Supplemental Information

SEARCH STRATEGIES

PUBMED

(((“Juvenile Delinquency/rehabilitation”[MeSH Terms] OR (juvenile AND (offender* or delinquency or prison)) OR (“Substance-Related Disorders”[Mesh] NOT (“Substance-Related Disorders/prevention and control”[Mesh] NOT “Substance-Related Disorders”[Mesh])) OR “drug offense” OR “Drug abuse” OR “drug misuse” OR “drug dependence” OR “drug addiction” OR “substance use” OR “substance abuse” OR “substance misuse” OR “substance dependence” OR “substance addiction” OR “prescription abuse” OR “Alcoholism”[Mesh] OR “cannabis use disorder” OR “alcohol use disorder” OR “stimulant use disorder” OR “hallucinogen use disorder” OR “opioid use disorder” OR “inhalant use disorder”) OR ((Alcohol OR “Alcoholic Beverages”[Mesh] OR cannabis OR Marijuana OR “Cannabis”[Mesh] OR “Marijuana Abuse”[Mesh] OR “Marijuana Smoking”[Mesh] OR opioids OR “Narcotics”[Mesh] OR “Analgesics, Opioid”[Mesh] OR kratom OR hallucinogens OR “Psychotropic Drugs”[Mesh] OR inhalants OR toluene OR ((amyl OR butyl OR isobutyl) AND nitrites) OR stimulants OR “Central Nervous System Stimulants”[Mesh] OR “Amphetamines”[Mesh] OR Sedatives OR “Hypnotics and Sedatives”[Mesh] OR Benzodiazepines OR “Benzodiazepines”[Mesh] OR Anthramycin OR Bromazepam OR Clonazepam OR Devazepide OR Diazepam OR Flumazenil OR Flunitrazepam OR Flurazepam OR Fentanyl OR Alprazolam OR Clonidine OR Hashish Clonidine OR Lorazepam OR Nitrazepam OR Oxazepam OR Pirenzepine OR Prazepam OR Temazepam OR Chlordiazepoxide OR Clorazepate Dipotassium OR Estazolam OR Medazepam OR Midazolam OR Triazolam OR opioid* OR opiate* OR Heroin OR opium OR “Morphine Derivatives”[Mesh] OR Codeine OR Hydrocodone OR Oxycodone OR Dihydromorphine OR Ethylmorphine OR Heroin OR Hydromorphone OR Morphine OR Oxymorphone OR Thebaine OR Cocaine OR “Cocaine”[Mesh] OR Methamphetamine* OR “Methamphetamine”[Mesh] OR Benzphetamine OR anabolic steroids OR “Testosterone Congeners”[Mesh] OR antihistamines OR nitrous oxide OR betel nut OR kava OR Ecstasy OR phenylalkylamines OR mescaline OR 2,5-dimethoxy-4-methylamphetamine OR MDMA OR 3,4-methylenedioxymethamphetamine OR indoleamine* OR psilocybin OR psilocin OR dimethyltryptamine OR ergoline* OR lysergic acid diethylamide OR “morning glory seeds” OR “Salvia divinorum” OR jimsonweed OR anxiolytic OR benzodiazepine* OR zolpidem OR zaleplon OR carbamate* OR glutethimide OR meprobamate OR barbiturate* OR secobarbital OR barbiturate* OR glutethimide OR methaqualone OR amphetamine OR dextroamphetamine OR methamphetamine OR gabapentin OR baclofen OR diacetylmorphine OR kratom OR polydrug OR “poly-drug” OR polysubstance OR “poly-substance” OR “injection drug”) AND (addict* OR abus* OR misus* OR disorder* OR mis-use OR dependen*)))

AND

(“Telemedicine/methods”[Mesh] OR “Active aftercare” OR “Adolescent Community Reinforcement Approach” OR “Alcoholics Anonymous” OR “Narcotics Anonymous” OR “12-step” OR “assertive community treatment” OR “assertive continuing care” OR “Behavior Therapy”[Mesh] OR “brief intervention” OR “brief interventions” OR “Brief negotiated interview” OR “brief strategic family therapy” OR “Buprenorphine, Naloxone Drug Combination”[Mesh] OR “Buprenorphine”[Mesh] OR “Cognitive behavioral therapy” OR “Cognitive Therapy”[Mesh] OR “Cognitive-behavioral therapy” OR “Cognitive-behavioral treatment” OR “Combined Modality Therapy”[Mesh] OR “Contingency management” OR “Culturally Informed and Flexible Family-Based Treatment for Adolescents” OR “culturally-based intervention” OR “delinquency-treatment programs” OR “dopaminergic agent” OR “drug counseling” OR “Dual diagnosis therapy” OR “Dual diagnosis treatment” OR “Dual Recovery Therapy” OR “Family Therapy”[Mesh] OR “glutaminergic agent” OR “group therapy” OR “Harm reduction” OR “Interpersonal process groups” OR

"Matrix-Model" OR "medication assisted treatment" OR "Methadone"[Mesh] OR "Motivational Enhancement Therapy" OR "Motivational incentives" OR "motivational interview" OR "motivational interviewing" OR "Motivational Interviewing"[Mesh] OR "Multidimensional Treatment Foster Care" OR "Multisystemic Therapy" OR "mutual help group" OR "Naloxone"[Mesh] OR "Narcotic Antagonists"[Mesh]) OR "Opioid replacement" OR "Opioid substitution" OR "oral THC" OR "Phoenix Academy" OR "Recovery Coach" OR "Recovery High School" OR "Reinforcement-based" OR "Seeking Safety" OR "Self-Help for Alcohol and Other Drug Use and Depression" OR "seven challenges" OR "Skills development groups" OR "Substance Abuse Program" OR "synthetic cannabinoids" OR "synthetic opioid" OR "systemic Therapy" OR "Teen Marijuana Check-Up" OR "Therapy, Computer-Assisted"[Mesh] OR ((family OR psychosocial OR Psychoeducational) and (therapy or therapies or treatment* or intervention* or counseling)) OR (behavior* AND (intervention* OR modification*)) OR A-CRA OR Acamprosate OR Acomplia OR amiodarone OR Buprenorphine OR Bupropion OR Cannabidiol OR CIFFTA OR citalopram OR dexamfetamine OR dexamphetamine OR Disulfiram OR duloxetine OR escitalopram OR fluoxetine OR gabapentin OR lisdexamfetamine OR Lithium OR Long-acting injectable OR meditation OR Methadone OR mindfulness OR Nabiximols OR Naltrexone OR paroxetine OR Peer-based OR "peer support" OR pemoline OR Pharmacological interventions OR prazosin OR pregabalin OR quetiapine OR Rimonabant OR Sativex OR SBIRT OR sertraline OR Topiramate OR varenicline OR venlafaxine OR Vilazodone)

AND

("Randomized Controlled Trial"[pt] OR "Cohort Studies"[Mesh] OR cohort OR "Clinical Trial" [Publication Type] OR longitudinal OR "Placebos"[Mesh] OR placebo* OR "Evaluation Studies" [Publication Type] OR "Comparative Study" [Publication Type] OR ((comparative or Intervention) AND study) OR pretest* OR preintervention OR posttest* OR prepost* OR "pre post" OR "before and after" OR interrupted time* OR time serie* OR ((quasi-experiment* OR quasiexperiment* OR quasi or experimental) and (method or study or trial or design*)) OR "Random Allocation"[Mesh] OR "Double-Blind Method"[Mesh] OR "Single-Blind Method"[Mesh] OR ((clinical OR controlled) and trial*) OR ((singl* or doubl* or trebl* or tripl*) and (blind* or mask*)) OR random*)

AND

(adolescent [MeSH] OR adolescen* OR teen* OR young people OR young person* OR young adult* OR youth* OR girl OR girls OR boy OR boys OR juvenile* OR "Young Adult"[Mesh]))

NOT

((("adult"[mesh] OR "Infant"[Mesh] OR "child"[mesh]) NOT "adolescent"[mesh]) OR neonat* OR infant* OR "addresses"[pt] or "autobiography"[pt] or "bibliography"[pt] or "biography"[pt] or "case reports"[pt] or "comment"[pt] or "congresses"[pt] or "dictionary"[pt] or "directory"[pt] or "festschrift"[pt] or "government publications"[pt] or "historical article"[pt] or "interview"[pt] or "lectures"[pt] or "legal cases"[pt] or "legislation"[pt] or "news"[pt] or "newspaper article"[pt] or "patient education handout"[pt] or "periodical index"[pt] or "comment on" or ("Animals"[Mesh] NOT "Humans"[Mesh]) OR rats[tw] or cow [tw] or cows[tw] or chicken*[tw] or horse[tw] or horses[tw] or mice[tw] or mouse[tw] or bovine[tw] or sheep or ovine or murinae or "animal model")

COCHRANE

1. MeSH descriptor: [Substance-Related Disorders] explode all trees
2. alcohol* or cannabis or marijuana or opioid* or narcotic* or hallucinogen* or psychotropic or stimulant* or opiate* or steroid* or polydrug or polysubstance or drug* or substance* or prescription
3. addict* or abus* or misus* or mis-use or dependen*
4. #2 NEAR #3
5. #1 OR #4
6. treatment or therapy or intervention or counseling
7. #5 AND #6
8. adolescen* or teen* or "young people" or "young person" or "young adult" or "young adults" or youth* or girl or girls or boy or boys or juvenile*
9. #7 and #8

CUMULATIVE INDEX TO NURSING AND ALLIED HEALTH LITERATURE/PSYCINFO

((alcohol* or cannabis or marijuana or opioid* or narcotic* or hallucinogen* or psychotropic or stimulant* or opiate* or steroid* or polydrug or polysubstance or drug* or substance* or prescription) N1 (addict* or abus* or misus* or mis-use or dependen*))

AND

(treatment or intervention or therapy or counseling)

AND

(adolescen* or teen* or "young people" or "young person" or "young adult" or "young adults" or youth* or girl or girls or boy or boys or juvenile*)

AND

("Randomized Controlled Trial" OR "Cohort Studies" OR cohort OR "Clinical Trial" OR longitudinal OR

"Placebos" OR placebo* OR "Evaluation Studies" OR "Comparative Study" OR ((comparative or Intervention) AND study) OR pretest* OR preintervention OR posttest* OR prepost* OR "pre post" OR "before and after" OR interrupted time* OR time serie* OR ((quasi-experiment* OR quasiexperiment* OR quasi or experimental) and (method or study or trial or design*)) OR "Random Allocation" OR "Double-Blind Method" OR "Single-Blind Method" OR ((clinical OR controlled) and trial*) OR ((singl* or doubl* or trebl* or tripl*) and (blind* or mask*)) OR random*)

Limit to journals, adolescent, young adult

EMBASE

See Supplemental Fig 6 for Embase session results.

CT.GOV LAST RUN ON OCTOBER 31, 2019

Substance Use OR Substance Abuse OR Drug Abuse OR drug dependence OR drug addiction OR prescription abuse OR Alcoholism OR cannabis OR alcohol OR stimulant OR hallucinogen OR opioid OR inhalant adolescent OR teen OR young people OR young person OR young adult OR youth OR juvenile

COCHRANE AND EPISTEMONIKOS

(((Alcohol* OR drink*) AND (addict* OR disorder* OR abus* OR misus* OR mis-use OR dependen* OR binge OR heavy OR problematic OR high-risk)) OR pregam*)

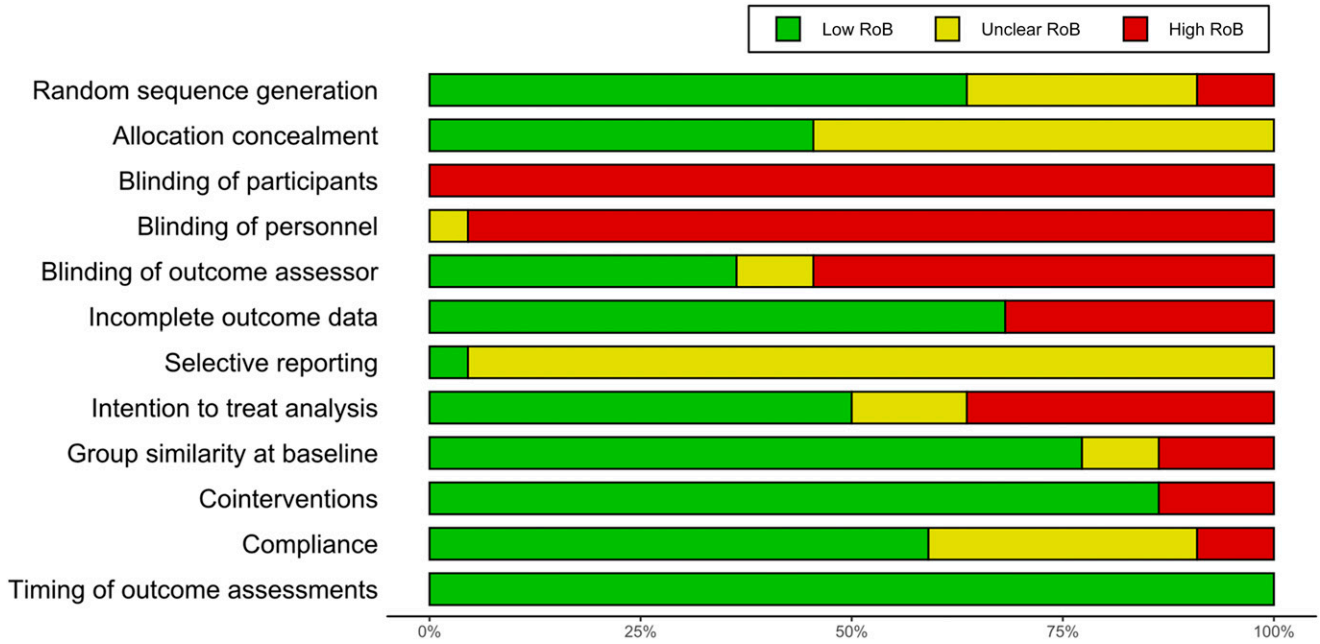
AND

(colleg* OR undergraduate* OR University OR universities)

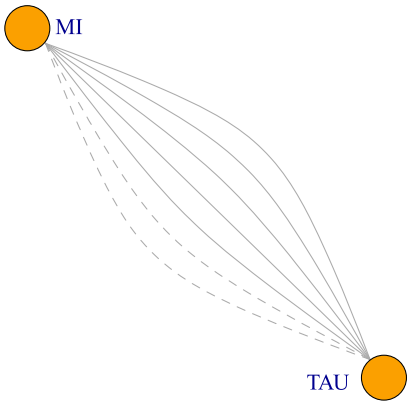
Embase Session Results

No.	Query	Results
#26	#4 AND #24 AND ([article]/lim OR [article in press]/lim) AND ([adolescent]/lim OR [young adult]/lim) AND [humans]/lim	7,289
#25	#4 AND #24	10,436
#24	#5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23	5,843,800
#23	rct	27,180
#22	'placebo'	392,537
#21	'double blind procedure'	137,541
#20	'single blind procedure'	26,775
#19	'multicenter study'	183,577
#18	'observational study'	136,198
#17	'prospective study'	427,900
#16	'retrospective study'	560,671
#15	'longitudinal study'	116,366
#14	'family study'	26,068
#13	'clinical study'	2,904,681
#12	'crossover procedure'	50,774
#11	'randomized controlled trial'	574,097
#10	'case control study'	154,112
#9	'intervention study'	37,999
#8	'comparative study'	782,457
#7	'evaluation study'	195,434
#6	'controlled clinical trial'/exp OR 'controlled clinical trial'	601,074
#5	'cohort analysis'	285,884
#4	#1 AND #2 AND #3	21,732
#3	adolescen* OR teen* OR 'young people' OR 'young person' OR 'young adult' OR 'young adults' OR youth* OR girl OR girls OR boy OR boys OR juvenile*	2,146,031
#2	treatment OR intervention OR therapy OR counseling	10,778,218
#1	(alcohol* OR cannabis OR marijuana OR opioid* OR narcotic* OR hallucinogen* OR psychotropic OR stimulant* OR opiate* OR steroid* OR polydrug OR polysubstance OR drug* OR substance* OR prescription) NEXT/1 (addict* OR abus* OR misus* OR 'mis use' OR dependen*)	282,943

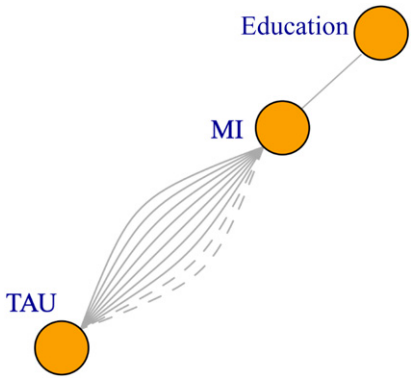
SUPPLEMENTAL FIGURE 6
RoB summary for studies included in the meta-analyses.



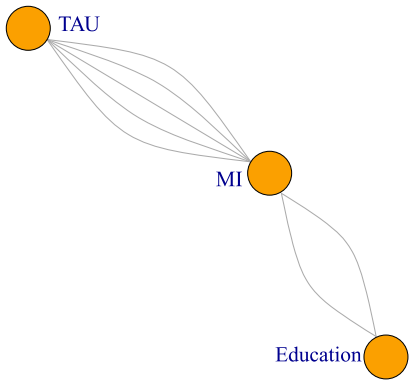
SUPPLEMENTAL FIGURE 7
RoB summary for studies included in the meta-analyses.



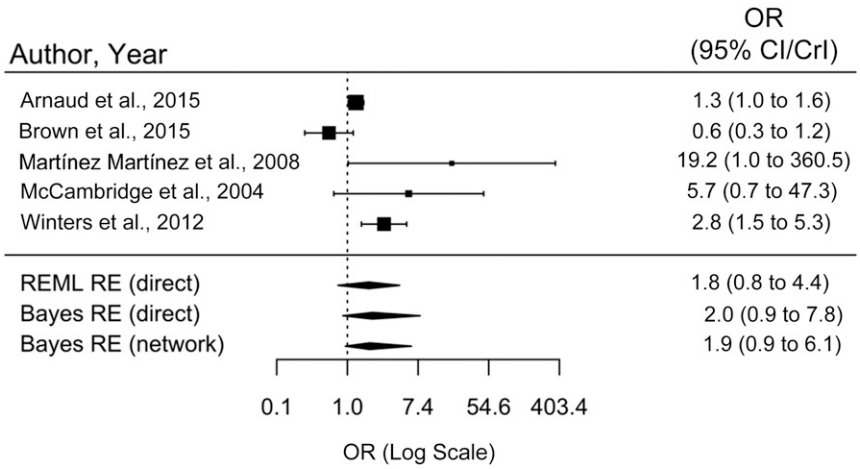
SUPPLEMENTAL FIGURE 8
Evidence graph for studies reporting heavy alcohol use days. The network plot consists of nodes (yellow circles) representing the interventions being compared and edges (connecting lines) representing the available direct comparisons between interventions. Each edge represents a within study comparison. Dotted edges represent comparisons reported as scales and included in primary meta-analyses.



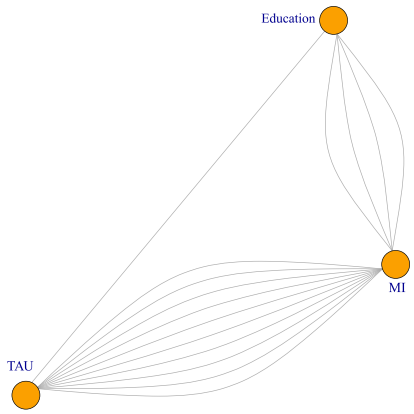
SUPPLEMENTAL FIGURE 9
Complete evidence graph for studies reporting alcohol use days. The network plot consists of nodes (yellow circles) representing the interventions being compared and edges (connecting lines) representing the available direct comparisons between interventions. Each edge represents a within study comparison. Dotted edges represent comparisons reported as scales and included in primary meta-analyses.



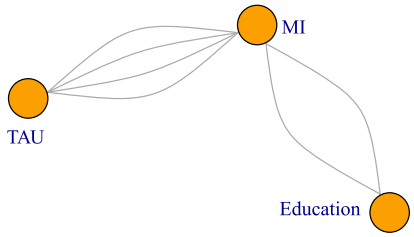
SUPPLEMENTAL FIGURE 10
Evidence graph for studies reporting alcohol abstinence. The network plot consists of nodes (yellow circles) representing the interventions being compared and edges (connecting lines) representing the available direct comparisons between interventions. Each edge represents a within study comparison.



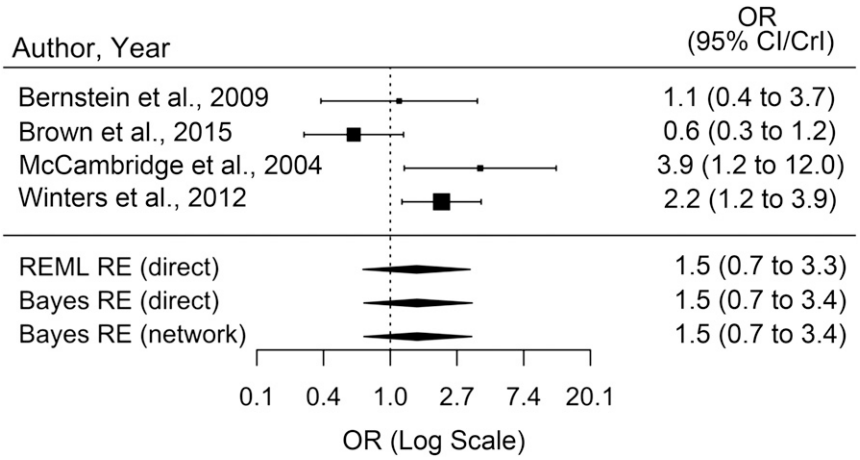
SUPPLEMENTAL FIGURE 11
Alcohol abstinence: MI versus TAU. An OR >1 favors MI. "Direct" is used to indicate direct estimates from pairwise comparisons only. "Network" is used to indicate a combination of direct and indirect evidence as estimated from network meta-analysis. "Bayes" is used to indicate a Bayesian model. CI, confidence interval; RE, random effect; REML, restricted maximum likelihood.



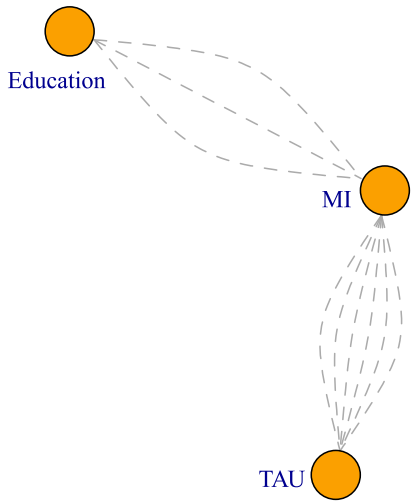
SUPPLEMENTAL FIGURE 12
Evidence graph for brief behavioral intervention studies reporting cannabis use days. The network plot consists of nodes (yellow circles) representing the interventions being compared and edges (connecting lines) representing the available direct comparisons between interventions. Each edge represents a within study comparison. Dotted edges represent comparisons reported as scales.



SUPPLEMENTAL FIGURE 13
Evidence graph for studies reporting cannabis abstinence. The network plot consists of nodes (yellow circles) representing the interventions being compared and edges (connecting lines) representing the available direct comparisons between interventions. Each edge represents a within study comparison. Dotted edges represent comparisons reported as scales.



SUPPLEMENTAL FIGURE 14
Cannabis abstinence: forest plot of OR for MI compared to TAU. OR >1 favors MI. "Direct" is used to indicate direct estimates from pairwise comparisons only. "Network" is used to indicate a combination of direct and indirect evidence as estimated from network meta-analysis. "Bayes" is used to indicate a Bayesian model. CI, confidence interval; RE, random effect; REML, restricted maximum likelihood.



SUPPLEMENTAL FIGURE 15

Evidence graph of studies reporting a SU problem scale. The network plot consists of nodes (yellow circles) representing the interventions being compared and edges (connecting lines) representing the available direct comparisons between interventions. Each edge represents a within study comparison. Dotted edges represent comparisons reported as scales.

SUPPLEMENTAL TABLE 1 Brief Behavioral Interventions: Baseline Data and Interventions

Authors, Year, PMID[a]	*n*	Substances Used	Severity	Eligible Age Range; Mean (SD)	Male, %	Setting	Intervention Delivery	Arm Names	Additional Sources
Arnaud et al,[34] 2015, 2016-03749-004 (PsycInfo)	1449	Alcohol	PU	16–18; 16.9 (0.7)	47	Outpatient, online	Online	TAU: "Control" MI: "WISEteens"	62
Arnaud et al,[35] 2017, 27801991	320	Alcohol	PU	NR–18; 15.7 (1.2)	49	Hospital, ED	Hospital staff	TAU: "Treatment as usual" MI (parent): "Brief MI"	
Bernstein et al.,[36] 2009, 20053238	210	Cannabis	PU	14–21; NR	63	Hospital, ED	Peer educators	TAU: "Assessed control" MI: "Intervention"	
Bernstein et al.,[37] 2010, 20670329	853	Alcohol and cannabis	PU	14–21; NR	53	Hospital, ED	Peer educators	TAU: "Standard assessed control" MI: "Intervention"	
Braciszewski et al,[38] 2018, 132804409 (Embase)	33	Alcohol and cannabis, and other drugs	PU	18–19; 18.9 (0.5)	52	Exiting foster care	Computerized	TAU: "Control" MI: "iHeLP"	
Brown et al,[39] 2015, 26362000	151	Cannabis and alcohol	SUD	13–17; 15.8 (1)	35	Inpatient, psychiatric hospital	Research staff (PhD psychologists, postdoctoral fellows)	TAU: "Treatment as usual" MI: "Motivational interviewing"	
Colby et al,[40] 2018, 29750362	167	Alcohol	PU	17–20; NR	59	Community, outpatient	Research staff (PhD psychologist, postdoctoral fellow, social worker)	TAU: "Attention control" MI: "Brief motivational intervention"	63,64
D'Amico et al,[65] 2008, 18037603	64	Alcohol and cannabis	PU	12–18; 16 (1.8)	48	Primary care	Therapists (no detail)	TAU: "Usual care" MI: "Project CHAT"	
D'Amico et al,[41] 2018, 30138016	294	Cannabis and alcohol	PU	12–18; 15.9 (1.6)	45	Outpatient, primary care clinic	Facilitators	TAU: "Usual care" MI: "CHAT intervention"	
de Gee et al,[42] 2014, 24969735	171	Cannabis	PU	14–21; 17.9 (1.8)	76	Outpatient, community	Community clinicians (prevention workers)	MI: "'Weed check' in Dutch" Education: "Information session"	
Martin and Copeland,[43] 2008, 17869051	40	Cannabis, alcohol, and other drugs	PU	14–19; 16.5 (1.3)	67	Outpatient, community	Therapists (no detail)	TAU: "Delayed treatment condition" MI: "Adolescent cannabis check-up"	
Martínez et al,[44] 2008 2009-05582-007 (PsycInfo)	52	Alcohol	PU	14–18; 16 (1.5)	65	Outpatient, school	Therapists (no detail)	TAU: "Control waitlist" MI: "Experimental"	
McCambridge and Strang,[45] 2004, 14678061	179	Cannabis, alcohol, and other drugs	PU	16–20; 17.6 (1.1)	55	Outpatient, school	Research staff (PhD psychologist)	TAU: "Education-as-usual" MI: "Motivational interviewing"	66
McCambridge et al,[46] 2008, 18778385	326	Cannabis, alcohol, and other drugs	PU	16–19; 18 (1.7)	69	Outpatient, school	Research staff (PhD psychologist, psychology graduates)	MI: "Motivational interviewing" Education: "Drug information and advice-giving"	67,68
McCarty et al,[47] 2019, 30883284	148	Alcohol and cannabis	PU	13–18; NR	20	Outpatient	School providers	TAU: "School-based health clinic visit" MI: "Check yourself feedback and school-based health visit"	
	285		PU		55			TAU: "Assessment only"	

SUPPLEMENTAL TABLE 1 Continued

Authors, Year, PMID[a]	*n*	Substances Used	Severity	Eligible Age Range; Mean (SD)	Male, %	Setting	Intervention Delivery	Arm Names	Additional Sources
Peterson et al,[48] 2006, 16938063		Alcohol, cannabis, amphetamines, cocaine, and heroin		13–19; 17.4 (1.5)		Outpatient, community	Research staff (Master's level therapists)	TAU: "Assessment at follow-up only" MI: "Brief motivational enhancement"	
Spirito et al,[49] 2004, 15343198	152	Alcohol	PU	13–17; 15.6 (1.2)	64	Hospital, ED	Research staff (Bachelor's level therapists and Master's level therapists)	TAU: "Standard care" MI: "Motivational interview"	
Spirito et al,[50] 2017, 29252011	69	Cannabis, alcohol, and other drugs	PU	13–18; 15.8 (1.4)	59	Outpatient, research clinic (juvenile justice truant court)	Research staff (graduate students)	MI (parent): "Motivational enhancement therapy and family check-up" Education: "Psychoeducation"	
Stein et al,[51] 2011, 21531089	189	Cannabis and alcohol	PU	14–19; NR	NR	Residential (juvenile justice)	Research staff (no detail)	TAU: "Relaxation training" MI: "Motivational interviewing"	69–72
Walker et al,[52] 2006, 16822119	97	Cannabis, alcohol, and other drugs	PU	14–19; 15.8 (1.2)	48	Outpatient, school	Research staff (health educators)	TAU: "Waitlist control" MI: "Motivational enhancement therapy"	
Walker et al,[53] 2011, 21688877	310	Cannabis, alcohol, and other drugs	PU	14–19; 16 (1.2)	61	Outpatient, school	Health educators (Bachelor's and Master's level therapists)	TAU: "Delayed feedback control" MI: "Motivational enhancement therapy" Education: "Educational feedback control"	
Winters et al,[54] 2007, 17563146	79	Alcohol and cannabis	SUD	13–17; 15.6 (NR)	62	Outpatient, school	Therapists (no detail)	TAU: "Control" MI: "BI-A" MI: "BI-AP"	
Winters et al,[55] 2012, 22000326	315	Cannabis, alcohol, and other drugs	PU	12–18; NR	NR	Outpatient, school	Therapists (no detail)	TAU: "Assessment only control" MI (parent): "Brief intervention - adolescent plus parent session" MI: "Brief intervention: adolescent only"	73–75

"Parent" indicates that at least 1 component of the intervention included parent involvement and/or was targeted toward parents. BI-A, brief intervention with adolescent; BI-AP, brief intervention with adolescent and parent session; CHAT, Project CHAT - brief primary care intervention; ED, emergency department; iHELP, interactive healthy lifestyle preparation, a computer and mobile phone-based interventions; NR, not reported; PMID, PubMed identifier; PU, problematic use; WISEteens, Web-based brief intervention for substance using teens.
[a] PMID is provided if available, otherwise the database name is presented in parentheses.

SUPPLEMENTAL TABLE 2 Outcomes Available for Meta-analysis by Study

Study, Year, PMID (Other Database)[a]	Heavy Alcohol Use	Use Alcohol	Abstinence Alcohol	Use Cannabis	Abstinence Cannabis	SU Problem Scale	Use AOD	Abstinence AOD	Use Illicit Drugs	Abstinence Illicit Drugs	Use Other Drugs
Arnaud et al,[34] 2015, 2016-03749-004 (PsycInfo)	X	X	X	—	—	—	X	X	—	—	—
Arnaud et al,[35] 2017, 27801991	X	—	—	—	—	X	—	—	—	—	—
Bernstein et al.,[36] 2009, 20053238	—	—	—	X	X	—	—	—	—	—	—
Bernstein et al.,[37] 2010, 20670329	X	X	—	—	—	—	—	—	—	—	—
Braciszewski et al,[38] 2018, 132804409 (Embase)	—	—	—	X	—	—	—	—	—	—	—
Brown et al,[39] 2015, 26362000	—	X	X	X	X	—	X	X	—	—	—
Colby et al,[40] 2018, 29750362	X	X	—	—	—	X	—	—	—	—	—
D'Amico et al,[41] 2018, 30138016	X	X	—	X	—	X	—	—	—	—	—
de Gee et al,[42] 2014, 24969735	—	—	—	X	—	X	—	—	—	—	—
Martin and Copeland,[43] 2008, 17869051	—	—	—	X	—	X	—	—	—	—	—
Martínez et al,[44] 2008 2009-05582-007 (PsycInfo)	—	—	X	—	—	—	—	—	—	—	—
McCambridge and Strang,[45] 2004, 14678061	—	—	X	—	X	—	—	—	—	—	—
McCambridge et al,[46] 2008, 18778385	—	X	X	X	X	X	—	—	—	—	—
McCarty et al,[47] 2019, 30883284	—	X	—	X	—	—	—	—	—	—	—
Peterson et al,[48] 2006, 16938063	—	—	—	X	—	—	—	—	—	—	X
Spirito et al,[49] 2004, 15343198	X	X	—	—	—	—	—	—	—	—	—
Spirito et al,[50] 2017, 29252011	—	—	X	X	X	—	—	—	—	—	—
Stein et al,[51] 2011, 21531089	—	—	—	—	—	X	—	—	—	—	—
Walker et al,[52] 2006, 16822119	—	—	—	X	—	—	—	—	—	—	—
Walker et al,[53] 2011, 21688877	—	—	—	X	—	X	—	—	—	—	—
Winters et al,[54] 2007, 17563146	X	X	—	—	—	X	—	—	X	—	—
Winters et al,[55] 2012, 22000326	—	X	X	X	X	X	—	—	—	—	—

AOD, alcohol and other drugs,; PMID, PubMed identifier; X, outcome reported —, outcome not reported .

[a] Other database is provided if available.

SUPPLEMENTAL TABLE 3 Evidence Profile for Brief Behavioral Interventions

Intervention and Outcome	Comparison	No. Studies (Subjects)	RoB	Consistency	Precision	Directness	Overall SoE	Conclusion Statements
Alcohol outcomes								
Heavy use days	MI versus TAU	7 (1248)	Moderate	Consistent	Imprecise	Direct	Low	MI more effective than TAU
Use days	MI versus TAU	10 (2153)	Moderate	Consistent	Precise	Direct and indirect	Moderate	MI more effective than TAU
Abstinence	MI versus TAU	7 (2482)	Moderate	Consistent	Imprecise	Direct and indirect	Insufficient	None
Cannabis outcomes								
Use days	MI versus TAU	13 (2386)	Moderate	Consistent	Precise	Direct and indirect	Moderate	MI not more effective than TAU
Abstinence	MI versus TAU	6 (1119)	Moderate	Consistent	Imprecise	Direct	Insufficient	None
Substance-related problem scores, multiple SU problem scales	MI versus TAU	9 (1854)	Moderate	Consistent	Imprecise	Direct and indirect	Low	MI more effective than TAU

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