item) score Baseline Int (n=458): 0.98 (SD 1.0) Comp (n=458): 0.98 (SD 1.1) Follow-up: 24 months Int (n=415): 1.1 (SD 1.2) Comp (n=413): 1.5 (SD 1.4) Absolute change: Scale score -0.4 points Relative results : $F = 10.38$ p<0.0001 Favorable: Yes Statistical significance: Yes
Author (Year): Schinke et al. (2009c)	Setting: Home	Brief description of interventions and content:	Brief description: Youth self- reported online	Generalized estimating equations (GEE) adjusted for age, ethnic-racial

Study	Population	Intervention	Outcomes	Results
	Characteristics	Characteristics		
Location: USA; New	Urbanicity: NR	Computer-based intervention for	Primary outcomes for the study	group membership, and household
York, New Jersey,	(presumed mixed)	mother-daughters	were assessed by scales asking	composition,
Connecticut			girls to report their use of	To examine overall intervention effects,
	Eligibility: Adolescent	Informed by family interaction	cigarettes, alcohol, marijuana,	GEE analyses were repeated across
Years for Study:	girls ages 11, 12, or 13	theory, the program focused on	and	baseline, post-intervention, 1- year
2006-2008	years of age and	fostering parent-child	prescription and over-the-	follow-up measurements. GEE analyses
	mothers/caregivers in	attachment, supervision, and	counter drugs for nonmedical	yielded the Wald test statistic.
Period for Study: 12	study region	support to reduce risk factors	purposes over the past 30 days	
months		and build protective factors		Outcome: Cigarette use
	Recruitment:	associated with the prevention of	Substance(s)*	Measure: Instances of use in last 30
Study Design:	recruited through	smoking, drinking, and illicit drug	Cigarettes, alcohol, marijuana,	days
Individual RCT (mother-	advertisements posted	taking by adolescent girls.	prescription, and over-the-	
daughter dyads)	in local newspapers,		counter drug use	Baseline
	online, in subway trains	Intervention name: NR		Int (n=252): 0.03 (SD 0.24)
CG Suitability:	and buses, and		Polysubstance measures? No	Comp (n=339): 0.03 (SD 0.27)
Greatest	broadcast on the radio.	Substance(s) focused*		Follow-up: 12 months
		Smoking (cigarettes), drinking	Outcome types	Int (n=205): 0.05 (SD 0.5)
Risk of Bias	Inclusion/Exclusion:	(alcohol), illicit drug use	Intentions? Yes	Comp (n=327): 0.11 (SD 1.08)
Assessment	Girls and mothers		Initiation? No	Absolute change: -0.06 instances in
a) Randomization-	needed private access	Format: Remote: computer	Use? Yes	30 days
Unclear	to personal computer	program	SU disorder? No	Relative change: -54,5%
b) Concealment-			Educational outcomes? No	Narrative results: Wald X2 = 0.73 NR
Unclear	Sample size:	Intervention intensity:	Mental health? Yes-depression	Favorable: Yes
c) Blinding- Low	Baseline: 591 dyads	Number of modules: 9	Morbidity? No	Statistical significance: No
d) Outcomes- Low	Bsline 1yr F/u	Number of hours per session: 45	Mortality? No	
e) Selective- Low	Intervention:	minutes	Equity? No	Outcome: Alcohol use
	252 205	Total hours of intervention: 6.75		Measure: Instances of use in last 30
	Control:	hours	Other outcomes? Yes	days
	339 327		Mother-daughter	
	Follow-up:	Additional components:	communication	Baseline
	532 (90%) of 591	None (incentives for both arms	Family rules	Int (n=252): 0.15 (SD 0.17)
	Loss to f/u: 10%	for participation)	Parent monitoring	Comp (n=339): 0.16 (SD 0.31)
			Body esteem	12-month follow-up
	Study population:	Implementer(s): NA		Int (n=205): 0.17 (SD 0.32)
	Parents (mothers)	Computer program content		Comp (n=327): 0.31 (SD 0.61)
	and Caregivers (Int)			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		Intervention duration: 9 weeks Focus of intervention activities: Both parents/caregivers and youth: Yes Parents only: No Parent and child in the same session/activity? Yes		Absolute change: -0.13 instances in 30 days Relative change: -41.5% Narrative results: Wald X2 =6.11 p<0.05 Favorable: Yes Statistical significance: Yes Outcome: Marijuana use Measure: Instances of use in last 30 days
	Youth (Int) Age: mean 12.64 years Grade level(s): NR ages 11-13 Sex: 100% female Race/ethnicity: Black 38.9% White 38.9% Latina 22.2% Other: NR Community characteristics: NR	Comparison group: No intervention for control		Baseline Int (n=252): 0.08 (SD 0.01) Comp (n=339): 0.08 (SD 0.02 Follow-up: 12 months Int (n=205): 0.1 (SD 0.13) Comp (n=327): 0.2 (SD 0.65) Absolute change: -0.1 instances in 30 days Relative change: -50.0% Narrative results : Wald X2 =6.75 p<0.01 Favorable: Yes Statistical significance: Yes
				Outcome: Prescription drug (mis)use Measure: Instances of use in last 30 days Baseline Int (n=252): 0.21 (SD 0.96) Comp (n=339): 0.10 (SD 0.47) Follow-up: 12 months Int (n=205): 0.06 (SD 0.46)

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Comp (n=327): 0.17 (SD 1.58) Absolute change: -0.22 instances in 30 days Relative change: -83.2% Narrative results : Wald X2 =12.45 p<0.0001 Favorable: Yes Statistical significance: Yes Outcome: Intentions to use Measure: Scale (5 item) score Baseline Int (n=252): 1.92 Comp (n=339): 1.94 Follow-up: 12 months Int (n=205): 2.16 Comp (n=327): 3.04 Absolute change: Scale score -0.86 points Relative change: NR Narrative results: Wald score 8.02 p<0.01 Favorable: Yes Statistical significance: Yes
Author (Year): Schinke et al. (2010)	Setting: Home and Community (Mixed)	Brief description of interventions and content:	Brief description: Youth self- reported alcohol use,	Repeated measures MANOVA -baseline group differences by
Related papers: Schwinn et al., 2010;	Urbanicity: Urban	Computer-based alcohol prevention intervention with both youth and parent components	intentions, influences. Cigarette use, and marijuana use	race/ethnicity were significant precluding stratified analyses on these characteristics
Schinke et al., 2004 Location: USA; New York City, New Jersey, Delaware	Eligibility: Youth at community agencies ages 10-12 years (youth and parent consent to participate)	Intervention/program name: NR Substance(s) focused*	Substance(s)* Alcohol, cigarettes, marijuana	7-year follow-up results combined intervention arms for significance testing vs control, but reported raw data separately in Table 2

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		Alcohol	Polysubstance measures	
Years for Study: NR	Recruitment: Youths		(Yes/No)? No	Outcome: Alcohol use
	were recruited from 43	Format: Remote: Computer CD-		Measure: Self-reported (mean) number
Period for Study: 7	New York City, New	rom or online content, printed	Outcome types	of times of use in the previous 30 days
years (84 months)	Jersey and Delaware	materials	Intentions? Yes	
	community agencies		Initiation? No	Baseline
Study Design: Group	offering such services	Youth components	Use? Yes	Int (n=162): 0.07 (SD 0.5)
RCT	as recreation, after-	Primary: 10 computer modules	SU disorder?	Comp (n=163): 0.05 (SD 0.3)
	school programs and	each 45 minutes. Program	Educational outcomes? No	Follow-up: 84 months (7 year f/u)
CG Suitability:	social services.	covered skills and practices for	Mental health? No	Int (n=127): 2.51 (SE 0.6)
Greatest	Inclusion/Exclusion:	goal setting, coping, peer	Morbidity? No	Comp (n=139): 4.25 (SE 0.6)
		pressure, refusal skills, norm	Mortality? No	Absolute change: -1.76 instances in
Risk of Bias	Sample size: NR	correcting, self-efficacy,	Equity? Yes, intervention	30 days
Assessment	Baseline: 514 youth	problem solving, decision	content was culturally tailored.	Relative change: -57.8%
a) Randomization-	and their parent(s)	making, effective communication	Study did not stratify results on	Narrative results: Relative to youths
Unclear	randomly assigned by	and time management.	race/ethnicity due to significant	assigned to the control arm, those who
b) Concealment-	community to study		group differences at baseline	participated in the prevention program
Unclear	arm	Boosters: Annual, 30-minute		(combined intervention arms) reported
c) Blinding– High		computer (CD or online) module	Other outcomes? Yes	fewer instances in the past 30-days of
d) Outcomes- Low	Follow-up: Youth-		Binge drinking alcohol use	alcohol consumption ($p < .05$).
e) Selective- High	Parent arm	Parent components	Family communication	Favorable (Yes/No/No effect): Yes
	3 years 88.2%	Primary: Videotape (30 minutes)	Peer influences	Statistical significance: NR
	6 years: NR (80.5%	and print materials in English and		
	overall)	Spanish.		Outcome: Alcohol Binge Drinking
	7 years NR (79.7%	Informed by family interaction		(use)
	overall)	theory, the parent intervention		Measure: Self-reported instances of \geq 5
	Loss to f/u: Youth-	sought to prevent underage		alcohol drinks in a row in the previous
	Parent arm at 3 years	drinking by increasing youths'		30 days
	was 11.8% and 21.6%	attachment to parents and by		
	at 7 follow-ups	enhancing parents' awareness		Baseline
		and support of the program		Int (n=162): 0.0 (SD 0.0)
	Study population:	objectives, components and		Comp (n=163): 0.03 (SD 0.2)
	Parents and	strategies.		Follow-up: 84 months (7-year f/u)
	Caregivers			Int (n=127): 0.76 (SE 0.5)
	Age: NR	Newsletters for parents (2)		Comp (n=139): 2.15 (SE 0.5)
	Sex: NR			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Race/ethnicity: NR	Boosters: Year 1 Two-hour		Absolute change: -1.39 instances in
	Education: NR	workshop + printed manual with		30 days
	Employment: NR	home activities		Relative change (post): -64.6%
	Income: NR			Narrative results: Relative to youths
	Marital status: NR	Annual boosters: CD or digital		assigned to the control arm, those who
	Other: Spanish	audio recordings with parent and		participated in the prevention program
	preferred language	youth content and activities		(combined intervention arms) reported
	11.5%			fewer instances in the past 30-days of
		Intervention intensity:		binge drinking (p < .05)
	Study Population:	Youth: Number of modules:		Favorable (Yes/No/No effect): Yes
	Youth	10 45-minute modules + 30-		Statistical significance: NR
	Age: mean 11.5 years	minute booster module annually		
	(10-12)	(10-12 hours total)		Outcome: Cigarette use
	Grade level(s): NR	Number of hours per session:		Measure: Self-reported (mean) number
	Sex: 51% female; 49%	30-45 minutes		of times of use in the previous 30 days
	male	Total hours of intervention:10-11		
	Race/ethnicity:	hours		Baseline
	Black 54%			Int (n=162): 0.16 (SD 2.0)
	Hispanic 30%	Parent: 1 30-minute videotape		Comp (n=163): 0.05 (SD 0.5)
	White 11%	and one 2-hour workshop plus		Follow-up: 84 months
	Asian or other 5%	printed materials and newsletters		Int (n=127): 7.82 (SE 4.4)
	Other: Speaks English	Number of hours per session: 30		Comp (n=139): 20.79 (SE 4.2)
	100%	minutes		Absolute change: -13.08 instances in
		Total hours of intervention: 5		30 days
	Community	hours		Relative change: -88.2%
	characteristics: NR			Narrative results: Relative to youths
		Additional components: Yes		assigned to the control arm, those who
		Incentives for participation for		participated in the prevention program
		youth		(combined intervention arms) reported
		Incentives for participation for		fewer instances of cigarette smoking
		parents		(p<0.05)
				Favorable: Yes
		Implementer(s): NR for		Statistical significance: NR
		parents workshop; NR for		
		computer and printed materials		Outcome: Marijuana use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		Intervention duration: NR, but		Measure: Self-reported (mean) number
		6-7 years (primary + annual		of times of use in the previous 30 days
		boosters)		
				Baseline
		Focus of intervention		Int (n=162): 0.04 (SD 0.5)
		activities:		Comp (n=163): 0.04 (SD 0.5)
		Both parents/caregivers and		Follow-up: 84 months
		youth: Yes		Int (n=127): 4.68 (SE 1.1)
		Parents only: No		Comp (n=139): 3.59 (SE 1.0)
				Absolute change: +1.09 instances in
		Parent and child in the same		30 days
		session/activity? No, but some		Relative change: +30.4%
		activities encouraged parent and		Narrative results: Marijuana use in
		youth engagement.		the previous 30 days increased in
		Parent and child not in the same		intervention arm youth compared to
		session/activity? Yes		control youth
				Favorable: No
		Comparison group:		Statistical significance: NR
		No intervention for control		
				Outcome: Youth intentions to drink
				alcohol in the future
				Measure: 10-point scale score of
				intentions
				Int (n=162): 1.74 (SD 1.3)
				Comp (n=163): 1.24 (SD 1.1)
				Follow-up: 84 months
				Int (n=127): 4.74 (SE 0.3)
				Comp (n=139): 5.57 (SE 0.3)
				Absolute change: -1.33 scale score
				points
				Relative change: NA Ranked score
				Narrative results: Relative to youths
				assigned to the control arm, those who
				participated in the prevention program
				(CD and CDP arms) reported lower

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				intentions to drink alcohol in the future (p < .05). Favorable: Yes Statistical significance: NR
Author (Year): Schinke et al. (2011) Location: USA; New York, New Jersey, and	Setting: Home Urbanicity: Mixed Eligibility:	Brief description of interventions and content: Drug abuse prevention program for joint mother-daughter involvement in various	Brief description: Self-report data Substance(s)* Tobacco, Alcohol, Cannabis,	For each outcome Rates of 30-day substance use for girls were low overall, except for alcohol consumption.
Connecticut	1) a daughter between the ages of 10 and 13	interactive activities	Prescription drug	Outcome: Tobacco use Measure: Mean 30-Day (past month's) cigarettes consumption rate
Years for Study: 2008 Period for Study: ~2.5 months	years, 2) have private access to a personal computer, and	Girls learned substance use statistics, stress management and coping skills	Polysubstance measures YES Outcome types Intentions? YES	Baseline Int (n= NR): 0.01 (0.09) Comp (n= NR): 0.01 (0.11)
Study Design: Individual RCT	3) provide assurance that daughter and mother would complete measurement and	Mothers learned family functioning skills (communication, involvement, supervision)	Initiation? NO Use? YES SU disorder? NO Educational outcomes? NO	Follow-up (in months): 2.5 months Int (n= NR): 0.01 (0.10) Comp (n= NR): 0.02 (0.12) Absolute change: -0.01 instances in
CG Suitability: Greatest	intervention procedures	Intervention/program name:	Mental health (depression and body esteem) YES Morbidity? NO	30 days Relative change: -50% Narrative results: F(1, 541), 0.21
Risk of Bias Assessment a) Randomization-	Postings on craigslist.org and from advertisements in New	Computer-delivered family intervention	Mortality? NO Equity (focused on one historically disadvantaged	Favorable (Yes/No/No effect): No effect Statistical significance: NS
Unclear b) Concealment– Unclear	York City newspapers Inclusion/Exclusion:	Substance(s) focused* General	group)? YES Other outcomes? YES	Outcome: Alcohol use Measure: Mean 30-Day (past month's) beer, wine, spirits consumption rate
c) Blinding– High d) Outcomes– Low e) Selective– High	Access to private computer and/or internet	Format: Remote [CD-ROM or online]	From daughters: Communication, family rules, self-efficacy,	Baseline Int (n= NR): 0.10 (0.30) Comp (n= NR): 0.09 (0.29) Follow up (in months): 2.5 months
	Sample size Baseline: 546 Intervention: 212	Intervention intensity: at least one session per week Number of sessions or modules: 10	parental involvement, beliefs From mothers:	Follow-up (in months): 2.5 months Int (n= NR): 0.09 (0.28) Comp (n= NR): 0.17 (0.38) Absolute change: -0.09 instances in 30 days

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Control: 334	Number of hours per session:	Communication, family rules,	Relative change: -52.3
		varied	parental involvement,	Narrative results : <i>F</i> (1,541) = 7.77
	Follow-up NR	Total hours of intervention:		Favorable (Yes/No/No effect): Yes,
		varied		intervention reduced alcohol use
	Loss to f/u NR			Statistical significance: Yes, F(1,541),
		Implementer(s)		p < .01
	Note: study reported	Computer		
	intervention and			Outcome: Cannabis use
		Intervention duration:		Measure: Mean 30-Day (past month's)
	reported intervention	~10 weeks		marijuana consumption rate
	population	Focus of intervention		Baseline
	characteristics below	activities:		Int (n= NR): 0.06 (0.45)
		Both parents/caregivers and		Comp (n= NR): 0.05 (0.35)
	Study population:	youth: Yes		Follow-up (in months): 2.5 months
	Parents and	Parents only: No		Int (n= NR): 0.01 (0.01)
	Caregivers (Int)			Comp (n= NR): 0.05 (0.22)
	Age: 40.44 (mean)	Parent and child (either in the		Absolute change: -0.05
	Sex: 100% female	same session or not)? Yes		Relative change: -83.3%
	Race/ethnicity: NR	Parent and child in the same		Narrative results : F (1, 541) = 2.11
	Education:	session/activity? Yes		Favorable (Yes/No/No effect): Yes
	< High school 7.5	_		Statistical significance: NS
	High school 8.5	Comparison group:		
	Some college 29.7	No intervention		Outcome: Prescription drug use
	College degree 34.9			Measure: Mean 30-Day (past month's)
	Post-graduate 17.0			recreational use of prescription drugs
	Employment NR			rate
	Income: NR			Baseline
	Marital status:			Int (n= NR): 0.01 (0.11)
	Single parent 52.4			Comp (n= NR): 0.03 (0.35)
	Partner/Married47.6			Follow-up (in months): 2.5 months
	Other NR			Int (n= NR): 0.00 (0.00)
				Comp (n= NR): 0.01 (0.22)
	Study Population:			Absolute change: +0.01
	Youth (Int)			Relative change: -100% (-33%)
	Age: 12.64 (Mean),			Narrative results: $F(1, 541) = 0.06$
	Range: 10-13			Favorable (Yes/No/No effect): Mixed

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Grade level(s): NR Sex: 100% female Race/ethnicity: 58% Black, 42% Hispanic American Other School grades A's 35.9 B's 50.2 C's and lower 13.9 Community characteristics: NR			Statistical significance: NS Outcome: intentions to use substances (tobacco, alcohol, and drug use) Measure: Mean of intentions to smoke, drink, and use drugs when adults Baseline Int (n= NR): 1.73 (1.01) Comp (n= NR): 1.76 (1.01) Follow-up (in months): 2.5 months Int (n= NR): 1.25 (0.88) Comp (n= NR): 1.44 (0.85) Absolute change: -0.16 Relative change: -0.16 Relative change: NR Narrative results : $F(1,541) = 4.99$ Favorable (Yes/No/No effect): Yes, intervention lower intentions Statistical significance: Yes, $F(1,539)$, p < .05
				Outcome: Depression Measure: Mean scale asking about their feelings over the past fortnight Baseline Int (n= NR): 1.34 (1.08) Comp (n= NR): 1.33 (1.05) Follow-up (in months): 2.5 months Int (n= NR): 1.15 (1.04) Comp (n= NR): 1.39 (1.05) Absolute change: -0.25 Relative change: NR Narrative results: $F(1,541) = 5.80$ Favorable (Yes/No/No effect): Yes, intervention lower levels of depression

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Statistical significance: Yes, $F(1,541)$, p < .05
				Outcome: body esteem
				Measure: scale with questions about the degree to which they were happy with the way they look Baseline
				Int (n= NR): 3.57 (1.49) Comp (n= NR): 3.64 (1.47) Follow-up (in months): 2.5 months
				Int (n= NR): 3.58 (1.42) Comp (n= NR): 3.47 (1.52) Absolute change: 0.18
				Relative change: NR
				Narrative results : F (1, 541) = 2.08 Favorable (Yes/No/No effect): No effect Statistical significance: NS
Author (Year): Scull	Setting: Home (and	Brief description of	Brief description:	Missingness on outcome variables was
et al. (2017)	mobile/digital)	interventions and content: Family-based, online media	Monitoring the Future Survey: Substance use: How often they	modeled under the missing-at-random assumption
Location: USA, North	Urbanicity: Rural	literacy education (MLE) program	used tobacco and alcohol in the	
Carolina and Texas		for substance abuse prevention	past 30 days. Children	Outcome: 30-day substance use
Veene fen Chuden ND	5 /	in children from rural areas	answered separately for alcohol	Measure: mean (SD)
Years for Study: NR	graders from 3 selected counties who owned a	Intervention/program name:	and tobacco use using a scale ranging from 1 (0 days) to 7	Baseline
Period for Study: 3	computer, had access	The Media	(all 30 days).	Int (n=47): 1.18 (.62)
months	to the Internet at	Detective Family Program		Comp $(n=36)$: 1.00 (.00)
	home, and spoke		Willingness to use substances:	Follow-up: 3 months
Study Design: Group	English	Substance(s) focused* General	Participants responded on a	Int (n=12): 1.01 (.05)
RCT	(one county is outside		scale ranging from 1 (not at all	Comp (n=22): 1.04 (.13)
	of a metropolitan area	Format: Web application using	willing) to 4 (very willing) to	Absolute change: +0.21 score points
CG Suitability:	one county is outside	computers as the mode of	items such as "Take one puff"	Relative change: NA Reported scale
Greatest	of a micropolitan area	program delivery	and "Smoke a whole cigarette.	score

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Risk of Bias	one county is not near	Parents and their children are		Narrative results: MDF yielded
Assessment (ROB2)	a metropolitan/	trained together to become	Substance(s)* Alcohol and	statistically significant reductions over
a) Randomization-	micropolitan area)	media detectives, who can solve	Tobacco	time on the key outcome of current
Some concerns		a series of mysteries that are		substance use, $b =102$
b) Deviations- Low	Recruitment: media,	related to advertising	Polysubstance measures	(.043), t=-2.29, p =.029, d=80.
c) Missing data- Low	flyers, community		(Yes/No)? Yes	Children who received MDF reported a
d) Outcomes- Some	event presence	Youth components: Media		significant reduction in their use of
concerns		literacy education (MLE) program	Outcome types	tobacco and alcohol over time as
e) Selective- Low	Families were	using family discussion, practice,	Intentions? Willingness to use?	opposed to children who did not
	randomized to the	and application using computer	Initiation? No	receive MDF
Overall bias: Some	intervention and	modules	Use? Yes	Favorable (Yes/No/No effect): Yes
concerns	control groups within	Introduce Mystery instructions	SU disorder? No	Statistical significance: Yes, from
	state and by gender at	Case 1 Product advertisements	Educational outcomes?	narrative report
	the pretest	Case 2 Target Audience	Mental health? No	
	assessment.	Case 3 Ad Hook to attract the	Morbidity? No	Outcome: Willingness to use
		target audience.	Mortality? No	substances
	Inclusion/exclusion:	Case 4 Address hidden messages		Measure: Mean (SD)
	NR	Case 5 Missing Information	Other outcomes? Yes	
		advertisers leave out health	Willingness to use or intention.	Baseline
	Sample size: 229	information from ads		Int (n=47): 1.05 (.21)
	families (parent-child	Conclusion All Five Clues	-Media deconstruction skills	Comp (n=30): 1.02 (.08)
	pairs)	(see Table 1)	-Parent-child communication	Follow-up: 3 months
	Baseline: 83 parent-		behaviors	Int (n=12): 1.05 (.24)
	child pairs (Int 47,	Parent components: Same as	-Program satisfaction	Comp (n=22): 1.03 (.09)
	Cont. 36)	youth		Absolute change: -0.01 pct pts
				Relative change: NA Report scale
		Intervention intensity: Parent		score
	Int 12 of 47 Loss to	and youth combined:		Narrative results: No statistically
	follow up: 75.5%	Number of modules: 7 lessons		significant differences over time in
	Cont. 22 of 36 Loss to	Number of hours per session: NR		child's self-reported willingness to use
	follow up: 38.8%	Total hours of intervention: 3 hrs		substances were found between the
		Lessons are completed on		intervention and control groups.
	Study population:	demand and are self-paced		However, compared to the control
	Parents and			group, children receiving MDF yielded
	Caregivers	Additional components: NR		meaningful changes with respect to
	Age: NR			effect size on both willingness to try

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: NR	Implementer(s): web		alcohol (d = -0.22) and willingness to
	Race/ethnicity: NR	application as the mode of		try cigarettes (d=-0.50).
	Education: NR	program delivery		Favorable (Yes/No/No effect): Yes
	Employment: NR			Statistical significance: No from
	Income: NR	Intervention duration: NR		narrative report
	Marital status: NR			
	Other: NR	Focus of intervention activities:		
	Study Population:	Both parents/caregivers and		
	Youth	youth: Yes		
	Age: NR	Parents only: No		
	Grade level(s): 36%			
	third grade, 33% in	Comparison group: Control		
	fourth grade, 31% in	group families received a CD-		
	fifth grade	ROM copy of Hasbro's Family		
	Sex: 52% female; 48%	Game Night (FGN) to use on		
	male	their computers or gaming		
	Race/ethnicity: NR	systems (e.g., Wii). FGN is a		
	Black NR	minigame collection with six		
	Hispanic NR	digitized classic board games		
	White NR	(i.e., Yahtzee, sorry!) that can be		
	Asian or other NR	played with up to four players.		
		This control program contains no		
	Community	media literacy education or		
	characteristics:	substance abuse prevention		
	Demographic	programming.		
	composition			
	of families in the			
	intervention and			
	control groups who			
	dropped out of the			
	study was similar (i.e.,			
	male parent: 16%,			
	9%; White parent:			
	75%, 85%; non-			
	Hispanic parent: 93%,			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	100%; mean parent age: 39, 37; male child: 47%, 61%; White child: 80%, 84%; non-Hispanic child: 90%, 92%;			
	(Mean child age: 9.9).			
Author (Year): Simons-Morton et al. (2005)	Setting: school (adolescents); home (parents)	Brief description of interventions and content: Social skills curriculum, parent education, school/academic	Brief description: Waves T1: beginning 6 th grade T1: end 6 th grade	Not intent to treat analysis; of 1484 in final sample, 164 study participants not included in final analyses because they did not provide data on smoking
Location: USA, Maryland	Urbanicity: NR	environment enhancement and commitment to school; alter	T1: end 7 th grade T1: end 8 th grade	on all five surveys.
	Eligibility: students in	perceptions, attitudes, antisocial	T5: beginning 9 th grade	Treatment group effects examined
Years for Study: Fall	6 th grade at selected	behavior, expectations about		using Latent Growth Curve; to control
1996-Fall 1999	middle school in Maryland who	substance use; and reduce multiple problem behaviors	Overall mean scale (4 pt): Smoking/Drinking Variables:	for baseline differences in outcomes, ANCOVA performed comparing the
Period for Study: 48	completed consent		never (nonusers),	follow-up measures using the baseline
months	form, did not receive failing grade or become	Adolescents Curriculum: problem solving, communication, self-	-future intent (intenders), 12-month (12-month user)	of the outcome as a covariate.
Study Design: Group RCT	newly classified as special education, did not move out of school	control, and conflict resolution Included video tape with actors	30-day (recent users), 3 or more times in past 30 days (frequent users)	Outcome: Tobacco (Smoking) Use Measure: means (prevalence) smoking stage (score)
CG Suitability:	district, and provided	of common problems and		
Greatest	smoking data for all five assessments	problem-solving approaches then brief teacher-lead discussion of	Questions -# times in past 30 days and	Baseline Int (n= 692): 0.15 (0.52)
Risk of Bias		relevant skills, interactive group	past 12 months they smoked	Comp (n=628): 0.23 (0.68)
Assessment (ROB2)	Recruitment: 7	activities and role plays, and	cigarette and drank alcohol	Follow-up (in months): 40 months
a) Randomization-	middle schools in	skills practice with constructive	-how often they intend to	Int (n= 692): 0.85 (1.32)
Unclear	Maryland; 3	feedback.	smoke/drink in high school	Comp (n= 628): 1.11 (1.50)
b) Concealment-	treatments, 4 control			Absolute change: -0.18 score points
Unclear		Students assigned homework	Antisocial behavior: how often	Relative change: NA
c) Blinding- Low	=	that required involvement of a	in past year youth in physical	Narrative results: Figure 1, average
d) Outcomes- High e) Selective- Low	above	parent or guardian.	fight, in physical fight and someone got hurt, bullied or	smoking stage lower for treatment group than control.

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sample size:	Parent education: parental	picked on someone younger or	analyses indicate significant differences
	Baseline: 1484 (2651	monitoring, involvement, and	weaker, lied to a parent or	at S6 (F1,1317=6.06, p=0.014), S7
	provided consent at	expectations regarding academic	guardian about where they	(F1,1317=12.2, p=0.001), and F9
	baseline, but authors	engagement and problem	were or whom they were with,	(F1,1317=8.4, p=0.004), with control
	use final sample as	behavior; mailed 20-min video	gone someplace dangerous or	group having significantly higher
	1484)	on authoritative parenting, 20-	off-limits, stole something from	smoking stages when the F6 baseline
	Follow-up: 1320 (only	page booklet and periodic	person or store or carried a	value was partialed out
	included those who	newsletters.	weapon.	Favorable (Yes/No/No effect): Yes
	completed all 5			Statistical significance: Yes (shown
	surveys; 89%)	Intervention/program name:	Substance(s)*	above)
	Loss to f/u: 11%	Going Places	alcohol, tobacco	
				Analysis Group: Black vs white
	Note: for population	Substance(s) focused* smoking,	Polysubstance measures	Baseline
	characteristics, if study	alcohol (similar time spent on	(Yes/No)? No	Black (n=273): 0.17 (0.60)
	reported total number	smoking, alcohol and antisocial		White (n=939): 0.20 (0.60)
	for intervention and	behavior)	Outcome types	Follow-up (in months): 40
	control groups, report		Intentions? Yes	Black (n=273): 0.89 (1.36)
	the total. If study	Format:	Initiation? Yes	White (n=939): 1.02 (1.44)
	reported intervention	Adolescents: face-to-face group,	Use? Yes	Absolute change: -0.10 score points
	and control separately,	printed materials	SU disorder? No	Relative change: NA
	report intervention	Parents: remote, printed	Educational outcomes (test	Narrative results: Race, not a
	population	materials	score; attainment; grade	significant predictor of slope in added
	characteristics		retention; disciplinary actions;	growth factor model (Fig 2)
		Intervention intensity:	etc.)? No	Favorable (Yes/No/No effect): Yes,
	Study population:	informational "roll-outs"	Mental health (depressive	lower rate of increase in Blacks than
	Parents and	preceding each unit; posters and	symptoms; anxiety; etc.): Yes	whites
	Caregivers	short video segments presented	(Antisocial behavior)	Statistical significance: NS
	Age: NR	in the cafeteria and display areas	Morbidity? No	
	Sex: NR	Number of sessions or modules:	Mortality? No	Analysis Group: Female vs male
	Race/ethnicity: NR	36 sessions (6 th grade 18	Equity (stratified analysis)?	Baseline
	Education: NR	sessions, 7 th grade 12 sessions,	Yes (sex and race)	Female (n=750): 0.17 (0.34)
	Employment: NR	8 th grade 6 sessions)		Male (n=570): 0.23 (0.68)
	Income: NR	Number of hours per session: NR	Other outcomes?	Follow-up (in months): 40
	Marital status: NR	Total hours of intervention: NR	Social competence,	Female (n=750): 1.05 (1.43)
	Other: NR		Deviance acceptance,	Male (n=570): 0.87 (1.38)
			Parental expectations,	Absolute change: +0.24 score points

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Below based on	Additional components (things	School climate,	Relative change: NA
	(n=1465 antisocial	outside sessions/modules)	Problem behaving friends (how	Narrative results: Gender, significant
	behavior in Table 1)		many of five closest friends (0-	predictor of slope in added growth
	Study Population:	Enhanced school environment:	5) smoke drink alcohol, cheat	factor (Fig 2), girls progressed
	Youth	social marketing strategies to	on a test, bully someone, act	relatively faster than boys
	Age: NR	improve school climate, reinforce		Favorable (Yes/No/No effect): No
	Grade level(s):	student achievement, establish	parents, or damage property)	Statistical significance: Yes, for
	beginning 6 th to 9 th	prosocial norms and positive		females
	Sex: 56.0% female;	image for school, and extend		
	44.0% male	exposure to Going Places		Outcome: Alcohol Use
	Race/ethnicity: 22.0%	curriculum concepts		Measure: means (prevalence) drinking
	Black or African			stage (score)
	American; 69.8%	Implementer(s): Classroom		
	White; 8.1% other	teacher (received training);		Baseline
	Other NR	school administration for school		Int (n=692):0.36 (0.86)
		environment,		Comp (n=620): 0.35 (0.84)
	Community			Follow-up (in months): 40 months
	characteristics: NR	Intervention duration: 36		Int (n=692): 1.47 (1.40)
		months (6 th -8 th grade)		Comp (n=620): 1.51 (1.45)
				Absolute change: -0.05 score points
		Focus of intervention		Relative change: NA
		activities:		Narrative results: Negligible
		Both parents/caregivers and		treatment group differences were
		youth: Yes		found for drinking behavior Favorable
		Parents only: No		(Yes/No/No effect): Yes??
				Statistical significance: No
		Parent and child (either in the		
		same session or not)? Yes		Analysis Group: Black vs white
		Parent and child in the same		Baseline
		session/activity? Yes (homework		Black (n=273): 0.17 (0.60)
		together)		White (n=939): 0.20 (0.60)
				Follow-up (in months): 40
		Comparison group: non-		Black (n=273): 0.89 (1.36)
		participating school district		White (n=939): 1.02 (1.49)
		schools		Absolute change: -0.10 score points
				Relative change: NA

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: Race, not a significant prediction of slope in added growth factor model (Fig 2) Favorable (Yes/No/No effect): Yes,
				lower rate of increase in Blacks than whites
				Statistical significance: NS
				Analysis Group: Female vs male
				Baseline Female (n=750): 0.29 (0.77) Male (n=570): 0.44 (0.93)
				Follow-up (in months): 40 Female (n=750): 1.56 (NR) Male (n=570): 1.39 (1.40)
				Absolute change: +0.32 score points
				Relative change: NA Narrative results: gender effects not found, not significant predictor of slope in added growth factor (Fig 2) Favorable (Yes/No/No effect): yes, lower rate of growth for males than females Statistical significance: NS
				Outcome: Antisocial behavior Measure: means (prevalence)
				Baseline Int (n=773): 0.93 (1.33)
				Comp (n=692): 0.82 (1.29) Follow-up (in months): 40
				Int (n=733): 1.18 (1.46) Comp (n=692): 1.15 (1.47) Absolute change: -0.08 pct pts
				Aboute change: -0.00 ptt pts

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Relative change: -10.8%
				Narrative results: Negligible
				treatment group differences were
				found for antisocial behavior
				Favorable (Yes/No/No effect): Yes,
				slower rate of increase for intervention
				Statistical significance: No
				Analysis Group: Black vs white
				Baseline
				Black (n=322): 1.03 (1.37)
				White (n=1023): 0.85 (1.29)
				Follow-up (in months): 40
				Black (n=322): 1.19 (1.47)
				White (n=1023): 1.17 (1.43) Absolute change: -0.16 pct pts
				Relative change: -19.5%
				Narrative results: Race, not a
				significant predictor of slope in added
				growth factor model (Fig 2)
				Favorable (Yes/No/No effect): Yes,
				lower rate of increase in Blacks than
				whites
				Statistical significance: NS
				Analysis Group: Female vs male
				Baseline
				Female (n=820): 0.56 (1.46)
				Male (n=645): 1.29 (1.46)
				Follow-up (in months): 40
				Female (n=820): 0.99 (1.38)
				Male (n=645): 1.40 (1.53)
				Absolute change: +0.32 pct pts
				Relative change: +27.3%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: gender effects not found, not significant predictor of slope in added growth factor (Fig 2) Favorable (Yes/No/No effect): yes, lower rate of growth for males than females Statistical significance: NS
				Outcome: Tobacco (Smoking) Intention and Initiation Measure: Growth Mixture Modeling (in Fig 3)
				Class 1, never smoked, did not intend to start Class 2, intent to smoke, but did not start over assessment period Class 3, delayed initiation followed by rapid acceleration Class 4, initiated early, smoked infrequently Class 5, initiated early, accelerated rapidly to frequent smoking
				Baseline Int (n=692): reported in Fig 3 Class 1 (n=308), Class 2 (n=218), Class 3 (n=74), Class 4 (n=78), Class 5 (n=14),
				Comp (n=628): reported in Fig 3 Class 1 (n=262), Class 2 (n=202), Class 3 (n=75),

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Class 4 (n=69), Class 5 (n=20),
				Follow-up (in months): 40 Int (n=692): reported in Fig 3 Comp (n=628): reported in Fig 3 Absolute change: NR Relative change: NR Narrative results : group differences due to slower increase in smoking stage for Classes 3–5; moderate rate of increase Favorable (Yes/No/No effect): Yes Statistical significance: NR
Author (Year): Spirito	Setting: Community	Brief description of	Brief description: Self-	x^2 tests: Follow-up completion by
et al. (2011)	/hospital (trauma center)	intervention and content:	reported alcohol measures at baseline from Adolescent	group
Location: Rhode Island	Urbanicity: Urban	Part I: Individual motivational interview (IMI): 45 min	Drinking Questionnaire	Generalized estimating equations (GEE): if alcohol use changed during
Years for Study:	orbanicity. Orban	counseling session for	(8-point scale)	follow-up and differed at follow-up
Jan 2003 to Jan 2008	Eligibility: 13- to 17- year-old patients	adolescents	-drinking frequency (days/month)	based on treatment condition.
Period for Study: 61 months	treated at urban level I trauma center with positive blood alcohol	Components: motivation for drinking and review of potential negative consequences, personal	-quantity (drinks/occasion), -frequency of high-volume drinking (greater than or equal	Poisson model: to examine differences in count data for quantity per drinking occasion.
Study Design: Individual RCT	concentration (BAC), tested using blood, breath, or saliva or	responsibility, personalized normative assessment feedback, establishing goals regarding	to 5 drinks/occasion), -frequency of intoxication (feeling drunk, or very, very	FCU + IMI vs IMI (control) Outcome: any alcohol drinking in
CG Suitability:	self-reported drinking	drinking, anticipating barriers to	high in previous 3 months)	previous 3-months
Greatest	of alcohol in the 6 hours before ED visit.	accomplishing goals (i.e., peer pressure to drink)	Drunk (intoxication) data not	Measure: proportion (percentage)
Risk of Bias			reported due to high	Baseline
Assessment	Recruitment: see	Part II: Family check-up (FCU):	correlation with high volume	Int (n=62): 100%
a) Randomization – Low	above	Families returned for 1-hour	drinking days	Comp (n=63): 100%
b) Concealment- Low		videorecorded assessment	, ,	Follow-up (in months): 12m

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
c) Blinding- Low	Inclusion: cited	session (FAsTask); week later	Substance(s)* alcohol	Int (n=36): 60%
d) Outcomes– Unclear	above, and signed	parents returned and received	Polysubstance measures	Comp (n=47): 70%
e) Selective- Unclear	informed consent	feedback (1 hour)	(Yes/No)? No	Absolute change: -10 pct pts
				Relative change: -14.3%
	Exclusion: Alcohol-	Components: parent(s) and	Outcome types	Narrative results: NR – provide
	positive patients who	adolescent discuss family beliefs	Intentions? Yes	overall analysis but not by group
	were suicidal (n=17)	on alcohol, marijuana, cigarette,	Initiation? No	Favorable (Yes/No/No effect): Yes
	primary language not	and other drug use; other topics	Use? Yes	Statistical significance: NR
	English or Spanish	(i.e., curfew).	SU disorder? Yes	
	(n=4), or experienced		Educational outcomes (test	Outcome: high-volume drinking
	serious traumatic injury	Parents given follow-up	score; attainment; grade	Measure: proportion (percentage) in
	(n=21)	information on substance use	retention; disciplinary actions;	table 3
		treatment services	etc.)? No	
	Sample size:		Mental health (depressive	Baseline
	Baseline: 125 (I: 62;	Intervention/program name:	symptoms; anxiety; etc.) : No	Int (n=62): 84%
	C: 63)	Individual Motivational Interview	Morbidity? No	Comp (n=63): 84%
		+ Family Check-up (IMIFCU)	Mortality? No	Follow-up (in months): 12m
	Follow-up: 83 (I: 36;		Equity (stratified analysis;	Int (n=36): 48.6%
	C: 47)	Substance(s) focused* alcohol	focused on one historically	Comp (n=47): 58.0%
	Total: 66.4%		disadvantaged group)? No	Absolute change: -9.4 pct pts
	I: 58.1% (36/62)	Format:		Relative change: -16.2%
	C: 74.6% (47/63)	Adolescents: face-to-face one-	Other outcomes?	Narrative results: (Figure 3) OR for
		on-one	Parents: family stress, parent	treatment = 1.61 (95% CI, 0.72-
	Loss to f/u: 33.6%	Parents: face-to-face one-on-	substance use and substance	3.63); Treatment X time interaction =
	I: 41.9% (26/62)	one, printed materials	use beliefs	1.14 (95% CI, 0.60-2.15)
	C: 25.4% (16/63)			Favorable (Yes/No/No effect): Yes
		Intervention intensity: parents		Statistical significance: R
	Study population:	received 5 monthly booster		
	Parents and	brochures on parenting before 6-		Outcome: Alcohol drinking
	Caregivers	month f/u visit		frequency
	Age: NR	Number of sessions or modules:		Measure: days/month (Table 2)
	Sex: NR	3 (1 IMI, 2 FCU)		
	Race/ethnicity: NR	Number of hours per session: IMI		Baseline
	Education: NR	45-60 min; FCU 2hr (two 60 min)		Int (n=62): 3.4
	Employment: NR	Total hours of intervention: 2 hrs		Comp (n=63): 3.4
	Income: NR	45 min to 3 hrs		Follow-up (in months): 12m

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Marital status: NR			Int (n=36): 2.6
	Other: NR	Additional components (things		Comp (n=47): 2.5
		outside the sessions/modules)		Absolute change: +0.1 days/month
	Study Population:			Relative change: +4.0%
	Youth	Parents received follow-up		Narrative results:
	Age: 15.42 (range 13-	information on substance use		Favorable (Yes/No/No effect): No effect
	17)	treatment services, 5 monthly		Statistical significance: NR
	Grade level(s): NR	booster brochures		
	Sex: 54.8% female;			Outcome: Alcohol drinking quantity
	45.2% male	Follow-up interviews (by		Measure: drinks/occasion (Table 2)
	Race/ethnicity: 4.8%	research assistants masked to		
	Asian American or East	treatment group assignment):		Baseline
	Indian; 1.6% Black or	telephone at 3 months, in-person		Int (n=62): 5.4
	African American;	at 6 and 12 months		Comp (n=63): 5.2
	27.4% Hispanic;			Follow-up (in months): 12m
	61.3% White; 4.8%	Implementer(s):		Int (n=36): 3.1
	mixed race	interventionist with master's		Comp (n=47): 3.4
	Other:	degrees in counseling and		Absolute change: -0.5 drinks/
	Reason for ED visit	psychology conducted		occasion
	22.6% Intoxication	intervention		Relative change: -12.2%
	with injury or medical			Narrative results:
	concern	Intervention duration: 3		Favorable (Yes/No/No effect): Yes
	77.4% Intoxication	months (about 2 weeks with		Statistical significance: NR
	only	booster brochures to parents up		
		to 6 months and final follow-up		Outcome: High-volume drinking
	Community	at 12 months)		frequency
	characteristics: NR			Measure: \geq 5 drinks/occasion (Table 2)
		Focus of intervention		
		activities:		Baseline
		Both parents/caregivers and		Int (n=62): 2.5
		youth: Yes		Comp (n=63): 2.7
		Parents only: No		Follow-up (in months): 12m
				Int (n=36): 2.4
		Parent and child (either in the		Comp (n=47): 2.0
		same session or not)? Yes		Absolute change: +0.6 ≥5 drinks/
				occasion

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study	-		Outcomes	Relative change: +29.6% Narrative results: NR Favorable (Yes/No/No effect): No Statistical significance: NREntire sample analyses: FCU + IMI combined + IMI Only (control)Outcome: drinking frequency: # of days Narrative results: rose from 3 to 12
				time interaction. Statistical significance: Yes, decreased significantly from baseline to 12-month ($t82=6.75$) (P < .001).
				Outcome: high-volume drinking days Baseline (n=125): 84% 12m follow-up (n=83): 53.3% Absolute change: NR Relative change: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results : time from 3 to 12 months OR = 1.39 (95% CI, 0.90-2.13). Treatment condition 2.66 OR (95% CI, 0.99- 7.17); average likelihood across follow-up = 30.1% (IMI + FCU) and 44.6% (IMI only). Condition x time interaction = 1.51 OR (95% CI, 0.73- 3.11) Favorable (Yes/No/No effect): Yes Statistical significance: Yes, decreased significantly from baseline to 12-month ($t82$ =4.48) (P < .001) but at 12-month intervention comparisons not statistically significant.
Author (Year): Spirito	Setting: Mix	Brief description of	Brief description: Youth self-	There were no differences between
et al. (2017)	(community, school,	intervention and content:	reported drug use at	conditions in alcohol, marijuana, and
	home)	Intervention provided	3m, 6m, 12m	sum categories of drug use at baseline
Related paper:		individualized, tailored feedback	Adolescent outcomes	or follow-up for the participating
Becker et al., 2019	Urbanicity: NR	on specific parenting skills, including monitoring and	Sibling outcomes	adolescent and sibling.
Location: USA; State	Eligibility: Adolescents	supervision, limit setting, and	Substance(s)*	Attrition analyses examining
not reported	whose	alcohol-related communication		differences between baseline and 12-
	parents were		heavy drinking in the past	month follow-up non-significant for
Years for Study:	concerned about their	Intervention/program name:	month	both teens and siblings
2009-2014	alcohol or marijuana	Family Check-Up (FCU)	Marijuana use, number of days	
	use, and who had a		used in past 3m, average per	Neither the intervention nor
Period for Study: 65	sibling	Substance(s) focused*: Alcohol	day	comparison program was found to
months	_	and marijuana use. (Tailored	Sum score of all drug	significantly reduce alcohol or
	Recruitment:	focus to substances identified as	categories (max 10) used in	marijuana use in the identified teens.
Study Design: RCT	Participants were	a problem)	the past 3m	Chudu daga nat ranget an asifia
Individual	recruited from the	Formert.		Study does not report specific
CG Suitability:	community, including	Format: Self-administered assessment	Polysubstance measures: Yes, sum total of categories of	intervention or comparison pre or post
Greatest	local high schools, family court and		drugs used in past 3m	measures (Table 3)
Greatest		(baseline)	uruys useu in past 3m	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	truancy courts, as well	One-hour video-taped family	(Marijuana, cocaine, ecstasy,	Outcome: Alcohol use
Risk of Bias	as through	assessment task (used to inform	stimulants, sedatives,	Measure: number of days in past 3m
Assessment (ROB2)	advertisements or	counseling feedback)	hallucinogens, opiates,	Baseline
a) Randomization- Low	referrals from	Face-to-face counseling session	inhalants, cough syrup or	Int (n=55): NR
b) Deviations- Low	emergency	for parents (educate parents	"other").	Comp (n=52): NR
c) Missing data- High	departments or mental	about risk for AOD use among		Follow-up (in months): 12m
d) Outcomes- High	health agencies.	adolescents, support appropriate	Outcome types	Int (n=55): NR
e) Selective- High		parenting, and motivate parents	Intentions? No	Comp (n=52): NR
	Inclusion/Exclusion:	to change ineffective parenting).	Initiation? No	Absolute change: NR
Overall bias: High	1) ages of 12-19 years		Use? Yes	Relative change: NR
	2) living at home with	Intervention intensity:	SU disorder? No	Narrative results: No differences.
	a parent or legal	1 meeting, booster brochures	Educational outcomes? No	However, Teen alcohol use was
	guardian who is also	every 3–4 weeks	Mental health? No	associated with sibling alcohol use and
	willing to participate;	Number of sessions: 2 baseline+	Morbidity? No	alcohol use increased with the age of
	3) used alcohol or	counseling; plus 8 mailed	Mortality? No	the sibling.
	marijuana in the past	boosters	Equity? No	Favorable: No effect
	90 days	Number of hours per session: 1-		Statistical significance: No
	4) a sibling within 5	1.5 hours	Other outcomes? Yes	
	years of age of the	Total hours of intervention: 2-3	Sources of Parental Knowledge	Outcome: Alcohol use
	target teen, living at	hours (baseline assessment +		Measure: Alcohol use Heavy drinking
	home with the	video+ counseling f/u)		days/month (5 or more drinks)
	adolescent and			categorized frequency
	participating parent(s),	Additional components: Yes		Baseline
	and between the ages	Baseline assessment		Int (n=55): NR
	of 11 and 21 years old.	Videotape family task		Comp (n=52): NR
		Mailed boosters (n=8) for		Follow-up (in months): 12m
	Sample size:	parents every 3-4 weeks for 6		Int (n=55): NR
	Assessed: 930 families	months		Comp (n=52): NR
	Randomized: 107			Absolute change: NR
	families	Implementer(s): Trained (8-		Relative change: NR
	Baseline	hour training) four master's level		Narrative results: No differences
	Intervention: 55	and one doctoral level Counselors		Favorable: No effect
	families			Statistical significance: No
	Comparison: 52	Intervention duration: 2		
	families	weeks between baseline and		Outcome: Marijuana use

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Follow-up: 92 families	counseling session, but booster		Measure: number of days in the past
	(86%)	mailings extended to 6 months		3m
	Loss to f/u 14%			Baseline
		Focus of intervention		-s): 12m
	In order to ensure that	activities:		Int (n=55): NR
	the two treatment	Both parents/caregivers and		Comp (n=52): NR
	conditions were	youth: Yes		Absolute change: NR
	balanced for alcohol	Parents only: No		Relative change: NR
	use and externalizing			Narrative results: No differences.
	problems, families were	Parent and child in the same		However, Teen marijuana use was
	assigned to their	session/activity? Yes (video)		associated with sibling marijuana use.
	condition using an urn	Counseling session for parents		Marijuana use increased with the age
	randomization			of the sibling
	procedure	Comparison group:		Favorable: No effect
		Psychoeducation		Statistical significance: No
	Study population:	Baseline assessment		
	Parents	60-minute face to face session		Outcome: Marijuana use
	Age: mean 43.3 years	with informational material on		Measure: Daily frequency
	Sex: Female 87.2%	alcohol and other drug use		Baseline
	Male 12.8%	Handouts on the topics reviewed		Int (n=55): NR
	Race/ethnicity:	in the session.		Comp (n=52): NR
	White 53.2%	Mailed boosters (n=8) for		Follow-up (in months): 12m
	Black 8.5%	parents every 3-4 weeks for 6		Int (n=55): NR
	Native American 2.1%	months		Comp (n=52): NR
	Asian 2.1%			Absolute change: NR
	>1 race 4.3%			Relative change: NR
	Hispanic 29.8%			Narrative results: No differences
	Education:			Favorable: No effect
	Prior to HS 2.2%			Statistical significance: No
	HS/GED 47.8%			
	2yr/4yr college 45.7%			Outcome: Sum of drug categories
	>4yr college 4.3%			(10) used in the past 3m
	Employment: NR			Baseline
	Income:			Int (n=55): NR
	0-\$25,999 36.4%			Comp (n=52): NR
	\$26k-\$49,999 27.3%			Follow-up (in months): 12m

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	\$50k or more 36.4% Marital status: Single/never married 21.7% Together/Married 52.2% Divorced/Widowed 26.1% Other Study population: Youth Sex: Female 46.8% Male 53.2% Race/ethnicity: White 44.7% Black 2.1% Native American 2.1% Asian 2.1% >1 race 21.3% Hispanic 27.7% Community characteristics: NR			Int (n=55): NR Comp (n=52): NR Absolute change: NR Relative change: NR Narrative results: No differences Favorable: No effect Statistical significance: No In another study by Becker (2014), using motivation enhancement therapy, adolescents reported significant decreases in both marijuana and alcohol use over the 12-month study.
Spoth et al., 1999 Park et al., 2000 Spoth et al., 2001	school small group sessions for parents	PDFY Intervention arm of three- arm trial of two family-focused universal prevention programs Intervention name: Preparing	Youth self-reported measures of lifetime and past month use of substances on questionnaire administered during 60–80- minute home visit	Relevant substance use outcome results reported from identified included studies with the longest follow-up period
Mason et al., 2003 Guyll et al., 2004 Spoth et al., 2004 Spoth et al., 2006a Spoth et al., 2006b Spoth et al., 2008	Urbanicity : Rural Eligibility: All 6 th grade students and their families in study	for the Drug-Free Years (PDFY) program Family competency training program based on social development model	Families were reassessed approximately 6, 18, 30, 48, and 72 months following the pretest (when students were in the sixth, seventh, eighth,	Spoth 2001 (4-year follow-up) For dichotomous outcome measures differences in proportions of intervention and control groups reporting substance-use behaviors (i.e.,lifetime use, past year use, and

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Spoth et al., 2014b	public schools were	Enhance protective child-parent	tenth, and twelfth grades,	past month use) were evaluated with z
	eligible	interactions and reduce children's	respectively).	tests. Relative reduction rates of new
Location: USA; rural		risk for early substance use		user proportions were calculated (Table
Iowa	33 study schools in 19		At age 21 young adults were	2)
	Iowa counties selected	Substance(s) focused	assessed using computer-	
Years for Study:	based on free/reduced	General (universal) prevention	assisted telephone interviews	Outcome: Initiation of alcohol use
1993-2007	lunch status of 15% or		and questionnaires	Measure: Lifetime prevalence of ever
	higher and community	Format: Small group sessions		drank alcohol (grade 6-grade 10)
Period for Study:	size of 8500 or fewer.	for parents with child included in	Substance(s): Alcohol, tobacco,	Study: Spoth 2001 (Table 2)
Longest term follow-up		1 of the 5 sessions	marijuana, methamphetamine,	
was 120 months (6 th	Recruitment: as	Average group size 10 families	narcotic drug misuse,	Baseline
grade to age 21).	above		barbiturate drug misuse	Int (n=NR): NR
		Videotapes were used to		Comp (n=NR): NR
Study Design: group	Inclusion/Exclusion:	standardize content delivery.	Polysubstance measures? No.	Follow-up: 48 months post baseline
RCT	as above		Subset of studies consolidated	Int (n=122): 60%
		Intervention intensity:	measures across substances,	Comp (n=126): 68%
CG Suitability:	Sample size: Schools	Number of sessions: Five	but specific substance use	Absolute change (post): -8 pct pts
greatest	were the unit of	Number of hours per session: 2	outcomes are reported here	Relative change (post): -11.77%
	randomization	hours		Narrative results: NR
Risk of Bias	PDFY: 11 schools	Total hours of intervention: 10	Outcome types	Favorable (Yes/No/No effect): Yes
Assessment	• Control: 11 schools		Intentions? NO	Statistical significance: No
a) Randomization -	 ISFP: 11 schools 	Additional components: No	Initiation? YES	
Low	(second	but babysitting was provided for	Use? YES	Outcome: Initiation of cigarette
b) Concealment - Low	intervention	small group sessions	SU disorder? NO	use
c) Blinding - High	evaluated)		Educational outcomes? NO	Measure: Lifetime prevalence of ever
d) Outcomes - Low		Implementer(s): Trained	Mental health: NO	smoked cigarettes (grades 6-10)
e) Selective - High	Recruited	program implementers.	Morbidity? YES	Study: Spoth 2001 (Table 2)
	students/families	Implementers for the PDFY were	Young Adult Lifetime Sexually	
	883 families contacted	adult members of the local	Transmitted Diseases	Baseline
	N=424 (48%)	communities hired on the basis	Mortality? NO	Int (n=NR): NR
	completed pre-test and	of their presentational and	Equity?: NO, but rural	Comp (n=NR): NR
	were randomized to	interpersonal skills, as assessed	applicability	Follow-up: 48 months post baseline
	one of 3 study arms	through personal interviews with		Int (n=128): 44%
	Baseline	project leaders.	Other outcomes? Yes.	Comp (n=142): 50%
	PDFY arm: n=221	Training included a 3-day	Self-reported non-drug	Absolute change (post): -6 pct pts
	families	training plus a booster.	delinquent behaviors	Relative change (post): -12.5%

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Control arm: n=208	Implementers worked in two	(e.g., taken something	Narrative results: NR
	families	person teams to conduct the 5-	worth \$25 or more; purposely	Favorable (Yes/No/No effect): Yes
		session small group program	damaged property)	Statistical significance: No
	Loss to f/u: 35% at 10	content.		
	years		Measures of Health Risk Sexual	Outcome: Initiation of marijuana use
		Intervention duration: 5	Behaviors (Spoth 2014b)	Measure: Lifetime prevalence of ever
	Characteristics as	weeks		used marijuana (grades 6-10)
	reported in Spoth 2001		Young Adult Number of Sexual	Study: Spoth 2001 (Table 2)
	(Table 1 PDFY)	Focus of intervention	Partners in Past Year	
		activities:		Baseline
	Study population:	Both parents/caregivers and	Young Adult Condom Use in	Int (n=NR): NR
	Parents and	youth: Yes	Past Year	Comp (n=NR): NR
	Caregivers: Overall	Parents only: No		Follow-up: 48 months post baseline
	Age: mean 37.8		Young Adult Substance Use	Int (n=143): 11%
	Sex: NR	Parent and child Yes but only 1	and Sex	Comp (n=151): 17%
	Race/ethnicity:	session with parent		Absolute change (post): -6 pct pts
	Caucasian 99%	Parent and child in the same	Additional outcome results	Relative change (post): -35.3%
	Education: mean 13.5	session/activity? Yes for 1	(Spoth 2014b Tables 2) post-	Narrative results: significant only at
	years	session	only comparisons at age 21	p<0.1
	Completed HS: 96-			Favorable (Yes/No/No effect): Yes
	97%	Comparison group: Minimal	Morbidity	Statistical significance: No
	Some college 54-59%	contact control schools. Parents	Lifetime sexually	
	Employment:	received printed materials (4	transmitted diseases	Outcome: Alcohol use
	Income: median	mailed leaflets on developmental	Baseline (not measured)	Measure: Proportion reporting use in
	household income	changes	Int (n=NR): NR	the past month
	\$37,500		Comp (n=NR): NR	Study: Spoth 2001
	Marital status: 86%		Follow-up: 120 months	
	two-parent household		Int (n=220): 5.6%	Baseline
	Other: Number of		Comp (n=208): 6.8%	Int (n=NR): NR
	children in household:		Absolute change: -1.2	Comp (n=NR): NR
	3		percentage points (p<0.05)	Follow-up: 48 months
			Relative change: RRR -18%	Int (n=NR): NR
	Study Population:		Narrative results: NR	Comp (n=NR): NR
	Youth Overall		Favorable? Yes	Absolute change: NR
	Age: mean 11.4 years		Significant? Yes	Relative change: -40.6%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Grade level(s): 6 th		Health risk sexual behaviors	Narrative results: These differences
	grade at intervention,		(categorized)	were significant for the PDFY vs control
	10 th grade at 4-year		Past year number of	group comparison of past month
	follow-up		partners >1	alcohol use (relative
	Sex: 51.1% female;		Baseline (not measured)	reduction = 40.6% , z = 2.97).
	48.9% male		Int (n=NR): NR	Favorable (Yes/No/No effect): Yes
	Race/ethnicity:		Comp (n=NR): NR	Statistical significance: Yes
	Caucasian 99%		Follow-up: 120 months	
	Other: Two parent		Int (n=220): 26.6%	Outcome: Cigarettes use
	household (86%)		Comp (n=208): 29.3%	Measure: Proportion reporting use in
			Absolute change: -2.7	the past month
	Community		percentage points (NS)	Study: Spoth 2001
	characteristics:		Relative change: RRR -9%	
	Proportion of families in		Narrative results:	Baseline
	study schools eligible		Favorable? Yes	Int (n=NR): NR
	for free/reduced lunch		Significant? No	Comp (n=NR): NR
	26.9%			Follow-up (in months): 48 months
	Other: Rural		Past year condom use <	Int (n=NR): NR
	counties/schools		always	Comp (n=NR): NR
			Baseline (not measured)	Absolute change: NR
			Int (n=NR): NR	Relative change: NR
			Comp (n=NR): NR	Narrative results: An analysis of the
			Follow-up: 120 months	proportions of adolescents using
			Int (n=220): 70.5%	tobacco during the past month showed
			Comp (n=208): 71.9%	that lower proportions of PDFY group
			Absolute change: -1.4	students (vs. control group students)
			percentage points	used at the IOth-grade follow-up.
			Relative change: RRR -2%	Favorable: Yes
			Narrative results: NR	Statistical significance: No (NR)
			Favorable? Yes (small)	
			Significant? No	Outcome: Marijuana use
				Measure: Proportion reporting use in
			Substance use and sex >	the past year
			never	Study: Spoth 2001
			Baseline (not measured)	Baseline
			Int (n=NR): NR	Int (n=NR): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
			Comp (n=NR): NR	Comp (n=NR): NR
			Follow-up: 120 months	Follow-up (in months): 48 months
			Int (n=220): 54.8%	Int (n=NR): NR
			Comp (n=208): 58.4%	Comp (n=NR): NR
			Absolute change: -3.6	Absolute change: NR
			percentage points (p<0.05)	Relative change: NR
			Relative change: RRR -6%	Narrative results: An analysis of the
			Narrative results: NR	proportions of adolescents using
			Favorable? Yes	marijuana during the past year showed
			Significant? Yes	that lower proportions of PDFY group students
				(vs. control group students) used at
				the 10th-grade follow-up.
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No (NR)
				Outcome: Methamphetamine use
				Measure: Past year use at 12 th grade
				follow-up
				Study: Spoth 2006a
				Baseline
				Int (n=NR): NA (presumed 0)
				Comp (n=NR): NA (presumed 0)
				Follow-up (in months): 72 months
				Int (n=149): 3.57%
				Comp (n=157): 3.21%
				Absolute change: +0.36 percentage
				points NS
				Relative change: +11%
				Narrative results: Among the 140
				PDFY condition participants, 5 (3.57%)
				reported using methamphetamines in
				the past 12 months—a rate similar to
				that in the control group.
				Favorable (Yes/No/No effect): No effect

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Statistical significance: No
				Applicability: Spoth 2006b examined effects for subsets (at 12 grade assessment) defined by family risk including parent marital status, parental education, household income, household financial strain, parent and child internalizing and externalizing behaviors
				Results were most consistent with the interpretation that ISFP intervention provided comparable benefits for two outcome measures, regardless of family risk status
				Outcome: Narcotic drug misuse- lifetime Measure: Have you ever used narcotics (e.g. Vicodin, Oxycontin, or Percocet), not under a doctor's orders?'; Study: Spoth 2008
				Baseline Int (n=NR): NA Comp (n=NR): NA Follow-up (in months): 120 months Int (n=152): 4.6% Comp (n=161): 8.7% Absolute change: -4.1 percentage points NS Relative change (post): -47.1% Narrative results: PDFY group young
				adults' lifetime narcotic misuse [Fisher's exact test (df = 1) = 2.039 , P

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Characteristics	Characteristics		 = 0.11] were not significantly different, although they were less than those of the controls. Favorable (Yes/No/No effect): Yes Statistical significance: No Outcome: Barbiturate drug misuse-lifetime Measure: Have you ever used barbiturates (sedatives), not under a doctor's orders?'. Study: Spoth 2008 Baseline Int (n=NR): NA Comp (n=NR): NA Follow-up (in months): 120 months Int (n=152): 1.3% Comp (n=161): 3.1% Absolute change: -1.8 percentage points NS Relative change: -58.0% Narrative results: PDFY group young adults' barbiturate misuse rates [Fisher's exact test (df = 1) = 1.123, P = 0.25] were not significantly different,
				although they were less than those of the controls. Favorable (Yes/No/No effect): Yes Statistical significance: No Spoth 1999a: 1year and 2 year post baseline
				Consolidated (alcohol and tobacco) initiation

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Consolidated (alcohol, tobacco, illicit drug) progression of use
				Park 2000: 3.5-years post baseline Alcohol initiation Alcohol past month use
				Spoth 2001: 4-year outcomes post baseline Alcohol, tobacco, marijuana initiation Alcohol, tobacco, marijuana use and
				frequency of use Mason 2003: 3.5-year outcomes post baseline Polysubstance use Delinquency behaviors (not school- related)
				Guyll 2004: 4-year outcomes post baseline Alcohol and tobacco composite initiation Alcohol and tobacco composite use
				Spoth 2004: 6-year outcomes post baseline Alcohol, tobacco, marijuana initiation Alcohol, tobacco composite score use
				Spoth 2006a: 6.5-year outcome post baseline Methamphetamine past year use (only at 6.5 years)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Spoth 2006b: 6.5-year outcomes post
				baseline
				Risk moderation in initiation of alcohol
				and illicit substances
				Spoth 2008: 9–10-year outcomes post baseline
				Narcotic drug misuse lifetime
				Barbiturate drug misuse lifetime
Author (Year):	Setting: School	Brief description of	Brief description: self-	Relevant substance use outcome
Studies providing	Schools were utilized	intervention and content:	reported measures of lifetime	results reported from identified
assessments of Iowa	for recruitment and	Intervention and Iowa	and past month use of	included studies with the longest
Strengthening Families	conducting intervention	Strengthening Families	substances on questionnaire	follow-up period
Program (IFSP)	small group sessions	Program (ISFP): One arm of a	administered during 60-80-	
Spoth et al. 1999a		three-arm trial	minute home visit	Outcome: Initiation of illicit
Spoth et al. 1999b	Urbanicity: Rural			substance use
Spoth et al. 2001		Biopsychosocial model content	Families were reassessed	Measure: Yes response to lifetime ever
Guyll et al. 2004	Eligibility: All 6 th	ISFP targets the enhancement of	approximately 6, 18, 30, 48,	use of one or more of 11 illicit
Spoth et al. 2004	grade students and	family protective processes,	and 72 months following the	substances (e.g., marijuana, inhalants,
Spoth et al. 2006a	their families in study	along with family risk reduction	pretest (when students were in	methamphetamine, cocaine, ecstasy,
Spoth et al. 2006b	public schools were	Objectives of the ISFP focus on	the sixth, seventh, eighth,	nonmedical prescription drug use)
Spoth et al. 2008	eligible	improving (a) disciplinary	tenth, and twelfth grades,	Study: Spoth 2012 (Note: Spoth 2009
Spoth et al. 2009		practices, (b) parent-child	respectively).	reports similar analyses for 12 th grade
Spoth et al. 2012	33 study schools in 19	relationship quality, (c) parent-		follow-up)
Spoth et al. 2014b	Iowa counties selected	child bonding, and (d) child	At age 21 young adults were	Growth curve model estimates
Spoth et al. 2019	based on free/reduced	coping and problem-solving	assessed using computer-	Baseline
	lunch status of 15% or	skills.	assisted telephone interviews	Int (n=NR): NR
Location: USA; rural	higher and community		and questionnaires	Comp (n=NR): NR
Iowa	size of 8500 or fewer.	Intervention/program name:		Follow-up: 120 months post baseline
		Iowa		Int (n=170): 27.5%
Years for Study:	Recruitment: as	Strengthening Families	Substance(s): Alcohol, tobacco,	Comp (n=161): 38.3%
1993-2007	above	Program (ISFP):	marijuana, methamphetamine,	Absolute change: -10.8 percentage
	_ <i>,</i>		narcotic drug misuse,	points
Period for Study:	Inclusion/Exclusion:		barbiturate drug misuse	Relative change: -28.2%
Longest term follow-up	as above	General (universal) prevention		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
was 120 months (6 th			Polysubstance measures? Yes,	Narrative results: Results supported
grade to age 21).	Sample size: Schools	Format: Small group sessions	lifetime illicit substance use	an indirect effect of ISFP on lifetime
	were the unit of	with sections for parents, for	consolidated responses for 11	illicit substance use of young adults
Study Design: Group	randomization	youth, and for both. Each of the	items (e.g., marijuana,	through reduction in the rate of
RCT	ISFP: 11 schools	first six sessions includes a	inhalants, methamphetamine,	increase of illicit substance use
RCI	Control: 11 schools	separate, concurrent youth and	cocaine, ecstasy, nonmedical	exposure across adolescence p=0.02
CG Suitability:	PDFY: 11 schools	parent skills-building curriculum	prescription drug use)	Favorable (Yes/No/No effect): Yes
Greatest	(second intervention	(1 hour), followed by a family		Statistical significance: Yes
Greatest	evaluated)	curriculum (1 hour). The parents	Outcome types	
Risk of Bias				Past Year Illicit Substance Use at
	Deerwited	and their youth jointly participate		
Assessment	Recruited students/families	in the family session where they practice skills learned in their	Initiation? YES Use? YES	age 21 (Spoth 2019) Baseline
,	883 families contacted	1.		
b) Concealment - Low		separate sessions. The seventh	SU disorder? NO	Int (n=NR): NR
c) Blinding - High	N=424 (48%)	session includes only the 1-hour	Educational outcomes? NO	Comp (n=NR): NR
d) Outcomes - Low	completed pre-test and	family interaction session.	Mental health: NO	Follow-up (in months): 120 months
e) Selective - High	were randomized to		Morbidity? YES	Int (n=170): NR
	one of 3 study arms	Videotapes: Essential program	Young Adult Lifetime Sexually	Comp (n=161): NR
	Baseline	content for the parent and child	Transmitted Diseases	Absolute change: NR
	ISFP arm: n=238	skills training sessions was	Mortality? NO	Relative change: NR
	families	presented on videotapes that	Equity?: NO, but rural	Narrative results: Direct intervention
	Control arm: n=208	included family interactions that	applicability	effects were not significant. Indirect
	families	illustrated key program concepts.		effects of the intervention were found
	Loss to f/u: 29% at		Other outcomes? Yes.	for adult past year illicit substance use
	120 months	The group sizes ranged from 3 to		(B=-0.170, t=-4.335, p < .0001)
		15 families, with an average	delinquent behaviors	follow-up. Favorable: Yes
	Characteristics as	group size of 8 families and 20	(e.g., taken something	Statistical significance: Yes
	reported in Spoth 2001	persons.	worth \$25 or more; purposely	
	(Table 1 ISFP)		damaged property)	Outcome: Initiation of prescription
		Intervention intensity:		drug narcotic misuse
	Study population:	Number of sessions: Seven	Measures of Health Risk Sexual	Measure: Yes response to 'Have you
	Parents and	Number of hours per session: 2	Behaviors (Spoth 2014b)	ever used narcotics (e.g.Vicodin,
	Caregivers: Overall	hours		Oxycontin, or Percocet), not under a
	Age: mean 38.2	Total hours of intervention: 14	Young Adult Number of Sexual	doctor's orders?
	Sex: NR		Partners in Past Year	Study: Spoth 2008
	Race/ethnicity:			Baseline
	Caucasian 99%			Int (n=NR): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Education: mean 13.3	Additional components: No, but	Young Adult Condom Use in	Comp (n=NR): NR
	years	babysitting services were	Past Year	Follow-up: 120 months post baseline
	Completed HS: 96-	provided during meeting times.		Int (n=170): 0.6%
	97%		Young Adult Substance Use	Comp (n=161): 8.7%
	Some college 54-59%	Implementer(s) trained	and Sex	Absolute change: -8.1 percentage
	Employment:	program implementers.		points
	Income: median	Implementers for the ISFP were	Additional outcome results	Relative change (post): -93.1%
	household income	adult members of the local	(Spoth 2014b Tables 2) post-	Narrative results: The ISFP group
	\$42,300	communities hired on the basis	only comparisons at age 21	young adults reported significantly less
	Marital status: 88.7%	of their presentational and		life-time narcotic misuse [Fisher's
	two-parent household	interpersonal skills, as assessed	Morbidity	exact test (df = 1) = 12.442, P <
	Other: Number of	through personal interviews with	Lifetime sexually	0.001]
	children in household:	project leaders.	transmitted diseases	Favorable (Yes/No/No effect): Yes
	3.2	Training included a 3-day	Baseline (not measured)	Statistical significance: Yes
		training plus a booster.	Int (n=NR): NR	
	Study Population:	Implementers worked in two	Comp (n=NR): NR	Outcome: Initiation of prescription
	Youth Overall	person teams to conduct the 7	Follow-up: 120 months	drug barbiturates misuse
	Age: mean 11.3 years	session small group program	Int (n=238): 2.9%	Measure: Yes response to 'Have you
	Grade level(s): 6 th	content.	Comp (n=208): 5.4%	ever used barbiturates (sedatives), not
	grade at intervention,		Absolute change: -2.5	under a doctor's orders?'.
	10 th grade at 4 year	Intervention duration: 7	percentage points (p<0.01)	Study: Spoth 2008
	follow-up	weeks	Relative change: RRR -46%	Baseline
	Sex: 51.9% female;		Narrative results: NR	Int (n=NR): NR
	48.1% male	Focus of intervention	(Yes/No/No effect) Yes	Comp (n=NR): NR
	Race/ethnicity:	activities:	Significant Yes	Follow-up: 120 months post baseline
	Caucasian 99%	Both parents/caregivers and		Int (n=170): 0.0%
	Other: Two parent	youth: Yes	Health risk sexual behaviors	Comp (n=161): 3.1%
	household (88.7%)	Parents only: No	(categorized)	Absolute change: -3.1 percentage
			Past year number of	points
	Community	Parent and child in the same	partners >1	Relative change (post): -99.6%
	characteristics:	session/activity? Yes	Baseline (not measured)	Narrative results: The ISFP group
	Proportion of families in		Int (n=NR): NR	young adults reported significantly less
	study schools eligible	Comparison group: Minimal	Comp (n=NR): NR	life-time barbiturate misuse than
	for free/reduced lunch	contact control schools. Parents	Follow-up: 120 months	controls [Fisher's exact test (df = 1) =
	26.3%	received printed materials (4	Int (n=238): 25.8%	5.313, P = 0.03]
	Rural counties/schools		Comp (n=208): 33.1%	Favorable (Yes/No/No effect): Yes

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		mailed leaflets on developmental	Absolute change: -7.3	Statistical significance: Yes
	Adult follow-up (Spoth	changes	percentage points (p<0.01)	_
	2019)	_	Relative change: RRR -22%	Outcome: Past month prescription
	Intervention 170		Narrative results:	drug narcotics misuse
	(71.4% of 238)		Favorable (Yes/No/No effect)	Measure: Yes response to 'In the past
	Comparison 161		Yes	year, did you take narcotics other than
	(77.4% of 208)		Significant Yes	heroin (e.g. morphine, codeine, Demerol) to get high?
			Past year condom use <	Study: Spoth 2008 (12th grade
			always	assessment)
			Baseline (not measured)	
			Int (n=NR): NR	Baseline
			Comp (n=NR): NR	Int (n=NR): NR
			Follow-up: 120 months	Comp (n=NR): NR
			Int (n=238): 69.2%	Follow-up: 72 months post baseline
			Comp (n=208): 71.4%	Int (n=151): 0.0%
			Absolute change: -2.2	Comp (n=157): 3.8%
			percentage points	Absolute change: -3.8 percentage
			Relative change: RRR -3%	points
			Narrative results: NR	Relative change: -99.7%
			Favorable (Yes/No/No effect)	Narrative results: 12th-grade ISFP
			Yes (small)	intervention condition participants
			Significant No	reported significantly less narcotic
				misuse [Fisher's exact
			Substance use and sex >	test $(df = 1) = 5.788, P = 0.02]$ in the
			never	past year than control condition
			Baseline (not measured)	participants
			Int (n=NR): NR	Favorable (Yes/No/No effect): Yes
			Comp (n=NR): NR	Statistical significance: Yes
			Follow-up: 120 months	
			Int (n=238): 53.9%	Outcome: Past year use of
			Comp (n=208): 59.5%	methamphetamines
			Absolute change: -5.6	Measure: Any non-zero response to
			percentage points (p<0.01)	'Write down the number of times
			Relative change: RRR -9%	during the past 12 months you took
			Narrative results:	methamphetamines?

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
			Favorable (Yes/No/No effect) Yes Significant Yes	Study: Spoth 2006a (12th grade assessment)BaselineInt (n=NR): NRComp (n=NR): NRFollow-up: 72 months post baselineInt (n=151): 0.0%Comp (n=157): 3.21%Absolute change: -3.21 percentage pointsRelative change: -100%Narrative results: statistically significant difference (P=.04).Favorable (Yes/No/No effect): Yes Statistical significance: YesApplicability: Spoth 2006b examined effects for subsets (at 12 grade assessment) defined by family risk including parent marital status, parental education, household income, household financial strain, parent and child internalizing and externalizing behaviorsResults were most consistent with the interpretation that ISFP intervention
				family risk status Spoth 2001 (4-year, 10 th grade follow- up) For dichotomous outcome measures differences in proportions of intervention and control groups

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				reporting substance-use behaviors (i.e., lifetime use, past year use, and past month use) were evaluated with z tests. Relative reduction rates of new user proportions were calculated (Table 2)
				Outcome: Initiation of alcohol use Measure: Lifetime prevalence of ever drank alcohol (grade 6-grade 10) Study: Spoth 2001 (Table 2)
				Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up: 48 months post baseline Int (n=131): 50% Comp (n=126): 68% Absolute change: -18 percentage points Relative change: -26.4% p<0.01 Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: Yes
				Outcome: Initiation of cigarette use Measure: Lifetime prevalence of ever smoked cigarettes (grades 6-10) Study: Spoth 2001 (Table 2)
				Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up: 48 months post baseline Int (n=141): 33%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Comp (n=142): 50% Absolute change: -17 percentage points Relative change: -34.8% p<0.01 Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: Yes
				Outcome: Initiation of marijuana use Measure: Lifetime prevalence of ever used marijuana (grades 6-10) Study: Spoth 2001 (Table 2)
				Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up: 48 months post baseline Int (n=143): 7% Comp (n=151): 17%
				Absolute change: -10 percentage points Relative change: -58.2% p<0.05 Narrative results: NR Favorable (Yes/No/No effect): Yes Statistical significance: Yes
				Outcome: Alcohol use Measure: Proportion reporting use in the past month Study: Spoth 2001
				Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up: 48 months

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study	-		Outcomes	Int (n=NR): NR Comp (n=NR): NR Absolute change: NR Relative change: -30% Narrative results: These differences were significant for the IFSP vs control group comparison of past month alcohol ISFP-control group (relative reduction = 30%, <i>z</i> = 2.19) and past month cigarette use (relative reduction =46%, <i>z</i> = 2.50). Favorable (Yes/No/No effect): Yes Statistical significance: Yes Outcome: Cigarettes use Measure: Proportion reporting use in the past month Study: Spoth 2001 Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up (in months): 48 months Int (n=NR): NR Comp (n=NR): NR
				Absolute change: NR Relative change: -46% Narrative results: These differences were significant for the IFSP vs control group comparisons of past month cigarette use (relative reduction = 46%, $z = 2.50$). Favorable (Yes/No/No effect): Yes Statistical significance: Yes

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Outcome: Marijuana use Measure: Proportion reporting use in the past year Study: Spoth 2001 Baseline
				Int (n=NR): NR Comp (n=NR): NR Follow-up (in months): 48 months Int (n=NR): NR Comp (n=NR): NR Absolute change: NR Relative change: NR Narrative results : An analysis of the proportions of adolescents using marijuana during the past year showed
				that lower proportions ISFP group students (vs. control group students) marijuana at the 10th-grade assessment follow-up. Favorable (Yes/No/No effect): Yes Statistical significance: No (NR)
Author (Year):	Setting: Mix (school	Brief description of	Brief description Self-	Outcome analyses were "intent-to-
Spoth et al. (2002)	and community)	intervention and content: Intervention was a combination	reported substance use outcomes using in-classroom	treat," using data from individuals in the entire sample, whether or not
Related papers: Spoth et al. 2005 Spoth et al. 2006a	Urbanicity: Rural Eligibility: Middle	of a family-focused intervention and school-based prevention curricula (three-arm trial with the	questionnaires Self-reports were collected at	particular individuals participated in the intervention(s).
Spoth et al. 2006b Spoth et al. 2008a Spoth et al. 2008b Spoth et al. 2014a Spoth et al. 2016	schools in 22 counties of Iowa eligible based on: 20% or more of households in the school district within	school only arm excluded from this summary) Intervention name : Capable Families and Youth Study	baseline, 6 months later following the interventions, then yearly through the 12th grade	12 th Grade Results as reported in Spoth 2008b (Table 2) Outcome: Substance Use Initiation Index Measure: Scale score for ever use of
Trudeau et al. 2016	185% of the federal poverty level; School	(Strengthening Families	Adult (ages 22, 25, and 27) follow-up was conducted using	alcohol, cigarettes, or marijuana

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Location: USA, Iowa	district enrollment	Program: For Parents and Youth	computer-assisted telephone	Baseline
	under 1,200; all	10-14 + Life Skills Training)	interviews supplemented by	Int (n=554): NR
Years for Study:	middle school		mailed questionnaires	Comp (n=496): NR
1997-2011	grades (6–8) taught at	Substance(s) focused*		Follow-up: 66 months
	one location.	General substance use	Substance(s)*	Int (n=NR): 1.871 adjusted means
Period for Study: 66		prevention	Alcohol and related drunkeness	score
months for Grade 12	7 th grade students (and		Cigarettes	Comp (n=NR): 2.040 adjusted means
follow-up (up to 174	families) in study	Format: Family intervention:	Marijuana	score
months for age 27	schools	face-to-face small groups	Methamphetamines	Absolute change: -0.169 scale points
follow-up)		School intervention: face-to-face	Prescription drug misuse	Relative change: NR
	Recruitment: Random	classroom curricula		Narrative results: Tests of
Study Design: Group	selection of eligible		Polysubstance measures? Yes	differences (t-values) = $2.28 \text{ p} < 0.01$
RCT	middle schools	Intervention intensity:	Overall:	one-tailed
		Parents (family intervention)	Substance use initiation index	Favorable? Yes
CG Suitability:	Inclusion/Exclusion:	Number of sessions: 11 (7	(ever had a drink of alcohol;	Statistical significance: Yes p<0.01
Greatest	As above	sessions plus 4 boosters)	ever smoked a cigarette; and	
		Number of hours per session: 2	ever smoked marijuana	Outcome: Initiation of Alcohol
Risk of Bias	Recruited schools: 36	hours		Measure: Score for Lifetime ever use of
Assessment	with schools	Total hours of intervention: 22	Subset analyses of higher-risk	alcohol
a) Randomization - Low	randomized to		youth:	
b) Concealment - Low	condition:	Youth (Family + school)		Baseline
c) Blinding - High	Intervention: 12	Number of sessions: 11 family	Monthly poly-substance use	Int (n=554): NR
d) Outcomes - Low	schools	sessions + 20 classroom sessions	Monthly or more frequent	Comp (n=496): NR
e) Selective - High	Control: 12 schools	Number of hours per session: 2	alcohol use, cigarette use, and	Follow-up: 66 months
	2nd intervention: 12	hours for family sessions; 45	marijuana use	Int (n=NR): 0.939 score
	schools (not reported	minutes for classroom sessions		Comp (n=NR): 0.963 score
	here)	Total hours of intervention: 22	Advanced poly-substance use	Absolute change: -0.024 score points
		hours +15 hours =37 hours	(APU) index.	Relative change: -2.5%
	Sample size: Students		Sum of five items,	Narrative results: Tests of
	(Spoth 2008 table 1)	Additional components: A subset	daily or more frequent use of	differences (t-values)=0.87 NR (NS)
	Baseline 7 th grade:	of families received as booster a	cigarettes,	Favorable: Yes
	1050	videotape and handout and	alcohol use a few times a	Statistical significance: No
	Intervention: 554	family-school resource fair and	month or more	
	Control: 496	resource directory; and a goal-	drunkenness, monthly or more	Outcome: Initiation of drunkenness
	Follow-up 12 th grade:	setting seminar presented to	frequent	Measure: Score for Lifetime ever
	797	students		drunkenness

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Intervention: 450		lifetime marijuana use, and	
	Control:347	Implementer(s)	lifetime use of glue,	Baseline
		Trained facilitators (3 day	paint, gas, or other inhalants.	Int (n=554): NR
	Loss to f/u: 24.1%	training) for family group		Comp (n=496): NR
	(Grade 12)	interventions	Outcome types (Type YES or	Follow-up: 66 months
	Adult sample: NR	Trained classroom teachers	NO next to each outcome)	Int (n=NR): 0.645 score points
		delivered the school intervention	Intentions? NO	Comp (n=NR): 0.679 score points
	Study population:		Initiation? YES	Absolute change: -0.034 score points
	Parents and	Intervention duration: With	Use? YES	Relative change: -5.2%
	Caregivers	· · ·	SU disorder? NO	Narrative results: Tests of
	Age: NR	over 2 school years (7 th and 8 th	Educational outcomes? NO	differences (t -values) = 0.76 NR (NS)
		grade)	Mental health? YES (subset)	Favorable: Yes
	Race/ethnicity: NR		Morbidity? NO	Statistical significance: No
	Education: NR	Focus of intervention	Mortality? NO	
	Employment: NR	activities:	Equity? NO but rural	Outcome: Initiation of cigarette
	Income: NR	Both parents/caregivers and	applicability	use
	Marital status: NR	youth: Yes		Measure: Lifetime ever cigarette use
		Parents only: No	Other outcomes? No	
	for free-reduced lunch			Baseline
	program 24.3%	Parent and child in the same	Evidence gaps? No	Int (n=554): NR
		session/activity? Yes (group		Comp (n=496): NR
	Study Population:	session in family intervention)		Follow-up: 66 months
	Youth Intervention			Int (n=NR): 0.583 score points
	arm	Comparison group: Printed,		Comp (n=NR): 0.669 score points
	Age: NR	mailed materials (4)		Absolute change: -0.086 score points
	Grade level(s): 7 th	Families participating in the		Relative change: -12.3%
	grade	control group were mailed four		Narrative results: Tests of
	Sex: Female 46.5%;	leaflets describing aspects of		differences (t-values)= $1.76 \text{ p} < 0.05$
	Male 53.5%	adolescent development (e.g.,		Favorable: Yes
	Race/ethnicity:	physical and emotional changes,		Statistical significance: Yes
	Caucasian: 96.5%	as well as parent-child		
	Other: Living with both	relationships)		Outcome: Initiation of marijuana
	biological parents: 71.6			USE
	Other: Family eligible for free-reduced lunch			Measure: Lifetime ever marijuana use
				Racalina
	program 24.3%			Baseline

Community Int (n=554): NR Characteristics: 20% Comp (n=496): NR Follow-up: 66 months Follow-up: 66 months	
or more of households in the school district within 185% of the federal poverty level Other: Rural Other: Rur	oints ore points ; p<0.05 scription e of 08a) 2.8 sher's P = 0.10

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 66 months
				Int (n=189): 2.12%
				Comp (n=196): 4.59%
				Absolute change (post) : -2.47 percentage points
				Relative change (post): -53.8%
				Narrative results: NR
				Favorable: Yes
				Statistical significance: No
				Outcome: Methamphetamine use
				Measure: Past year use of
				methamphetamines
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 66 months
				Int (n=190): 2.63%
				Comp (n=197): 7.61%
				Absolute change (post): -4.98
				percentage points
				Relative change (post): -65.4%
				Narrative results: p=0.02
				Favorable: Yes
				Statistical significance: Yes
				Subset Analyses: Higher-risk youth
				Outcome: Monthly poly-substance
				use among higher risk subset of
				students
				Measure: Past month or more frequent
				use of

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				alcohol use, cigarette use, and
				marijuana use
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 66 months
				Int (n=NR): 1.348 score points
				Comp (n=NR): 2.127 score points
				Absolute change: -0.779 score points
				Relative change: NR Narrative results: Tests of
				differences (t - values)= $3.30 \text{ p} < 0.01$
				Favorable: Yes
				Statistical significance: Yes
				Outcome: Advanced poly-
				substance use (APU) index among
				higher risk subset of students
				Measure: Score based on combined
				drug-specific use and frequency
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 66 months
				Int (n=NR): 2.380 score points
				Comp (n=NR): 3.718 score points
				Absolute change: -1.34 score points
				Relative change: NR
				Narrative results: Tests of
				differences (t - values)= 3.96 p<0.01
				Favorable: Yes
				Statistical significance: Yes
				Subset analyses:

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Subset of study participants who participated in in-home assessments (n=670 in all 3 arms; 578 at follow-up) were included in analyses of depression symptoms as adults (age 22)
				Int (n=NR): NR Comp (n=NR): NR Follow-up: 108 months Int (n=NR): NR Comp (n=NR): NR Absolute change: NR Relative change: NR Relative change: NR Narrative results : significant intervention direct effect on age 22 depression symptoms; β =-0.08, 95 % CI [-0.16, -0.00], p=0.042. Indirect intervention effect on age 22 depression symptoms was β = -0.07, p=0.014 [for LST+SFP 10-14 vs. control]. Effect size was <i>d</i> =0.17 (small) Favorable: Yes
				Statistical significance: Yes Adult Follow-up: Self-reported substance use measures collected at age 22 (Spoth 2014a), 25 (Spoth 2016), and 27 (Spoth 2016). Results at age 27 reported here Drunkenness, Alcohol-related problems, Cigarette use, Illicit drug use (lifetime and frequency), Marijuana use (index) Prescription drug misuse (lifetime)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Applying war restricted to these who
				Analyses were restricted to those who had data on intervention condition,
				baseline risk level, and cluster
				[school]); for Intervention (SFP 10-
				14+LST) versus Control, $N = 983$
				Relative reduction rates (RRR) were
				computed from the estimated
				percentages of those above the cutoff
				in the intervention and control
				condition, for both the overall sample
				and the higher-risk subsample
				Relative rate reductions from Table 4
				(Spoth 2016) at age 27
				Outcome: Drunkenness
				Measure: at greater than once per
				month
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 174 months
				Int (n=NR): NR
				Comp (n=NR): NR
				Absolute change: NR
				Relative change: -13.8% Narrative results: NR for relative rate
				reductions
				Favorable: Yes
				Statistical significance: NR
				Outcome: Alcohol-related problems
				Measure: at more than one out of 10

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 174 months
				Int (n=NR): NR
				Comp $(n=NR)$: NR
				Absolute change: NR
				Relative change: -6.1%
				Narrative results: NR for relative rate
				reductions
				Favorable: Yes
				Statistical significance: NR
				Outcome: Cigarette use
				Measure: at greater than no use in the
				past year
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 174 months
				Int (n=NR): NR
				Comp (n=NR): NR
				Absolute change: NR
				Relative change: -14.9%
				Narrative results: NR for relative rate
				reductions
				Favorable: Yes
				Statistical significance: NR
				Outcome: Illicit drug use
				Measure: at greater than no use in the
				past year
				Baseline
				Int (n=554): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Comp (n=496): NR
				Follow-up: 174 months
				Int (n=NR): NR
				Comp (n=NR): NR
				Absolute change: NR
				Relative change: - 12.7%
				Narrative results: NR for relative rate
				reductions
				Favorable: Yes
				Statistical significance: NR
				Outcome: Marijuana use index
				Measure: at greater than no use
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 174 months
				Int (n=NR): NR
				Comp (n=NR): NR
				Absolute change: NR
				Relative change: -12.0%
				Narrative results: NR for relative rate
				reductions
				Favorable: Yes
				Statistical significance: NR
				Outcome: illicit drug use
				Measure: Lifetime
				Baseline
				Int (n=554): NR
				Comp (n=496): NR
				Follow-up: 174 months
				Int $(n=NR)$: NR
				Comp ($n=NR$): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Absolute change: NR Relative change: -12.5% Narrative results: NR for relative rate reductions Favorable: Yes Statistical significance: NR
				Outcome: Prescription drug use Measure: Lifetime
				Baseline Int (n=554): NR Comp (n=496): NR Follow-up: 174 months Int (n=NR): NR Comp (n=NR): NR
				Absolute change: NR Relative change: -9.8% Narrative results: NR for relative rate reductions
				Favorable: Yes Statistical significance: NR
Author (Year): Spoth et al. (2007)	Setting: Mix (school and community)	Brief description of intervention and content: Community-University	Brief description: Student self-reported substance use behaviors in classroom	Longitudinal multi-level models (school district and individual) from posttest to 12th grade were applied to analyze
Related papers: Redmond et al., 2009 Spoth et al., 2011	Urbanicity: Rural Eligibility: Selected	partnerships combined with: Family-focused intervention to recruited families	administered paper and pencil questionnaires	point-in-time 12 th grade substance use outcomes and growth trajectories of those outcomes
Spoth et al., 2013 Location: USA; Iowa	public school districts in rural communities in PA and Iowa	School-based youth intervention or all students in study school grade	Assessments conducted in 8 th grade, 9 th grade, 11 th grade, and 12 th grade (6.5 years post	Intention to treat analyses
and Pennsylvania Years for Study:	School districts were required to have:	Family-focused intervention (all communities selected	baseline) Substance(s) in 12 th grade	Relative reduction rates (RRR) were calculated to illustrate the practical significance of findings for dichotomous
2002-2010		Strengthening Families: For	measures*	outcomes; they indicate the

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Intervention: 2003-	enrollment of between	Parents and Youth 10-14		proportional behavioral reduction in the
2005 (two 2-year	1300 and 5200	program). 2 hour sessions	"Current" use of	intervention group relative to controls
cohorts)	students	included parent-only; youth-only,	Drunkeness (past month)	
	At least 15% students	and parent + youth group time	Cigarettes (past month)	Table 1 (Spoth 2013) Additional
Period for Study: 78	eligible for free or		Driving after drinking (past	outcomes form other papers
months (6.5 years)	reduced lunch program	School-based prevention	year)	Outcome: Lifetime illicit substance
	participation	curricula (one of 3 programs)	Marijuana (past year)	use (polysubstance initiation)
Study Design: Group		Project Alert	Inhalant use (past year)	Measure: Self-reported ever use of
RCT	Families with 6 th grade	Life Skills Training	Methamphetamine use (past	methamphetamine, ecstasy,
	students recruited to	AllStars	year)	marijuana, prescription drug misuse,
CG Suitability:	family-based			vicodin, percocet, or oxycontin
Greatest	intervention	Intervention/program name:	Polysubstance measures? Yes	
		PROSPER (PROmoting School-	Substance Initiation Index-	Baseline: Post-test
Risk of Bias	All 6 th grade students	community-university	Illicit: combined ever used	Int (n=5475 Spoth 2011): NR
Assessment	in study schools	Partnerships to Enhance	measure of:	Comp (n=5262 Spoth 2011): NR
a) Randomization –		Resilience)	-Methamphetamine (meth)	Follow-up: 78 months
Unclear	Recruitment: School		-Ecstasy (MDMA)?	Int (n=NR): 1.43 units NR
b) Concealment -	districts were recruited	Substance(s) focused*	-Marijuana or hashish?	Comp (n=NR): 1.68 units NR
Unclear	for study	General prevention	-Drugs or medications that	Absolute change: -0.25 units NR
c) Blinding - High			were prescribed for someone	Relative change: Relative reduction
d) Outcomes - Low	Community teams	Format:	else?	rate = 15.0% (-15.0%)
e) Selective - High	recruited families of 6 th	Face-to-face	-Vicodin, Percocet, or	Narrative results : F(1,72) = 25.53
	grade students for	Family-intervention small group	Oxycontin?	p=0.001
	family intervention	sessions (year 1)		Favorable: Yes
	Schools implemented	Face-to-face	Outcome types	Statistical significance: Yes
	youth classroom	School-based intervention:	Intentions? YES	
	prevention curricula	classroom curricula (year 2)	Initiation? YES	Outcome: Alcohol use outcome:
			Use? YES including alcohol	drunkeness
	Inclusion/Exclusion:	Intervention intensity:	drunkeness and driving after	Measure: Self-reported past month
	As above	Parents (6 th grade youth)	drinking	drunkenness
	Excluded students who	Number of sessions: 7	SU disorder? NO	
	crossed over from	Number of hours per session: 2	Educational outcomes? NO	Baseline: Post-test
	intervention and	Total hours of intervention: 14	Mental health? NO	Int (n=5475 Spoth 2011): NR
	comparison	(plus optional booster)	Morbidity? NO	Comp (n=5262 Spoth 2011): NR
	communities		Mortality? NO	Follow-up: 78 months
		Youth (7 th grade students)		Int (n=NR): 0.41 units NR

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sample size: 28 of 68	Number of sessions: 7	Equity? NO, but applicability to	Comp (n=NR): 0.44 units NR
	eligible school districts	Number of lessons: 11-15	rural settings	Absolute change: -0.03 units NR
	in Pennsylvania and	Number of hours per session: 14		Relative change: Relative reduction
	Iowa. Pairs of	+ classroom time (NR)	Other outcomes? YES	rate = 5.9% (-5.9%)
	communities were	Total hours of intervention: 14	12 th grade frequency of use	Narrative results: F(1,72)= 1.40
	matched (14 blocks) on	+classroom lesson time	measures for drunkenness,	p=0.12
	school district size and		marijuana, and drinking and	Favorable?: Yes
	geographic location,	Additional components:	driving	Statistical significance: No
	and then randomly	University-Community	Parent practices	
	assigned	partnership with three elements	Youth attitudes and norms	Outcome: Alcohol use outcome:
		-Community teams (10-15		driving after drinking
	Intervention: 14	members including extension		Measure: Self-reported past year
	districts	system staff, school district		driving after drinking
	Comparison: 14	representative, local community		
	districts	service providers and other		Baseline: Post-test
		stakeholders, including parents		Int (n=5475 Spoth 2011): NR
	Baseline: 11,960	and Youth)		Comp (n=5262 Spoth 2011): NR
	students (90% of those	Prevention coordinator		Follow-up: 78 months
	eligible) completed	University researchers		Int (n=NR): 0.25 units NR
	pretest surveys in the			Comp (n=NR): 0.26 units NR
	fall of 6 th grade	Partners worked together to		Absolute change: -0.01 units NR
	Intervention: 6059	select, implement, and sustain		Relative change: Relative reduction
	Comparison: 5901	community teams and		rate = 4.9% (-4.9%)
		interventions in the community		Narrative results: F(1,72)= 0.24
	Follow-up: average,			p=0.117
	across the eight data	Implementer(s)		Favorable?: No effect
	points up through 12 th	-University-community		Statistical significance: No
	grade, 86% of all	partnership and teams		
	eligible students			Outcome: Cigarette
	completed the surveys	Facilitators selected by local		Measure: Self-reported past month use
	with slightly higher	teams included parents,		of cigarettes
	rates of participation at	teachers, counselors,		
	earlier data collection	and law enforcement personnel,		Baseline
	points	among others and received 2 day		Int (n=5475 Spoth 2011): NR
		training on family-focused		Comp (n=5262 Spoth 2011): NR
		intervention		Follow-up: 72 months

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	9 th grade assessment			Int (n=NR): 0.33 units NR
	was completed by	Trained school teachers		Comp (n=NR): 0.37 units NR
	9,438 (79%) of those			Absolute change: -0.04 units NR
	pretested.	Intervention duration: Two		Relative change: Relative reduction
		school years (6 th grade and 7 th		rate = 11.0% (-11.0%)
	Loss to f/u: 14-21%	grade) with optional family		Narrative results: F(1,72)=3.32;
		intervention booster sessions in		p=0.036
		year 2.		Favorable? Yes
	Study population:			Statistical significance: Yes
	Parents and	Focus of intervention		
	Caregivers	activities:		Outcome: Marijuana use
	Age: NR	Both parents/caregivers and		Measure: Self-reported past year use
	Sex: NR	youth: Yes		of marijuana
	Race/ethnicity: NR	Parents only: No		
	Education: NR			Baseline
	Employment: NR	Parent and child in the same		Int (n=5475 Spoth 2011): NR
	Income: NR	session/activity? Yes for family-		Comp (n=5262 Spoth 2011): NR
	Marital status: NR	based intervention		Follow-up: 72 months
	Other: NR			Int (n=NR): 0.35 units NR
		Comparison group: No		Comp (n=NR): 0.39 units NR
	Study Population:	additional interventions. 6 of 14		Absolute change: -0.04 units NR
	Youth	comparison districts offered one		Relative change: Relative reduction
	Age: NR	or more evidence-based		rate = 8.0% (-8.0%)
	Grade level(s): 6 th -7 th	prevention interventions, but		Narrative results: F(1,72)=3.30;
	for 2 years of	implementation or exposure data		p=0.036
	intervention	NA		Favorable? Yes
	Sex: Girls 51%; Boys			Statistical significance: Yes
	49%			
	Race/ethnicity:			Outcome: Inhalants use
	White: 85%			Measure: Self-reported past year use
	Hispanic/Latino: 5%			of inhalants
	African American: 3%			
	Other NR			Baseline
	Other: Free or reduced			Int (n=5475 Spoth 2011): NR
	lunch program			Comp (n=5262 Spoth 2011): NR
	participation: 31%			Follow-up: 72 months

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int (n=NR): 0.04 units NR
	Community			Comp (n=NR): 0.06 units NR
	characteristics:			Absolute change: -0.02 units NR
	rural and small			Relative change: Relative reduction
	town/city communities			rate=28.3% (-28.3%)
				Narrative results: F(1,72)=3.18;
				p=0.039
				Favorable? Yes
				Statistical significance: Yes
				Outcome: Methamphetamine use
				Measure: Self-reported past year use
				of methamphetamines
				Baseline
				Int (n=5475 Spoth 2011): NR
				Comp (n=5262 Spoth 2011): NR
				Follow-up: 72 months
				Int (n=NR): 0.03 units NR
				Comp (n=NR): 0.04 units NR
				Absolute change: -0.01 units NR
				Relative change: Relative rate
				change =31.4% (-31.4%)
				Narrative results: $F(1,72) = 4.55;$
				p=0.018
				Favorable? Yes
				Statistical significance: Yes
				Outcome: Substance Use
				Intentions
				Measure: Self-reported substance use
				plans (Redmond 2009)
				Baseline
				Int (n=NR): NR
				Comp $(n=NR)$: NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Follow-up: 42 months (9 th grade)
				Int (n=NR): 1.50 units
				Comp (n=NR): 1.54 units
				Absolute change: NR
				Relative change: NR Narrative results: No significant
				difference $F = 0.79$
				Favorable: No effect
				Statistical significance: No
Author (Year):	Setting: Mix	Brief description of	Brief description:	To control for type I error - least
Stanton et al. (2004)	-	interventions and content:	Self-report past 6 months	significant differences (LSDs) multiple
	,	Base intervention: Focus on Kids	Youth Health Risk Behavior	comparisons procedure
Location: USA,		(FOK), an adolescent risk-	Inventory: 16 items (drug-use	
Maryland, Baltimore		reduction intervention; 8-	delinquent, and sexual risk);	Intraclass correlation coefficient (ICC),
	Urbanicity: Urban	session, theory-based, small	no biologic/other confirmation	adjusted for cluster randomization,
Years for Study: 1999	-	group, face-to-face risk-reduction		determined for each behavior and
and 2000	Eligibility:	intervention.	Substance(s)*	construct subscale score. A corrected
	All youth living at 35		Tobacco (smoking), alcohol,	independent sample t test, adjusting for
Period for Study: NR	low-income urban	Components: games,	cannabis, other drugs	ICC, was performed to adjust the test
	community (including	discussions, homework		statistics for the group difference.
Study Design: Group	public housing) sites;	assignments, videotapes	Polysubstance measures? No	
RCT	eligible to enroll even if			Intervention effects:
		Intervention 1: (FOK+ImPACT)	Outcome types (Type YES or	(1) overall intervention
CG Suitability: Greatest		after FOK, ImPACT intervention	NO next to each outcome)	= (1 vs 2) and (1 vs 3)
	to participate	(parental monitoring) without	Intentions? NO	(FOK only vs FOK+ImPACT) & (FOK
Risk of Bias		boosters; 1-session (20 min	Initiation? NO	only vs FOK + ImPACT + boosters)
Assessment	Recruitment:	videotape/ interactive role-play	Use? YES	(2) overall ImPACT additive
-		discussion with live feedback)	SU disorder? NO	= 1 vs (2 & 3)
b) Concealment -	in 3 waves (used local		Educational outcomes (test	(FOK only and FOK + ImPACT
Unclear		Intervention 2: (FOK+ImPACT+	score; attainment; grade	with/without boosters)
c) Blinding - Unclear	and housing	FOK booster)	retention; disciplinary actions;	(3) FOK boosters' additive effect
d) Outcomes - Low	development tenant	after FOK, ImPACT intervention	etc.)? YES	= 2 vs 3
e) Selective - Low	association members)	(parental monitoring) with four FOK session boosters in small	Mental health? NO Morbidity? NO	(FOK + ImPACT by boosters' presence or absence)
		groups; 1-session (20 min	Mortality? NO	
		groups, 1-session (20 mm		

(Wa				
	-	videotape/ interactive role-play	Equity (focused on one	Intervention 1: FOK+ImPACT (no
	,	discussion with live feedback)	historically disadvantaged	booster) – 1 vs 2
3 -	· 17 sites)	/	group)? YES	
		Intervention/program name:		Outcome: Tobacco use
	-	Focus on Kids (FOK) & Informed	Other outcomes?	Measure: percentage of participants
NR		Parents and Children Together (ImPACT) [FOK+ ImPACT]	Selling drugs, delinquent behaviors, sexual risk	(proportion) past 6 months
San	mple size:		behaviors, risk perception	Baseline
Bas	seline 817	Substance(s) focused* General	(subscales: self-efficacy,	Int (n=39): 25.3%
Int	: 496		response efficacy, severity,	Comp (n=53): 26.6%
FOK	K+ImPACT 258	Format: face-to-face group	vulnerability, intrinsic rewards,	Follow-up (in months): 24
FOR	K+ImPACT+booster		extrinsic rewards, and	Int (n=39): 12.1%
238		Intervention intensity:	response cost)	Comp (n=53): 22.7%
Con		FOK+ImPACT+boosters = FOK		Absolute change: -9.30 pct pts
		boosters, four 90-minute		Relative change: -41.81%
		sessions at 7, 10, 13, and 16		Narrative results: substance abuse
	,	months; if booster session		behaviors differed significantly (use of
		missed at community completed		cigarettes and other illicit drugs); risk
Con	ntrol 62% (199/321)	at home visit		behaviors lower among youth whose
				parents were in ImPACT enhanced
	'	Number of sessions or modules:		Favorable (Yes/No/No effect): Yes
	,	FOK+ImPACT $(9 = 8+1)$		Statistical significance: Yes, p=.008
		FOK+ImPACT+booster (13=		
Con	ntrol 38% (122/321)			Outcome: Alcohol use
		Number of hours per session:		Measure: percentage of participants
	udy population:	FOK+ImPACT = 1.5		(proportion) past 6 months
		FOK+ImPACT+booster = 1.5		Baseline
	regivers e: NR	Total hours of intervention:		Int (n=68): 44.2%
-				
		FOK+ImPACT = 13.5h = 9(1.5) FOK+ImPACT+booster = 19.5h =		Comp $(n=70)$: 35.2%
		13.5h + 4(1.5h)		Follow-up (in months): 24 Int (n=68): 26.2%
	ployment NR	13.511 + 4(1.511)		Comp (n=70): 27.3%
		Implementer(s)		Absolute change: -10.1 pct pts
		2 interventionists for FOK, 2 for		Relative change: -23.5%
		Impact		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: risk behaviors
	Study Population:	Intervention duration:		lower among youth whose parents
	Youth	FOK+ImPACT = NR		were in ImPACT enhanced
	Age: 14 (median), 13	FOK+ImPACT+booster = NR +		Favorable (Yes/No/No effect): Yes
	to 16 (baseline)	16 months (last booster)		Statistical significance: No, p=.850
	Grade level(s): NR			
	Sex: 60% female, 40%	Focus of intervention		Outcome: Cannabis use
	male	activities:		Measure: percentage of participants
	Race/ethnicity: 100%	Both parents/caregivers and		(proportion) past 6 months
	African American	youth: Yes		
	Other	Parents only: No		Baseline
				Int (n=38): 24.7%
	Community	Parent and child (either in the		Comp (n=48): 24.1%
	characteristics: NR	same session or not)? Yes		Follow-up (in months): 24
		Parent and child in the same		Int (n=38): 22.1%
		session/activity? Yes		Comp (n=48): 26.8%
				Absolute change: -5.3 pct pts
		Comparison group: Youth		Relative change: -19.5%
		received Focus on Kids (FOK), an		Narrative results: risk behaviors
		adolescent risk-reduction		lower among youth whose parents
		intervention; 8-session, theory-		were in ImPACT enhanced
		based, small group, face-to-face		Favorable (Yes/No/No effect): Yes
		risk-reduction intervention.		Statistical significance: No, p=.401
		Components: games,		Outcome: Other illicit drug use
		discussions, homework		Measure: percentage of participants
		assignments, and videotapes		(proportion) past 6 months
		Parents - attention control		Baseline
		"GoalforIT		Int (n=): NR
				Comp (n=): NR
		Components: 20 min video on		Follow-up (in months): 24
		establishing career goals,		Int (n=): 1.3%
		scripted text discussion		Comp (n=): 5.6%
				Absolute change (post): -4.30 pct
				pts

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Characteristics	Characteristics		Relative change (post): -76.7% Narrative results: substance abuse behaviors differed significantly (use of cigarettes and other illicit drugs); risk behaviors lower among youth whose parents were in ImPACT enhanced Favorable (Yes/No/No effect): Yes Statistical significance: Yes, p=.059 Outcome: disciplinary actions (suspension) Measure: mean no. days suspended Baseline Int (n=): NR Follow-up (in months): 24 Int (n=): 0.60 Comp (n=): 1.17 Absolute change (post): -0.57 pts Relative change (post): -48.7% Narrative results: marginal significance difference; risk behaviors lower among youth whose parents were in ImPACT enhanced Favorable (Yes/No/No effect): Yes Statistical significance: Yes, p=0.098, marginal Intervention 1: FOK+ImPACT+booster) – 1 vs 3 Outcome: Tobacco use
				Measure: percentage of participants (proportion) past 6 months

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline
				Int (n=28): 19.9%
				Comp (n=53): 26.6%
				Follow-up (in months): 24
				Int (n=28): 12.9%
				Comp (n=53): 22.7%
				Absolute change: -3.1 pct pts
				Relative change: -18.0%
				Narrative results: differed in a
				protective fashion, substance abuse
				behaviors differed significantly (use of
				cigarettes, marijuana)
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p=.016
				Outcome: Alcohol use
				Measure: percentage of participants
				(proportion) past 6 months
				Baseline
				Int (n=55): 39.0%
				Comp (n=70): 35.2%
				Follow-up (in months): 24
				Int (n=55): 26.4%
				Comp (n=70): 27.3%
				Absolute change: -4.70 pct pts
				Relative change: -12.7%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No, p=.887
				Outcome: Cannabis use
				Measure: percentage of participants
				(proportion) past 6 months
				Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int (n=36): 25.5%
				Comp (n=48): 24.1%
				Follow-up (in months): 24
				Int (n=36): 14.3%
				Comp (n=48): 26.8%
				Absolute change: -11.9 pct pts
				Relative change: -49.5%
				Narrative results: differed in a
				protective fashion, substance abuse
				behaviors differed significantly (use of
				cigarettes, marijuana)
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p=.019
				Outcome: Other illicit drug use
				Measure: percentage of participants
				(proportion) past 6 months
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months): 24
				Int (n=): 1.4%
				Comp (n=): 5.6%
				Absolute change (post): -4.20 pct
				pts
				Relative change (post): -89.2%
				Narrative results: differed in a
				protective fashion, marginal
				significance difference
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p=.073
				Outcome: disciplinary actions
				(suspension)
				Measure: mean no. days suspended

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months): 24
				Int (n=): 0.69
				Comp (n=): 1.17
				Absolute change post): -0.48 pts
				Relative change (post): -41.0%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No, p=.174
				Intervention 1: FOK+ImPACT (with
				or without booster) – 1 vs 2 and 3
				Outcome: Tobacco use
				Measure: percentage of participants
				(proportion) past 6 months
				Baseline
				Int (n=67): 22.7%
				Comp (n=53): 26.6%
				Follow-up (in months): 24
				Int (n=67): 12.5%
				Comp (n=53): 22.7%
				Absolute change: -6.30 pct pts
				Relative change: -30.3%
				Narrative results : After adjusting for
				ICC, the substance abuse behaviors
				differed significantly (use of cigarettes, marijuana, and other illicit drugs); risk
				behaviors lower among youth whose
				parents were in ImPACT
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p=.003

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Outcome: Alcohol use Measure: percentage of participants
				(proportion) past 6 months Baseline Int (n=123): 41.7%
				Comp (n=70): 35.2% Follow-up (in months): 24 Int (n=123): 26.3% Comp (n=70): 27.3%
				Absolute change: -7.50 pct pts Relative change: -18.6% Narrative results: risk behaviors lower among youth whose parents
				were in ImPACT Favorable (Yes/No/No effect): Yes Statistical significance: No, p=.844
				Outcome: Cannabis use Measure: percentage of participants (proportion) past 6 months
				Baseline Int (n=74): 25.1% Comp (n=48): 24.1% Follow-up (in months): 24 Int (n=74): 18.3%
				Comp (n=48): 26.8% Absolute change: -9.50 pct pts Relative change: -35.9% Narrative results: After adjusting for
				ICC, the substance abuse behaviors differed significantly (use of cigarettes, marijuana, and other illicit drugs); risk

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				behaviors lower among youth whose
				parents were in ImPACT
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p=.056
				Outcome: Other illicit drug use
				Measure: percentage of participants
				(proportion) past 6 months
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months): 24
				Int (n=): 1.4%
				Comp (n=): 5.6%
				Absolute change (post): -4.20 pct
				pts
				Relative change (post): -75.0%
				Narrative results: After adjusting for
				ICC, the substance abuse behaviors
				(other illicit drugs) differed
				significantly; lower among youth whose
				parents were in ImPACT
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p=.015
				Outcome: disciplinary actions
				(suspension)
				Measure: mean no. days suspended
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months): 24
				Int (n=): 0.65
				Comp (n=): 1.17

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Absolute change (post): -0.52 pts Relative change (post): -45.2% Narrative results: Risk behaviors lower among youth whose parents were in ImPACT Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes, p=.046 FOK+ImPACT (with vs without booster) – 2 vs 3. No significant differences determined on any substance use behaviors or mean no. days suspended.
				Outcome: Tobacco use Measure: percentage of participants (proportion) past 6 months
				Baseline Int (n=28): 19.9% Comp (n=39): 25.3% Follow-up (in months): 24 Int (n=28): 12.9% Comp (n=39): 12.1% Absolute change: +6.20 pct pts Relative change: +28.0% Narrative results: NR Favorable (Yes/No/No effect): Yes, without boosters had higher reduction
				rate than boosters Statistical significance: No, p=.859 Outcome: Alcohol use
				Measure: percentage of participants (proportion) past 6 months

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline
				Int (n=55): 39.0%
				Comp $(n=68)$: 44.2%
				Follow-up (in months): 24
				Int (n=55): 26.4%
				Comp (n=70): 26.2%
				Absolute change: +5.40 pct pts
				Relative change: +14.2%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes,
				without boosters had higher reduction
				rate than boosters
				Statistical significance: No, p=.968
				Outcome: Cannabis use
				Measure: percentage of participants
				(proportion) past 6 months
				Baseline
				Int (n=36): 25.5%
				Comp (n=38): 24.7%
				Follow-up (in months): 24
				Int (n=36): 14.3%
				Comp (n=38): 22.1%
				Absolute change: -8.60 pct pts
				Relative change: -37.3% Narrative results: NR
				Favorable (Yes/No/No effect): Yes,
				boosters had higher reduction rate
				than without boosters
				Statistical significance: No, p=.141
				Outcome: Other illicit drug use
				Measure: percentage of participants
				(proportion) past 6 months

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline Int (n=): NR Comp (n=): NR Follow-up (in months): 24 Int (n=): 1.4% Comp (n=): 1.3% Absolute change (post): +0.10 pct pts Relative change (post): +7.7% Narrative results: NR Favorable (Yes/No/No effect): No effect Statistical significance: No, p=.954 Outcome: disciplinary actions (suspension) Measure: mean no. days suspended Baseline Int (n=): NR Comp (n=): NR Follow-up (in months): 24 Int (n=): 0.69 Comp (n=): 0.60 Absolute change (post): +0.09 pct pts Relative change: NR Narrative results: NR
				Favorable (Yes/No/No effect): No effect Statistical significance: No, p=.665
Author (Year): Stormshak et al. (2011)		Brief description of interventions and content: Family resource center (FRC) -	Brief description youth self-report Antisocial behavior 11 items	Intent to treat analysis; gender and ethnicity were used as covariates in the analyses.
Related Paper: Van Ryzin et al., 2012	Urbanicity: urban	first level, universal intervention	(lying to parents, staying out, all night without permission,	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Eligibility: All 6 th	in participating public middle	stealing, carrying a weapon,	Count (Alcohol use, tobacco use, and
Location: USA, Oregon		schools.	and physical aggression)	marijuana use) and continuous
	students in selected	Components: pamphlets, books,		(antisocial behavior) outcomes
Years for Study:	school sites	and other information about	Engagement status:	(untisocial benavior) outcomes
Started et al., 2005		parenting	(1=comply, 0=noncomply)	Latent growth modeling (LGM)
	Recruitment: 3 public	parenting	reflect family participation in	examines intervention effect for
Period for Study:	middle schools in	FCU - brief three-session	FCU and further intervention	engagers and change in outcomes over
Stormshak et al., 36	ethnically diverse	meetings with caregivers.	services as warranted	time within Complier average causal
months 3 years (6 th -8 th)	urban area		Services as warranted	effect (CACE) analytic framework. N
Van Ryzin et al., 48		1. initial interview, practitioner	Child ethnicity: European	
months intervention 4	Inclusion/Exclusion:	facilitates discussion about goals	American families = reference	For compliers, negative coefficients
years ($6^{th} - 9^{th}$ grade)	NR	and concerns with parents and	group in CACE analyses	indicate intervention had significantly
		about their personal motivation		less steep rate of change across time
Study Design:	Sample size:	for change.	Substance(s)*	compared with control
Individual RCT	Baseline 593		Alcohol, Tobacco, Cannabis	
	Int 65% (386/593)	2. brief assessment packet given		Stormshak (2011) – Wave 3 data
CG Suitability:		to parent, child, and teacher and	Polysubstance measures? No)	
Greatest		a videotaped family interaction		Outcome: Antisocial behavior
	Follow-up	assessment.	Outcome types	Measure: Scale range: 1 (never) to 6
Risk of Bias	(Wave 3) 81%		Intentions? No	(> 20 times) based on 11 items
Assessment	(481/593)	3. feedback session to discuss	Initiation? No	
a) Randomization -	Int 74% (287/386)	results of assessment (a)	Use? YES	Baseline
Unclear Low	(full) 42% (163/386)	providing motivation to change	SU disorder? No	Int (n=386): NR
b) Concealment - Low	(partial) 51%	(b) identifying appropriate	Educational outcomes (test	Comp (n=207): NR
c) Blinding - Low	(197/386)	resources from family-based	score; attainment; grade	Follow-up (in months): 24
d) Outcomes - Low	Control 83% (172/207)		retention; disciplinary actions;	Int (n=386): NR
e) Selective - High		•	etc.)? No	Comp (n=207): NR
-,	Loss to f/u	feedback session received in 7 th	Mental health (depressive	Absolute change: NR
	Int 26% (99/386)	grade (n =138), 8^{th} (n=23) or 9^{th}	symptoms; anxiety; etc.)? YES	Relative change: NR
	Control 17% (35/207)	(n=2) grade (last only in Van	(antisocial behavior)	Narrative results: significant
	- (,,	Ryzin, et al (2012) study)	Morbidity? No	intervention effects for all four
	Study population:		Mortality? No	outcomes, with intervention predicting
	Parents and	Intervention/program name:	Equity (stratified analysis;	significantly less growth; (Figure 2)
	Caregivers	Family Check-Up (FCU)	focused on one historically	compliers in intervention maintain flat
	Age: NR		disadvantaged group)? YES	level but control had a steep increase
	Sex: NR	Substance(s) focused*		Favorable (Yes/No/No effect): Yes

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Race/ethnicity: NR	General	Other outcomes? NR	Statistical significance: Yes
	Education: NR			
	Employment NR	Format: face-to-face one-on-one		Outcome: Alcohol use
	Income: NR			Measure: Scale range: 0 (never) to 11
	Marital status: NR	Intervention intensity: NR		(10-20 drinks), or to 13 (41+ drinks)
		Number of sessions or modules:		based on frequency in past month
	Study Population:	3		
	Youth	Number of hours per session:		Baseline
	Age: 11.88 years	NR		Int (n=386): NR
	Grade level(s): 6 th	Total hours of intervention:		Comp (n=207): NR
	grade (baseline), 80%	146 min (or 2.5 hr) average		Follow-up (in months): 24
	were 7^{th} and 8^{th} (at	(Stormshak)		Int (n=386): NR
	intervention)	262 minutes (4.4 hours) average		Comp (n=207): NR
	Sex: 51% male, 49%	(Van Ryzin)		Absolute change: NR
	female			Relative change: NR
	Race/ethnicity:	Additional components (things		Narrative results: significant
	European American	outside the sessions/modules)		intervention effects for all four
	36.1%, Latino /			outcomes, with intervention predicting
	Hispanic 18%, African	Following FCU, parents who		significantly less growth; (Figure 2)
	-	needed additional support offered		compliers in intervention maintain flat
	-	adaptive, tailored interventions		level but control had a steep increase
		that targeted specific parenting		Favorable (Yes/No/No effect): Yes
		skills or home-to-school plan		Statistical significance: Yes
	/ mixed ethnicity 19.2%			
		Implementer(s)		Outcome: Tobacco use
	Community	Trained, educated, and		Measure: Scale range: 0 (never) to 5
		experienced parent consultants;		(5 cigarettes), to 12 (1 pack), or to 16
		ethnical matched when possible		(5+ packs) based on frequency in past
	risk population of youth			month
	and families (35%,	Intervention duration: NR		
	89%, and 39% of			Baseline
	families received free	Focus of intervention		Int (n=386): NR
	or reduced-price	activities:		Comp (n=207): NR
		Both parents/caregivers and		Follow-up (in months): 24
	of school population	youth: Yes		Int (n=386): NR
		Parents only: No		Comp (n=207): NR

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	qualified for special			Absolute change: NR
	education services.	Parent and child (either in the		Relative change: NR
		same session or not)? (Yes)		Narrative results: significant
		Parent and child in the same		intervention effects for all four
		session/activity? (Yes)		outcomes, with intervention predicting
				significantly less growth; (Figure 2)
		Comparison group: Middle		compliers in intervention maintain flat
		school services as usual		level but control had a steep increase
				Favorable (Yes/No/No effect): Yes
		"school as usual," included		Statistical significance: Yes
		regular services offered by		
		schools, but no access to any of		Outcome: Cannabis Use
		intervention services available to		Measure: Scale range: 0 (never) to 6
		families in intervention condition.		(6 times), or to 13 (41+ times) based
				on frequency in past month
				Baseline
				Int (n=386): NR
				Comp (n=207): NR
				Follow-up (in months): 24
				Int (n=386): NR
				Comp (n=207): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: significant
				intervention effects for all four
				outcomes, with intervention predicting
				significantly less growth; (Figure 2)
				compliers in intervention maintain flat
				level but control had a steep increase
				Favorable (Yes/No/No effect): Yes
				Statistical significance: Yes
				Overall study analysis (N=593)
				Means suggest an increase in problem
				behavior from sixth to eighth grades for

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				all four outcomes (antisocial behavior and substance use). Correlations in Table 2 reveal a general pattern of moderate correlations between the variables both within time and across outcomes.
				CACE analysis – for compliers and non- compliers, all outcomes (antisocial behavior, alcohol use, tobacco use, and marijuana use) statistically significant from 6 th – 8 th .
				Noncompliers - For antisocial behavior, boys and African American and other ethnicity (non-European) youth showed significantly higher initial levels
				Compliers - For antisocial behavior, boys and African American and other ethnicity (non-European) youth showed significantly higher initial levels. African Americans showed greater declines in alcohol use but greater growth in marijuana use relative to European American youth. Youth in Other
				ethnicity group exhibited significantly greater growth in tobacco use relative to European American.
				Effect size (Cohen's d, large=.80): antisocial behavior d = 1.42, cigarette use d = 0.75; alcohol use d = 1.69; and marijuana use d = 1.10.
				Van Ryzin (2012) - Wave 4 data

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				For compliers, intervention relatively flat level over time for antisocial behavior and alcohol use, control steep increase.
				Effect size (Cohen criteria) calculations not completed for count-based data, such as alcohol use. Large effect size for antisocial behavior (.86)
Author (Year):	Setting: Mix	Brief description of	Brief description: YHRBI,	Baseline equivalence examined at each
Tingey et al. (2021),	(Community-home)	interventions and content:	self-report on future intention:	time point for full sample and for each
protocol paper Tingey		Content and skills delivered to	Being in this program makes	subgroup to ensure that attrition did
et al. (2017)	Urbanicity:	youth (self-selected peer group)	me think twice before using	not impact study groups differentially
	Rural (reservation)	via summer basketball camp &	alcohol or drugs.	and that any missing data were
Location: USA,		at-home post-camp session with		missing at random.
Southwest (reservation)		parent/trusted adult	Outcome measures based on	
	19, self-identified as		individual questions most	Linear regression, controlling for
Years for Study:	Native American	Included education and role-	relevant to substance use than	baseline age and sex, to test between
	ethnicity, enrolled	playing, a problem-solving	multi-item scales.	study group differences in outcomes at
implementation 2016-	members, or residents	model, communication with peers		baseline, 3-, 9-, and 12-month post-
2018)	of participating Tribal	and parents/trusted adults,	Mean (SE) of Likert Scale	intervention. Models were stratified by
Dawlad fan Chudur 70	community on a rural	sexual partner negotiation skills,	(Range 1-5):	sex and age $(11 - 12, 13 - 14, and$
Period for Study: 72	reservation; written informed consent	and decision making.	Strongly Agree (1), Kind of	15+ years of age) to examine
monoths (3 cohorts 2016, 2017, 2018)	(parent/guardian	Intervention/program name:	Agree (2), Don't Know (3), Kind of Disagree (4), Strongly	differences within these subgroups.
(assessed 3 months, 9	consent if 11–17 years	Respecting the Circle of Life	Disagree (5)	Outcome: future intention to use
months, 12 months)	old)	program (RCL)	Disagree (5)	alcohol and drugs (Table 3)
monuns, 12 monuns)	olu)		Lower scores = better	Measure: scale, adjusted means
Study Design:	Recruitment:	Substance(s) focused*	Collected: 3, 9, 12 months	
Individual RCT	Enrollment from May	General		Overall
	2016 through June		All outcome variables were	Int (n=NR): NR
CG Suitability:	2018, non-probability	Format: face-to-face group	analyzed for the full sample	Comp $(n=NR)$: NR
Greatest	sampling through		and by subgroup of sex and	Follow-up (in months): 12
	public postings in			Int $(n=207)$: 1.75 (0.07)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Risk of Bias	community gathering	Intervention intensity: daily	age (11- 12, 13- 14 and 15+	Comp (n=210): 2.03 (0.07)
Assessment (ROB2)	spots (i.e.,	over 8 days	years of age; Table 2).	Absolute change: -0.28 pts
a) Randomization –		Number of sessions or modules:		Relative change: -13.79%
High	fitness center, etc.),	8 group, 1 private	Substance(s)*	Narrative results: (lower score =
b) Deviations – Low	through public service	Number of hours per session:	alcohol/drugs	better) youth in RCL program had
c) Missing data- Low	announcements on the	youth only (~2h) youth/parent		statistically significantly scores in
d) Outcomes	local radio, by print	(~1.5h-2h)	Polysubstance measures? YES	response to if program they received
measurements- Low	advertising in the local	Total hours of intervention: ~18h		made them think twice about using
e) Selective – Low	newspaper, during	(16h youth only, 2h	NO next to each outcome)	alcohol or drugs at both 9- and 12-
e) Selective - Low	public gatherings (i.e.,	youth/parent)	Intentions? YES	month follow-up; AMD (95% CI) = $-$
Overall bias: High	health fairs, parades,		Initiation? NO	0.28 (-0.48 to - 0.08)
Overall blas. High	etc.) and through local	Additional components (things	Use? NO	Favorable (Yes/No/No effect): Yes
	schools	outside the sessions/modules)	SU disorder? NO	Statistical significance: 0.0061 at p <
	schools	NR	Educational outcomes (test	
	Inclusion/Exclusion:	NR	score; attainment; grade	0.01
	-	Implementar(a) 2 trained	· · · · -	Condor
	above	Implementer(s) 2 trained	retention; disciplinary actions;	Gender Girls
	Comple size:	facilitators from the participating	etc.)? NO	
	Sample size:	Tribal community. parent child	Mental health (depressive	Int (NR): NR
	Baseline 534	session delivered by AI	symptoms; anxiety; etc.)? NO	Comp (NR): NR
	Int 268	community health worker	Morbidity? NO	Follow-up (in months): 12
	Control 266	.	Mortality? NO	Int (n=108): 1.72 (0.10)
		Intervention duration: eight-	Equity (stratified analysis;	Comp (n=113): 2.10 (0.10)
	Follow-up 78%	day camp + 1 post camp session	focused on one historically	Absolute change: -0.37 pts
	(417/534)	within 3 months	disadvantaged group)? YES	Relative change: -18.10%
	Int 77% (207)		(gender, native American)	Narrative results: (lower score =
	Control 79% (210)	Focus of intervention		better) Girls in RCL program had
		activities	Other outcomes? risk and	statistically significantly scores in
	Loss to f/u 22%	Both parents/caregivers and	protective factors for substance	
	Int 23%	youth: Yes	use based on relationship	received made them think twice about
	Control 21%	Parents only: No	categories (peers, parents, and	using alcohol or drugs at both 9- and
			sexual partners)	12-month follow-up; AMD (95% CI) =
	Study population:	Parent and child (either in the		– 0.37 (– 0.65 to – 0.09)
	Parents and	same session or not)? Yes		Favorable (Yes/No/No effect): Yes
	Caregivers (Total)	(parents only received post camp		Statistical significance: $p = 0.01$
	Age: NR	session at home)		
	Sex: NR			Boys

Race/ethnicity: Native American American Education: NR Education: NR Employment NR Income: NR Other NRParent and child in the same session/activity? Yes (post camp only)Int (n=NR): NR Comp (n=NR): NR Comp (n=NR): NR Comp (n=NR): 1.2 Int (n=99): 1.79 (0.10)Study Population: Youth (Total) Age: range=11-19 37.8 % 11- 12, Grade level(s): NR Sex: 47.4 % male, 52.6% female Race/ethnicity: 100% Native AmericanParent and child in the same session/activity? Yes (post camp only)Int (n=NR): NR Comp (n=NR): NR Comp (n=97): 1.96 (0.10)Relative American Community characteristics: NRComp orup: Delivered via an eight-day to youth via summer camp at separate facility from intervention to reduce the potential for contamination. At- home post-camp lesson with parent/trusted dultInt (n=NR): NR Comp (n=97): 1.96 (0.10)Age: range=11-19 37.8 % 11- 12, Grade level(s): NR Sex: 47.4 % male, 52.6% female Race/ethnicity: 100% Native AmericanFrom protocol paper: Lesson content: (1) knowledge about food labels and general nutrition; (2) information about different to eat healthy; and (4) relaxation techniques.Native America: Comp (n=26): 1.88 (0.11) Absolute change: -0.15 pts Relative change: -0.3 pts Rel	Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
		Race/ethnicity: Native American Education: NR Employment NR Income: NR Marital status: NR Other NR Study Population: Youth (Total) Age: range=11-19 37.8 % 11- 12, 39.5 % 13- 14, 22.7 % 15-19 Grade level(s): NR Sex: 47.4 % male, 52.6% female Race/ethnicity: 100% Native American	Parent and child in the same session/activity? Yes (post camp only) Comparison group: Delivered via an eight-day to youth via summer camp at separate facility from intervention to reduce the potential for contamination. At- home post-camp lesson with parent/trusted adult From protocol paper: Lesson content: (1) knowledge about food labels and general nutrition; (2) information about different types of physical activity; (3) activities to encourage youth to eat healthy; and		Comp (n=NR): NR Follow-up (in months): 12 Int (n=99): 1.79 (0.10) Comp (n=97): 1.96 (0.10) Absolute change: -0.18 pts Relative change: -0.18 pts Relative change: -8.67% Narrative results: For boys, no statistically significant differences between intervention and control in program making them think twice about using alcohol or drugs at any follow-up time point. AMD (95% CI): - 0.18 (-0.46- 0.11) Favorable (Yes/No/No effect): No Statistical significance: 0.2195 Age Group 11- 12 Years Int (n=): NR Follow-up (in months): 12 Int (n=77): 1.73 (0.11) Comp (n=76): 1.88 (0.11) Absolute change: -0.15 pts Relative change: -7.98% Narrative results: AMD (95% CI) = - 0.15 (-0.46- 0.15) Favorable (Yes/No/No effect): No/No effect Statistical significance: 0.3169 13- 14

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int (n=79): 1.67 (0.13) Comp (n=89): 2.28 (0.12) Absolute change: -0.61 pts Relative change: -26.75% Narrative results: For youth ages 13– 14 receiving RCL the impact on this variable demonstrated at all follow-up time points. AMD (95% CI) = – 0.61 (– 0.96 to – 0.26) Favorable (Yes/No/No effect): Yes Statistical significance: p = 0.0007 15+ Int (n=): NR Follow-up (in months): 12 Int (n=51): 1.92 (0.13) Comp (n=45): 1.81 (0.14) Absolute change: +0.11 pts Relative change: +6.08% Narrative results : For youth ages 15 and older, no statistically significant differences between intervention and control in program making them think twice about using alcohol or drugs at any follow-up time point. AMD (95% CI) = 0.11 (-0.26– 0.49) Favorable (Yes/No/No effect): No/No effect Statistical significance: 0.5556
Author (Year): Werch et al. (1998)	Setting : Mix (consultation setting [not clear where	Brief description of interventions and content:	-	Not intent to treat, 4 items omitted due to inconsistent responses on alcohol consumption

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population	Intervention	Outcomes	Results
	Characteristics	Characteristics		
Location: USA, Florida,	consultation took	1 consultation + 1 letter + 2-9	Alcohol consumption measures	
Jacksonville	place] + home)	family-lesson worksheets	included lifetime use (ever	Pretest and 1 -year follow-up drug use
			used); 30-day and 7-day	and project process data (i.e., student
Years for Study: 1995	Urbanicity: Urban	1) brief one-on-one health	frequency of use; 30-day and	and parent feedback on interventions)
		consultation by nurse on why and		analyzed using chi-square analyses for
Period for Study (total	Eligibility: 6 th grader at	how child should avoid alcohol	"heavy drinking (consuming 5	dichotomous variables, and t-tests and
time in months): 13	selected middle school		or more drinks) in a row during	ANCOVAs for continuous measures.
months	with informed consent	physician endorsed parent	last 30-days and two weeks.	
(1 month intervention +		(guardian) letter (1-2 page) with		ANCOVAs performed with pretest
12 months follow-up)	Recruitment: 6th	key facts for them to read and	Alcohol use initiation stages:	scores serving as covariates.
	grade students from a	discuss avoiding alcohol with kids	during last year did you start	
Study Design:	middle school in		drinking alcohol	Most 6th grade students reported not
Individual RCT	economically	based on risk factor - up to	(precontemplation,	having used alcohol, ANCOVAs
	disadvantaged inner	nine physician-endorsed family-	contemplation, preparation,	analyzing subset reporting current
CG Suitability:	city of Jacksonville,	based prevention lessons	action, maintenance)	alcohol use at end
Greatest	Florida	including 2-4 pages of exercises		
		(facts/activities) parents and	Substance(s)* alcohol	Outcome: Alcohol use initiation
Risk of Bias	Inclusion/Exclusion:	children completed together, and	Polysubstance measures? No	(precontemplation stage)
Assessment	above	contract for parent and child to		Measure: Percentage (proportion) did
a) Randomization - Low		sign, identifying a specific	Outcome types	not try alcohol last year
b) Concealment - Low	Sample size:	behavioral task for child to work	Intentions? Yes, contemplation,	
c) Blinding - High	Baseline: 211	on throughout week.	preparation	Baseline
d) Outcomes - High	Int: 106		Initiation? Yes,	Int (n=106): 85%
e) Selective - High	Control: 105	Intervention/program name:	precontemplation to action	Comp (n=105): 87%
		Start Taking Alcohol Risk	Use? Yes	Follow-up (in months): 12 months
	Follow-up: 68%	Seriously (STARS) for Families	SU disorder? No, unless heavy	Int (n=73): 93%
	(143/211)	Programs	drinking counts	Comp (n=70): 93%
	Int (73/143)		Educational outcomes? No	Absolute change: +2 pct pts
	Control (70/143)	Substance(s) focused* alcohol	Mental health? No	Relative change: +2.5%
			Morbidity? No	Narrative results: No significant
	Loss to f/u: 32%	Format: both (face-to-face and	Mortality? No	differences were found between the
		workbook)	Equity (focused on one	intervention and control groups using
	Study population:		historically disadvantaged	chi-square tests
	Parents and	Intervention intensity: mailed	group)? Yes (economically	Favorable (Yes/No/No effect): No
	Caregivers	two lessons at a time, each	disadvantaged)	Statistical significance: No
	Age: NR	week.		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: NR		Other outcomes? NR	Outcome: Alcohol use intention
	Race/ethnicity: NR	Number of sessions or		(contemplation and preparation
	Education: NR	modules: 1 session + 2- 9		stages)
	Employment: NR	worksheets (5.5 mean)		Measure: percentage (proportion)
	Income: NR	Number of hours per session:		thinking of trying alcohol soon
	Marital status: NR	1/3 hour for face-to-face		(contemplation), planning to start
	Other: NR	(average time 16.9 min) + 2 to 9 self-paced exercises		drinking soon (preparation)
	Data collected from	Total hours of intervention: NR		Baseline
	Table 1, Intervention			Int (n=106): NR
	group (n=106)	Additional components (things		Comp (n=105): NR
	Study Population:	outside the sessions/modules)		Follow-up (in months): 12 months
	Youth	NR		Int (n=73): 1%
	Age: 12.2 years			Comp (n=70): 1%
	Grade level(s): 6 th	Implementer(s): 6 nurses		Absolute change: 0 pct pts
	grade	(received 1-day training)		Relative change: 0%
	Sex: 47% female; 53%			Narrative results: NR
	male	Intervention duration: 1		Favorable (Yes/No/No effect): No
	Race/ethnicity: 87%	month (post testing at 1 month		effect
	Black or African	and follow-up at 12 months)		Statistical significance: No
	American; 11% White;			
	1% other	Focus of intervention		Outcome: Alcohol use (Table 2)
	Other: 77% in free	activities:		Measure: percentage (proportion) 30-
	lunch program; 32%	Both parents/caregivers and		Day use
	have immediate family	youth: Yes		
	member with an	Parents only: No		Baseline
	alcohol or drug use			Int (n=106): NR
	associated problem;	Parent and child (either in the		Comp (n=105): NR
	65% had no prior	same session or not)? Yes		Follow-up (in months): 12 months
	alcohol or drug	Parent and child in the same		Int (n=73): 7%
	education during the	session/activity? Yes (family-		Comp (n=70): 4%
	last year	based)		Absolute change (post): +3 pct pts
	Living arrangement			Relative change (post): +75%
	33% mother and	Comparison group: 15 pg		Narrative results: No significant
	father, 49% mother	alcohol education booklet (Young		differences were found between the
		People and Alcohol-What the Ads		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Study			Outcomes	Resultsintervention and control groups using chi-square testsFavorable (Yes/No/No effect): No Statistical significance: NoOutcome: Alcohol use (Table 2) Measure: percentage (proportion) 7- Day useBaseline Int (n=): NR Follow-up (in months): 12 months
				Int (n=): NR Comp (n=): NR Follow-up (in months): 12 months Int (n=73): 5% Comp (n=70): 1% Absolute change (post): +4 pct pts

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Relative change (post): +400% (post only): Narrative results: No significant differences were found between the intervention and control groups using chi-square tests Favorable (Yes/No/No effect): No Statistical significance: No
				Outcome: Alcohol use (Table 2) Measure: percentage (proportion) 2 week "heavy"
				Baseline Int (n=): NR Comp (n=): NR Follow-up (in months): 12 months Int (n=73): 5%
				Comp (n=70): 4% Absolute change: +1 pct pts Relative change: +25% Narrative results: No significant differences were found between the
				intervention and control groups using chi-square tests Favorable (Yes/No/No effect): No effect Statistical significance: No
				Outcome: Alcohol use (Table 3) Measure: adjusted mean alcohol frequency Baseline
				Int (n=): NR Comp (n=): NR Follow-up (in months): 12 months

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Characteristics	Characteristics		Int (n=73): 0.31 Comp (n=70): 0.20 Absolute change: +0.11 Relative change: +55% Narrative results: No significant differences were at follow-up using ANCOVA tests with pretest scores used as covariates. Favorable (Yes/No/No effect): No effect Statistical significance: No Outcome: Alcohol consumption (Table 3) Measure: adjusted mean alcohol quantity Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up (in months): 12 months Int (n=73): 0.26 Comp (n=70): 0.16 Absolute change (post): +0.10 Relative change (post): +62.5% Narrative results: No significant differences were at follow-up using ANCOVA tests with pretest scores used as covariates. Favorable (Yes/No/No effect): No effect Statistical significance: No Outcome: Alcohol consumption
				(Table 3) Measure: adjusted mean heavy alcohol use

Characteristics	Characteristics	Outcomes	Results
			Baseline
			Int (n=NR): NR
			Comp (n=NR): NR
			Follow-up (in months): 12 months
			Int (n=73): 0.16
			Comp (n=70): 0.10
			Absolute change (post): +0.06
			Relative change (post): +60.0%
			Narrative results: No significant
			differences were at follow-up using
			ANCOVA tests with pretest scores used
			as covariates.
			Favorable (Yes/No/No effect): No effect
			Statistical significance: No
			Subset Current drinkers only
			(Table 4)
			Outcome: Alcohol use
			Measure: adjusted mean alcohol
			frequency
			Baseline
			Int (n=): NR
			Comp (n=): NR
			Follow-up (in months): 12 months
			Int (n=73): 2.96
			Comp (n=70):2.72
			Absolute change (post): +0.24
			Relative change (post): +8.8%
			Narrative results: No differences
			were found on any of the three alcohol
			use measures between groups at 1 -
			year follow-up using ANCOVA
			Favorable (Yes/No/No effect): No effect Statistical significance: No

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Outcome: Alcohol use
				Measure: adjusted mean alcohol
				quantity
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months): 12 months
				Int (n=73): 2.92
				Comp (n=70): 3.57
				Absolute change (post): -0.65
				Relative change (post): -17.0%
				Narrative results: No differences
				were found on any of the three alcohol
				use measures between groups at 1 -
				year follow-up using ANCOVA
				Favorable (Yes/No/No effect): No effect
				Statistical significance: No
				Outcome: Alcohol use
				Measure: adjusted mean heavy alcohol
				use
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months): 12 months
				Int (n=73): 2.32
				Comp (n=70): 2.07
				Absolute change (post): +0.25
				Relative change (post): +12.0%
				Narrative results: No differences
				were found on any of the three alcohol
				use measures between groups at 1 -
				year follow-up using ANCOVA
				Favorable (Yes/No/No effect): No effect

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Statistical significance: No
				At post-test:
				ANCOVA results showed a significant difference on current frequency of use, with intervention subjects reporting less frequent alcohol use ($rn = 1.86$) than control subjects ($rn = 3.66$), F(1,22) = 5.34, p = .03.
Author (Year): Werch	Setting: Mix (wherever	Brief description of	Brief description:	Subject differences b/w two schools,
et al. (2003)		interventions and content:	'dipstick' saliva pipeline	school-site data analyzed as separate
		2 consultations + up to 10	procedure to validate self-	samples
Location: USA, Florida,		postcards + 4 family-lesson	reported alcohol use	
Jacksonville	Urbanicity: Urban	worksheets		Pre-test and selected follow-up
			77-item Youth Alcohol and	alcohol/drug use and risk/protective
Years for Study: 1996	Eligibility: 6 th grader	6 th grade	Drug Survey; alcohol	factor data analyzed using $\chi 2$ analyses
- 1998	at selected middle	Fall semester: one-on-one health	consumption measures	for dichotomous variables and ANOVAs
	school with informed	consultation by nurse on why and		for continuous measures.
Period for Study: 36	consent	how the child should avoid	used); 30-day and 7-day	
months (24 months		alcohol - as many as 12 risk &	frequency of use; 30-day and	F/u alcohol use outcome data analyzed
intervention, 12 months		protective factors addressed	7-day quantity of use; and	using MANOVAs, 1 st measures, 2 nd
-	-	based on risk (ex: students in	"heavy drinking (consuming 5	risk/protective factors. MANOVAs used
NOTE: additional papers		preparation, action, or	or more drinks) in a row in last	to control for type I errors over two
		maintenance stage of initiating	30-days and two weeks.	dependent variable sets
	-	alcohol use given prevention		
		message addressing emotional	SCALED DATA, NOT REPORTED	MANOVA and MANCOVA analyses
2001) data	disadvantaged inner	coping responses to deal with	in outcome summary b/c have	examining collapsed school data due to
	,,	stress that could lead to alcohol	actual data	small sample sizes for individual
Study Design: Individual RCT	by project staff fall	use)		schools. Even with combining school
	1996	Coring competers mailed to	Alcohol use initiation:	data, power analysis concluded lack of power to detect small effect sizes.
CG Suitability:	Inclusion/Exclusion:	Spring semester: mailed to parents/guardians physician	During the last year did you start drinking alcohol?	power to detect small effect sizes.
Greatest	Above	endorsed prevention postcards	(a) I did not try it last year	Post hoc t-tests conducted for
Ulealest	ADOVE	on what to say to children on	(precontemplation)	significant interaction effects
	Sample size:	avoiding alcohol. (Mailed up to		

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
Risk of Bias	Baseline 650	10 postcards based on youth	(b) I am thinking of trying	Not included in outcome summary:
Assessment	magnet 388	stage status and risk/protective	alcohol soon (contemplation)	Table III. scale, mean alcohol use
a) Randomization - Low	Neighborhood 272	factors)	(c) I am planning to start	and risk measures over time by
b) Concealment -	Intervention NR		drinking soon (preparation) (d)	group and school
Unclear	Control NR	7 th grade	I started drinking during the	
c) Blinding - High		Fall semester: follow-up nurse	last 6 months (action)	Magnet School
d) Outcomes - High	Follow-up: 78%	consultation	(e) I have been drinking for	Outcome: Alcohol intentions (Table
e) Selective - Low	(507/650)		longer than 6 months	1)
	Total Intervention: 250	Spring semester: physician-	(maintenance)	Measure: percentage (proportion) plan
	Int (magnet) 150	endorsed family-lessons		to drink in next 6 months
	Int (neighborhood) 100	providing activities to enhance	Two items were used to	
	Total Control: 257	parent-child communication	measure motivation to avoid	Baseline
	Control (magnet) 150	regarding prevention skills and	alcohol during the next 30 days	Int (n=): NR
	Control (neighborhood)	knowledge. Contract in each	and year.	Comp (n=): NR
	107	lesson, child made promise to		Follow-up (in months): 36 months (12
		avoid alcohol each day during	Due to large # of risk factor	months post intervention)
	Loss to f/u: 22%	next week. One lesson/week for	measures, only most highly	Int (n=150): 5.4%
		4 consecutive weeks (2 risk, 2	correlated with pre-test alcohol	Comp (n=150): 18.0%
	Study population:	protective)	use measures selected as	Absolute change (post): -12.6 pct
	Parents and		dependent variables	pts
	Caregivers	Intervention/program name:	(motivation to avoid drinking,	Relative change (post): -70.0%
	Age: NR	Start Taking Alcohol Risk	expectancy beliefs, peer	Narrative results: significantly fewer
	Sex: NR	Seriously (STARS) for Families	prevalence,	intervention planning to drink than
	Race/ethnicity:	Programs	influenceability and total risk	control, X211.53, 1 df, P=0.001.
	Education: NR		factors for alcohol use)	Favorable (Yes/No/No effect): Yes
	Employment: NR	Substance(s) focused* alcohol		Statistical significance: Yes
	Income: NR		Total alcohol risk factors score	
	Marital status: NR	Format: both (face-to-face and	added across nine categories	Outcome: Alcohol intentions
	Other: NR	workbook)	for each subject, with total	Measure: plan to drink in future
			alcohol risk factors ranging	Narrative: less intentions to drink in
	Study Population:	Intervention intensity: every	from 0 (least risk) to 9	future, greater motivation to avoid
	Youth	semester nurse consultant or	(greatest).	drinking and less total alcohol risk than
	Age: NR	activities to complete;		control students, Ps < 0.05.
	Grade level(s): 6 th	6 th grade - mailed postcards	Substance(s)* alcohol	
	grade (baseline), end	based on youth risk		
	8 th grade (f/u)		Polysubstance measures? No	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Sex: 46% female; 54%	7 th grade nurse consultant served		Outcome: Alcohol initiation (Table
	male	as booster, weekly activities	Outcome types	1)
	Race/ethnicity: 58%	Number of sessions or modules:	Intentions? Yes	Measure: percentage (proportion)
	Black or African	2 consultations + 10 postcards +	Initiation? Yes	precontemplation;
	American; 34% White;	4 family lessons	Use? Yes	contemplation/preparation;
	8% other	Number of hours per session: 40	SU disorder? No, unless heavy	action/maintenance
	Other: 55% in free	min for face-to-face+ postcards	drinking counts	
	lunch program; 31%	and lessons	Educational outcomes? No	Baseline
	have immediate family		Mental health? No	Int (n=): NR
	member with an	Total hours of intervention:	Morbidity? No	Comp (n=): NR
	alcohol or drug use	NR	Mortality? No	Follow-up (in months): 36 months (12
	associated problem;		Equity (stratified analysis;	months post intervention)
	(42%) had no prior	Additional components (things	focused on one historically	
	alcohol or drug	outside the sessions/modules)	disadvantaged group)? Yes	
	education in last year	Incentive for completing 7 th		Int (n=150):
		grade activity worksheets	Other outcomes? Risk factors	precontemplation: 87.2%
	NOTE: Significant		(influenceability, peer	contemplation: 1.3%
	differences were found	Implementer(s): nurse	prevalence, expectancy beliefs,	action: 11.4%
	between students at	(received 1-day training)	motivation to avoid, total	
	two schools on six of		alcohol risk) Present data by	Comp (n=150):
	the seven demographic	Intervention duration: 24-	year in Table 3	precontemplation: 79.3%
	measures and three of	months (6 th and 7 th grade)		contemplation: 2.0%
	five alcohol use			action: 18.7%
	measures.	Focus of intervention		
		activities:		Absolute change (post only):
	Students in	Both parents/caregivers and		precontemplation: +7.9 pct pts
	neighborhood school	youth: Yes		contemplation: -0.7 pct pts
	sample: more likely	Parents only: No		action: -7.3 pct pts
	female (x212.08,1 df,			
	P=0.0005), African	Parent and child (either in the		Relative change (post):
	American (χ2120.10, 6	same session or not)? Yes		+9.9%
	df, P=0.00001), older	Parent and child in the same		-35.0%
	(t-test 7.39,423.32 df,	session/activity? Yes (family-		-39.0%
	P=0.001), receive free	based)		
	school lunch			Narrative results: fewer intervention
	(χ2111.15, 1 df,			students in more advanced stages of

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Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	P=0.00001), single parent/guardian home (x234.61, 4 df, P=0.00001) and receive no prior alcohol or drug education in past year (x247.19, 1 d.f.,P0.00001) than those in magnet school. Community characteristics: "economically disadvantaged"	Comparison group : Alcohol education booklet 6 th grade: Young People and Alcohol-What the Ads Don 't Tell		 alcohol acquisition (i.e. contemplation-maintenance) than control Favorable (Yes/No/No effect): Yes Statistical significance: No Outcome: Alcohol consumption (Table 1) Initiation outcome? Measure: percentage (proportion) lifetime (ever tried alcohol) Baseline Int (n=): NR Comp (n=): NR Follow-up (in months): 36 months (12 months post intervention) Int (n=150): 54.0% Comp (n=150): 61.7% Absolute change (post): -7.7 pct pts Relative change (post): -12.5% Narrative results: Not significant, but showed fewer intervention students using than control students Favorable (Yes/No/No effect): Yes Statistical significance: No Outcome: Alcohol consumption (Table 1) Measure: percentage (proportion) 7- Day use Baseline Int (n=): NR
				Comp (n=): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Follow-up (in months): 36 months (12
				months post intervention)
				Int (n=150): 10.7%
				Comp (n=150): 12.0%
				Absolute change (post): -1.3 pct pts
				Relative change (post): -10.8%
				Narrative results: Not significant, but
				showed fewer intervention students
				using than control students
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No
				Outcome: Alcohol consumption
				(Table 1)
				Measure: percentage (proportion) 30-
				Day use
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months) 36 months (12
				months post intervention)
				Int (n=150): 11.3%
				Comp (n=150): 17.4%
				Absolute change (post): -6.1 pct pts
				Relative change (post): -35.0 Post
				only
				Narrative results: Not significant, but
				showed fewer intervention students
				using than control students
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No
				Outcome: Alcohol consumption (Table 1)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Measure: percentage (proportion) 30- Day "heavy" use
				Baseline Int (n=): NR Comp (n=): NR Follow-up (in months): 36 months (12 months post intervention) Int (n=150): 4.7% Comp (n=150): 8.7% Absolute change (post): -4.0% pct pts Relative change (post): -45.9% Narrative results: Not significant, but showed fewer intervention students using than control students Favorable (Yes/No/No effect): Yes Statistical significance: No
				Outcome: Length of drinking (Table 1) Measure: percentage (proportion) length of drinking (Do not drink, ≤30 days to 6 months, 6+ months)
				Baseline Int (n=): NR Comp (n=): NR Follow-up (in months): 36 months (12 months post intervention) Int (n=150): Do not drink 88.7 \leq 30 days to 6 months 3.3% 6 months or more 8.0%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Comp (n=150): Do not drink 78.7 ≤30 days to 6 months 6.0% 6 months or more 15.3%
				Absolute change: Do not drink -10.0 pct pts ≤30 days to 6 months -2.7 pct pts 6 months or more -7.3 pct pts Relative change: NR
				Narrative results: fewer intervention students drank alcohol for any length of time (i.e. 30 days to 6 months or more) than control Favorable (Yes/No/No effect): Yes Statistical significance: Approached significance (Ps = 0.06)
				Table II. Scale, mean alcohol use and risk factor measures at 1-year follow-up by school and group. Narrative results: alcohol use overall MANOVA ($F(5,294)=2.82$, $P=0.01$) and univariate test for intentions both significant; intervention students significantly less intentions to drink in the future (m=5.56, SD=2.75) than control (m=6.70, SD=3.77), F(1,298)=8.95, $P=0.003$.
				Alcohol use risk factors significant, F(5,294)= 2.68, P=0.02. Univariate tests - intervention students significantly greater motivation to avoid drinking (m=2.49, SD=1.17) than control (m=3.00, SD=1.79),

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				F(1,298)=8.41, P=0.004, and less total alcohol risk factors (m=7.73, SD=1.83) than control (m=8.26, SD=1.96), F(1,298)=5.78, P=0.01.
				Neighborhood school Outcome: Alcohol intentions (Table 1) Measure: percentage (proportion) plan
				to drink in next 6 months
				Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up (in months): 36 months
				Int (n=100): 4.0% Comp (n=107): 8.4% Absolute change (post): -4.4 pct pts
				Relative change (post): -52.8% Narrative results: Fewer intervention
				students used less alcohol than control for all alcohol measures, but differences not significant. Favorable (Yes/No/No effect): Yes
				Statistical significance: No Outcome: Alcohol initiation (Table
				1) Measure: percentage (proportion)
				precontemplation; contemplation/preparation; action/maintenance
				Baseline Int (n=NR): NR Comp (n=NR): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Follow-up (in months): 36 months (12 months post intervention) Int (n=100):
				precontemplation: 85.0% contemplation: 8.0% action: 7.0%
				Comp (n=150): precontemplation: 82.2% contemplation: 10.3% action: 7.5%
				Absolute change (post): precontemplation: +2.8 pct pts contemplation: -2.3 pct pts action: -0.5 pct pts
				Relative change (post): +3.4% -22.3% -6.7%
				Narrative results: fewer intervention students used less alcohol than control for all alcohol measures, but differences not significant. Favorable (Yes/No/No effect): Yes Statistical significance: No
				Outcome: Alcohol consumption (Table 1) Initiation outcome? Measure: percentage (proportion) lifetime (ever tried alcohol)
				Baseline Int (n=): NR Comp (n=): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Follow-up (in months): 36 months (12
				months post intervention)
				Int $(n=100)$: 38.0%
				Comp (n=107): 44.9% Absolute change (post): -6.9 pct pts
				Relative change (post): -0.9 pct pts
				Narrative results: fewer intervention
				students used less alcohol than control
				for all alcohol measures, but
				differences not significant.
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No
				Outcome: Alcohol consumption
				(Table 1)
				Measure: percentage (proportion) 7-
				Day use
				Baseline
				Int (n=): NR
				Comp (n=): NR
				Follow-up (in months): 36 months (12
				months post intervention)
				Int $(n=100)$: 10.0%
				Comp (n=107): 11.2% Absolute change (post): -1.2 pct pts
				Relative change (post): -1.2 pct pts
				Narrative results: fewer intervention
				students used less alcohol than control
				for all alcohol measures, but
				differences not significant.
				Favorable (Yes/No/No effect): Yes
				Statistical significance: No
				Outcome: Alcohol consumption
				(Table 1)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Measure: percentage (proportion) 30- Day use
				Baseline Int (n=): NR Comp (n=): NR Follow-up (in months): 36 months (12 months post intervention) Int (n=100): 10.0% Comp (n=107): 13.2% Absolute change (post): -3.2 pct pts Relative change (post): -24.2% Narrative results: fewer intervention students used less alcohol than control for all alcohol measures, but differences not significant.10 Favorable (Yes/No/No effect): Yes Statistical significance: No
				Outcome: Alcohol consumption (Table 1) Measure: percentage (proportion) 30- Day "heavy" use
				Baseline Int (n=NR): NR Comp (n=NR): NR Follow-up (in months): 36 months (12 months post intervention) Int (n=100): 6.0% Comp (n=107): 9.3% Absolute change (post): -3.3% Relative change (post): -35.9% Narrative results: fewer intervention students used less alcohol than control

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				for all alcohol measures, but differences not significant.
				Favorable (Yes/No/No effect): Yes Statistical significance: No
				Outcome: Alcohol consumption (Table 1)
				Measure: percentage (proportion)
				Length of drinking (Do not drink, \leq 30
				days to 6 months
				6+ months)
				Baseline
				Int (n=NR): NR
				Comp (n=NR): NR
				Follow-up (in months): 36 months (12
				months post intervention)
				Int (n=100): Do not drink 87.0
				\leq 30 days to 6 months 9.0%
				6 months or more 4.0%
				Comp (n=107):
				Do not drink 83.2
				\leq 30 days to 6 months 11.2%
				6 months or more 5.6%
				Absolute change:
				Do not drink -3.8 pct pts
				≤30 days to 6 months -2.2 pct pts
				6 months or more -1.6 pct pts
				Relative change: NR Narrative results: fewer intervention
				students used less alcohol than control
				for all alcohol measures, but
				differences not significant.
				and chees not significant.

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Favorable (Yes/No/No effect): Yes Statistical significance: No
				Table II. Scale, mean alcohol use and risk factor measures at 1-year follow-up by school and group.
				Overall MANOVA for alcohol use risk factors significant ($F(5,201)=2.18$, P=0.05) and univariate test for total alcohol risk factors; intervention students having less alcohol risk (m=7.90, SD=1.87) than control (m=8.42, SD=1.83), $F(1,205)=4.09$, P=0.04.
				Outcome: Alcohol use (Table 2) Measure: mean (SD) intentions (4-16)
				Baseline Int (n=83): 4.60 Comp (n=93): 5.23 Follow-up (in months): 36 months (12 months post intervention) Int (n=100): 5.45 Comp (n=107): 5.61 Absolute change: + 0.47 pts Relative change: NA Narrative results : mean alcohol use measures lower for intervention students than control, but differences not significant. Favorable (Yes/No/No effect): Yes Statistical significance: No
				Outcome: Alcohol use (Table 2)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Measure: mean (SD) alcohol frequency (0-12)
				Baseline Int (n=83): 0.28 Comp (n=93): 23 Follow-up (in months): 36 months (12 months post intervention) Int (n=83): 0.46 Comp (n=93): 0.44 Absolute change: -0.03 pct pts Relative change: -14.2% Narrative results: mean alcohol use measures lower for intervention students than control, but differences not significant. Favorable (Yes/No/No effect): Yes
				Statistical significance: No Outcome: Alcohol use (Table 2) Measure: mean (SD) alcohol quantity (0-8)
				Baseline Int (n=83): 0.17 Comp (n=93): 0.19 Follow-up (in months): 36 months (12 months post intervention) Int (n=83): 0.39 Comp (n=93): 0.40 Absolute change: +0.01 pct pts Relative change: +8.9%
				Narrative results: mean alcohol use measures lower for intervention students than control, but differences not significant.

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Favorable (Yes/No/No effect): Yes Statistical significance: No
				Outcome: Alcohol use (Table 2)
				Measure: mean (SD) heavy alcohol use (0-8)
				Baseline
				Int (n=83): 0.19 Comp (n=93): 0.09
				Follow-up (in months): 36 months (12
				months post intervention) Int (n=83): 0.16
				Comp $(n=93)$: 0.22
				Absolute change: -0.16 pct pts
				Relative change: -65.5%
				Narrative results: mean alcohol use measures lower for intervention
				students than control, but differences
				not significant.
				Favorable (Yes/No/No effect): Yes Statistical significance: No
				COMBINED
				MANOVAs and MANCOVAs with base-
				line measures used as covariates,
				analyzed with schools collapsed. Found nearly identical results for magnet
				school, with univariate tests showing
				intervention subjects with significantly
				less intentions to drink in future,
				greater motivation to avoid alcohol use
				and less total alcohol risk factors than
				control (Ps=0.05)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Setting: Community	Brief description of	Brief description Mental	Intent-to-treat, loss to f/u families
Wolchik et al. (2002)		interventions and content:	disorder and drug abuse or	included in all analyses
	Urbanicity: Urban	2 intervention arms:	dependence: computer assisted	
Location:		Mother program (MP): focused		Medium effect size (increment to
USA, Arizona, Phoenix	Eligibility:	on improving mother child	of Diagnostic Interview	R^2 =0.13) and small effect size
	Families who	relationship quality and effective	Schedule for Children; criteria	(increment to R^2 =0.06), the power of
Years for Study:	participated in initial	discipline, increasing father's	for diagnosis: 1 or more	test for group differences was above
Total: March 1, 1992 –	intervention (which	access to the child, and reducing	disorders in past year, and 2 or	99% and 97%
March 2000	include divorced	interparental conflict	more of the impairment items	
	families with children		for disorder(s) rated as	Baseline covariate for all measures not
Initial Intervention:	between 9 and 12	Mother plus child program	intermediate or severe	assessed at baseline (e.g., alcohol use)
March 1, 1992 -	years in Maricopa	(MPCP): mother program		= composite of child/mother report of
December 31, 1993	County)	w/children; improving effective	Internalizing problems:	externalizing and internalizing
		coping, reducing negative	standardized and averaged	problems
6-year follow-up: April	Recruitment:	thoughts about divorce stressors,	composite of parents (Child	
1998 - March 2000	Sent letters and	and improving mother-child	Behavior Checklist, 31-item	Intervention #1: MPCP
	telephone calls to	relationship quality	subscale) & adolescents (27-	Outcome: alcohol and cannabis use
Period for Study:	randomly selected		item Child Depression	Measure: self-responded scale, # of
Total: 97 months	divorcees from	Intervention/program name:	Inventory, 28-item revised	times used (1=0 to 7=40) in past year
(March 1992-March 200	computerized court	New Beginnings Program	Children's Manifest Anxiety	
•	records decrees.		Scale) mean of standardized	Baseline
could have been	Supplemental	Substance(s) focused*	scores	Int (n=83): NR
shorter)	recruitment methods	General		Comp (n=76): NR
F/u period: 72 months	(I.e., media, referrals);		Substance(s)*	Follow-up (in months): 72
,	in-home visit	Format: face-to-face group	Alcohol, cannabis, other drugs,	Int (n=73): NR
Study Design:		j	polydrug	Comp $(n=68)$: NR
Individual RCT	Inclusion:	Intervention intensity Number		Absolute change: NR
	(1) Primary residential	of sessions or modules:	Polysubstance measures? YES	Relative change: NR
CG Suitability:	parent = female; (2)	MP: 11 mother group sessions+		Narrative results: NR
Greatest	neither mother nor any		Outcome types	Favorable (Yes/No/No effect): Yes,
Greatest	child in treatment for	MPCP: 11 mother group	Intentions? NO	substance use lower in intervention
Risk of Bias	mental health	sessions+ 2 individual sessions,	Initiation? NO	Statistical significance: No statistically
	problems; (3) mother	11 child group sessions	Use? YES	significant difference by group or group
	not remarried, had no	Number of hours per session:	SU disorder? YES (Drug	baseline effects
-	live-in boyfriend or	1.75 hours per group session for	dependence or abuse)	
Unclear			Educational outcomes? NO	Outcome: Other drug use
Unciedi	plans to remarry during			outcome: Other arug use

Substance Use: Family-based Interventions to Prevent Substance Use Among Youth — Summary Evidence Table

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
c) Blinding - Low	the study; (4) custody		Mental health? YES (mental	Measure: scale, sum of ratings for 13
d) Outcomes - Low	expected to remain	Total hours of intervention:	disorders & internalizing	other drugs (eg, heroin)
e) Selective - High	stable during study;	MP: 19.25 hours + unknown time	problems)	
	(5) family resided	for individual sessions	Morbidity? NO	Baseline
	within 1-hour drive of	MPCP: 38.5 hours + unknown	Mortality? NO	Int (n=83): NR
	program delivery site;	time for individual sessions	Equity? NO	Comp (n=68): NR
	(6) mother & child			Follow-up (in months): 72
	fluent in English; (7)	Additional components (things	Other outcomes?	Int (n=73): NR
	child not mentally	outside the sessions/modules)	Any diagnosed disorder, sexual	Comp (n=68): NR
	handicapped or	NR	partners,	Absolute change: NR
	learning disabled; (8)		externalizing problems	Relative change: NR
	any diagnosed ADHD	Implementer(s) Trained (30	(delinquent behavior,	Narrative results: NR
	child was taking	hours), educated (master's	aggression, and hostility)	Favorable (Yes/No/No effect): Yes,
	medication	degree) clinicians for both		substance use lower in intervention
		intervention programs (9 MPCP	Study has additional	Statistical significance: No statistically
	Exclusion:	13 MP)	information on:	significant difference by group or group
	(1) child scored >17 on		Implementation? Twenty-six	baseline effects
	the Children's	Intervention duration: NR 11	families (11%) assigned to	
	Depression Inventory	group sessions + 2 individual	condition dropped out of their	Outcome: Polydrug use
	(2) endorsed an item	sessions	intervention program.	Measure: Actual mean and adjusted
	about suicidal ideation,			means are presented separately based
	(3) scored >97th		Participation rate not high	on ANCOVAs; total # of different
	percentile on	Focus of intervention		drugs, including alcohol, used in past
	Externalizing Subscale	activities:	Program Leaders received:	year.
	of Child Behavior	Both parents/caregivers and	Detailed manuals, extensive	
	Checklist	youth: Yes	training, and intensive	Baseline
		Parents only: No	supervision; required to score	Int (n=83): NR
	Sample size		more than 89% on content	Comp (n=76): NR
	Baseline 240	Parent and child (either in the	knowledge quizzes prior to	Follow-up (in months): 72
	Int 164 (MPCP = 83,	same session or not)? MP: Yes	each session.	
	MP = 81)	MPCP: Yes		Int (n=73)
	Control = 76	Parent and child in the same	Independent raters scored	Actual Mean: 1.52 (0.25)
		session/activity?	program segment using	Adjusted Mean: 1.45 (0.34)
	6-YR	MP: NR	videotapes of sessions (1=not	
	Follow-up: 91%	MPCP: NR	complete to 3=complete).	Comp (n=68)
	(218/240)		Mean (SD) session completion:	

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Int 150 (MPCP = 73, MP = 77)	Comparison group: Literature control condition- books on post-	mother - 2.86 (0.39) and child- 3.00 (0.02)	Adjusted Mean: 1.72 (0.34)
	Control = 68	divorce adjustment to mothers		Absolute change:
		and children as well as syllabi to	Barriers?	Actual Mean: -0.13
	Loss to f/u: 9%	guide the reading	26 Participants dropped out:	Adjusted Mean: -0.27
	(22/240)		insufficient time (n=8),	Relative change:
			transportation problems (n=5),	Actual Mean: -7.9%
	Characteristics below		dissatisfaction with program	Adjusted Mean: -15.7%
	from Table 1 baseline		(n=6), and other (n=7) (eg,	Narrative results: NR
	data, combined		significant physical problems,	Favorable (Yes/No/No effect): Yes,
	intervention arms		life stressors, unknown)	substance use lower in intervention
	together to calculate			Statistical significance: not significant
	overall intervention		Potential benefits? NR	group interaction ($p = .44$), or group
	group (N=150).		Potential harms? NR	baseline interaction
	Reported 6-yr f/u			
	characteristics data		Evidence gaps?	Outcome: diagnosed drug
	narratively		Sample almost exclusively	dependence or abuse
			middle-class and white;	Measure: proportions (frequencies)
	Study population:		participating mothers better	
	Parents and		educated, had higher incomes,	Baseline
	caregivers (baseline		and had fewer children. Need	Int (n=83): NR
	Intervention groups		to be adapted to ethnically and	Comp (n=76): NR
	only, weighted by		economically diverse samples	Follow-up (in months): 72
	sample size: rounded			Int (n=73): 4.1% (95% CI, 0%-8.6%)
	numbers except for			Comp (n=68): 2.9% (95% CI, 0%-
	age)			6.9%)
	Mother data			Absolute change: 1.2 pct pts
	Age: 37.8 mean			Relative change: +41.4%
	Sex: 100% women			Narrative results: No significant
	Race/ethnicity:			difference for diagnosis of drug abuse
	White, non-Hispanic –			or dependence
	89%			Favorable (Yes/No/No effect): No
	Hispanic – 6%			Statistical significance: No significant
	Black – 1%			difference
	Asian American – 1%			
	Other – 2%			

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Education: 14.5 mean			Outcome: Drug dependence or
	years			abuse symptoms
	Employment NR			Measure: actual and adjusted means of
	Income: \$27195/year			baseline comparison of symptom count
	annual mean			Baseline
	Marital status: 100%			Int (n=83): NR
	divorced			Comp (n=76): NR
	Other			Follow-up (in months): 72
	Sole legal custody:			
	63%			Int (n=73)
	# of children at home:			Actual Mean: 1.47 (0.25)
	2.3			Adjusted Mean: 1.39 (0.40)
	Father data			Comp (n=68)
	Age: 40.0 mean			Actual Mean: 1.66 (0.34)
	Race/ethnicity:			Adjusted Mean: 1.74 (0.41)
	White, non-Hispanic –			
	85%			Absolute change:
	Hispanic – 9%			Actual Mean: -0.19
	Black – 3%			Adjusted Mean: -0.35
	Asian American – 1%			Relative change:
	American Indian – 1%			Actual Mean: -11.4%
	Other – 1%			Adjusted Mean: -20.1%
	Education: 14.0 mean			Narrative results: NR
	years			Favorable (Yes/No/No effect): Yes,
	Employment NR			less symptom count for intervention
	Income: NR			Statistical significance: No significant
	Marital status:			difference, group interaction $p = 0.39$
	Remarried – 13%			
	Other			Outcome: diagnosed mental
	Years since separation			disorders
	- 2.2			Measure: last 12-month prevalence,
	Years since divorce –			proportions (frequencies) and adjusted
	1.0			OR
				Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Study Population:			Int (n=83): NR
	Youth			Comp (n=76): NR
	Age: 10.8 (baseline)			Follow-up (in months): 72
	(16.9 years; range			Int (n=73): 11.0% (95% CI, 3.8%-
	15.1 – 19.1 f/u)			18.2%)
	Grade level(s): NR			Comp (n=68): 23.5%; (95% CI,
	Sex: 48% females,			13.8%-33.2%)
	52% males			Absolute change: -12.5 pct pts
	Race/ethnicity: NR			Relative change: -53%
	Other			Narrative results: adjusted OR, 4.50
	38% received			(95% CI, 1.53-13.70)
	counseling after initial			Favorable (Yes/No/No effect): Yes,
	intervention			reduced 1-yr prevalence
				Statistical significance: Yes, p=.007
	Follow-up data only:			
	80% lived with			Outcome: diagnosed mental health
	mothers; 11% lived			symptoms
	with fathers; 9% lived			Measure: actual means of symptom
	independently			count
	Community			Baseline
	characteristics: NR			Int (n=83): NR
				Comp (n=76): NR
				Follow-up (in months): 72
				Int (n=73)
				Actual Mean: 17.57 (1.07)
				Comp (n=68)
				Actual Mean: 17.28 (1.38)
				Absolute change:
				Actual Mean: +0.29
				Relative change:
				Actual Mean: +1.7%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
	Characteristics	Characteristics		Narrative results: Variables with significant interactions the adjusted means are dependent on level of the covariate; group interaction p-value = .35Favorable (Yes/No/No effect): Yes, stronger for those with higher baseline problems, they had fewer symptoms
				Baseline Int (n=83): NR Comp (n=76): NR Follow-up (in months): 72 Int (n=73): 15.1%; (95% CI, 6.9%- 23.3%) Comp (n=68): 23.5%; (95% CI, 13.8%-33.2%) Absolute change: -8.4 pct pts Relative change: -35.7% Narrative results: adjusted OR 2.83 (95% CI, 1.07-7.81) times higher in control Favorable (Yes/No/No effect): Yes,
				lower odds in intervention Statistical significance: significant group difference, <i>P</i> =.04 Outcome: internalizing problems

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Measure: actual and adjusted means of baseline comparison of symptom count
				Baseline Int (n=83): NR Comp (n=76): NR Follow-up (in months): 72
				Int (n=73) Actual Mean: -0.02 (0.12) Adjusted Mean: -0.06 (0.13)
				Comp (n=68) Actual Mean: 0.04 (0.13) Adjusted Mean: 0.08 (0.13)
				Absolute change: Actual Mean: -0.06 Adjusted Mean: -0.14
				Relative change: Actual Mean: -1.50% Adjusted Mean: -1.75% Narrative results: NR
				Favorable (Yes/No/No effect): No Statistical significance: group interaction p= .38
				Intervention #2: MP Outcome: alcohol use Measure: self-responded scale, # of times used (1=0 to 7=40) in past year
				Baseline Int (n=81): NR Comp (n=76): NR Follow-up (in months): 72

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int (n=77): NR Comp (n=68): NR Absolute change: NR Relative change: NR Narrative results: NR Favorable (Yes/No/No effect): Yes, stronger for those with higher baseline problems Statistical significance: significant group baseline interaction effects (<i>P</i> =.005)
				Outcome: cannabis use Measure: self-responded scale, # of times used (1=0 to 7=40) in past year
				Baseline Int (n=81): NR Comp (n=76): NR Follow-up (in months): 72 Int (n=77): NR Comp (n=68): NR Absolute change: NR Relative change: NR Relative change: NR Rarrative results: NR Favorable (Yes/No/No effect): Yes, stronger for those with higher baseline problems. Statistical significance: significant group baseline interaction effects (<i>P</i> =.02)
				Outcome: Other drug use Measure: scale, sum of ratings for 13 other drugs (eg, heroin)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Baseline
				Int (n=81): NR
				Comp (n=76): NR
				Follow-up (in months): 72
				Int (n=77): NR
				Comp (n=68): NR
				Absolute change: NR
				Relative change: NR
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes, stronger for those with higher baseline problems Statistical significance: significant
				group baseline interaction effects other drug use $(P=.01)$
				Outcome: Polydrug use
				Measure: Actual mean and adjusted
				means are presented separately based on ANCOVAs; total # of different drugs, including alcohol, used in past year.
				De se l'is s
				Baseline
				Int (n=81): NR
				Comp (n=76): NR Follow-up (in months): 72
				Int (n=77)
				Actual Mean: 1.86 (0.28)
				Adjusted Mean: 1.78 (0.42)
				Comp (n=68)
				Actual Mean: 1.65 (0.27)
				Adjusted Mean: 1.74 (0.44)

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Absolute change:
				Actual Mean: 0.21
				Adjusted Mean: 0.04
				Relative change:
				Actual Mean: 12.7%
				Adjusted Mean: 0.04/1.74= 2.3%
				Narrative results: NR
				Favorable (Yes/No/No effect): Yes, for
				those at higher risk from baseline,
				significantly less use than those not at
				high risk
				Statistical significance: significant
				group baseline interaction effects, but
				no significant group interaction p=.90
				Outcome: diagnosed drug
				dependence or abuse
				Measure: proportions (frequencies)
				Baseline
				Int (n=81): NR
				Comp (n=76): NR
				Follow-up (in months): 72
				Int (n=77): 5.3% (95% CI, 0.3%-
				10.3%)
				Comp (n=68): 2.9% (95% CI, 0%-
				6.9%)
				Absolute change: +2.4 pct pts
				Relative change: +82.8%
				Narrative results: NR
				Favorable (Yes/No/No effect): No
				Statistical significance: No significant
				difference
				Outcome: Drug dependence or
				abuse symptom

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Measure: actual and adjusted means of baseline comparison of symptom count
				Baseline Int (n=81): NR Comp (n=76): NR Follow-up (in months): 72
				Int (n=77) Actual Mean: 1.82 (0.43) Adjusted Mean: 1.70 (0.63)
				Comp (n=68) Actual Mean: 1.66 (0.27) Adjusted Mean: 1.80 (0.65)
				Absolute change : Actual Mean: 1.82-1.66= +0.16 Adjusted Mean: 1.70-1.80= -0.10 Relative change: Actual Mean: 0.16/1.66= +9.6%
				Adjusted Mean: -0.10/1.80= -5.6% Narrative results: NR Favorable (Yes/No/No effect): Unclear (adjusted if favorable)
				Statistical significance: group interaction p = .85 Outcome: diagnosed mental
				disorders Measure: last 12-month prevalence, proportions (frequencies) and adjusted OR
				Baseline Int (n=81): NR

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Comp (n=76): NR
				Follow-up (in months): 72
				Int (n=77): 18.4% (95% CI, 9.7%- 27.1%)
				Comp (n=68): 23.5%; (95% CI, 13.8%-33.2%)
				Absolute change: -5.1 pct pts
				Relative change: -21.7%
				Narrative results: adjusted OR, 1.94
				Favorable (Yes/No/No effect): Yes,
				lower in intervention group
				Statistical significance: No significant group difference
				Outcome: diagnosed mental health
				symptoms
				Measure: actual and adjusted means
				of baseline comparison of symptom
				count
				Baseline
				Int (n=81): NR
				Comp (n=76): NR
				Follow-up (in months): 72
				Int (n=77)
				Actual Mean: 18.50 (1.12)
				Comp (n=68)
				Actual Mean: 17.28 (1.38)
				Absolute change:
				Actual Mean: +1.22
				Relative change:
				Actual Mean: +7.1%

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Narrative results: Variables with significant interactions the adjusted means are dependent on level of the covariate; group interaction p-value = .57 Favorable (Yes/No/No effect): Yes, stronger for those with higher baseline
				problems, they had fewer symptoms Statistical significance: <i>P</i> =.005, significant group x baseline interactions symptom count
				Outcome: any diagnosed disorders Measure: proportions (frequencies)
				Baseline Int (n=81): NR Comp (n=76): NR Follow-up (in months): 72
				Int (n=77): 19.7% (95% CI, 10.8%- 28.6%) Comp (n=68): 23.5%;(95% CI, 13.8%-33.2%)
				Absolute change: -3.8 pct pts Relative change: -16.2% Narrative results: NR Favorable (Yes/No/No effect): Yes, rates are lower in intervention Statistical significance: No significant difference
				Outcome: internalizing problems Measure: actual and adjusted means of baseline comparison of symptom count
				Baseline

Study	Population Characteristics	Intervention Characteristics	Outcomes	Results
				Int (n=81): NR
				Comp (n=76): NR
				Follow-up (in months): 72
				Int (n=77)
				Actual Mean: -0.02 (0.11)
				Adjusted Mean: -0.06 (0.11)
				Comp (n=68)
				Actual Mean: 0.04 (0.13)
				Adjusted Mean: 0.09 (0.12)
				Absolute change:
				Actual Mean: -0.06
				Adjusted Mean:-0.15
				Relative change:
				Actual Mean: -1.5%
				Adjusted Mean: -1.7%
				Narrative results: NR
				Favorable (Yes/No/No effect): No
				Statistical significance: group
				interaction $p = .34$
				Comparison of MPCP and MP:
				No significant main or interaction
				effects found for any outcomes; mental
				health outcomes ($p = .13$ to .95) and
				substance use outcomes (p = .16 to .99)