

Drug misuse prevention: targeted interventions

Appendix 2 to Evidence Review 1

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- Review protocol
- Quality appraisal checklists
- Summary of quality of included studies
- List of excluded studies

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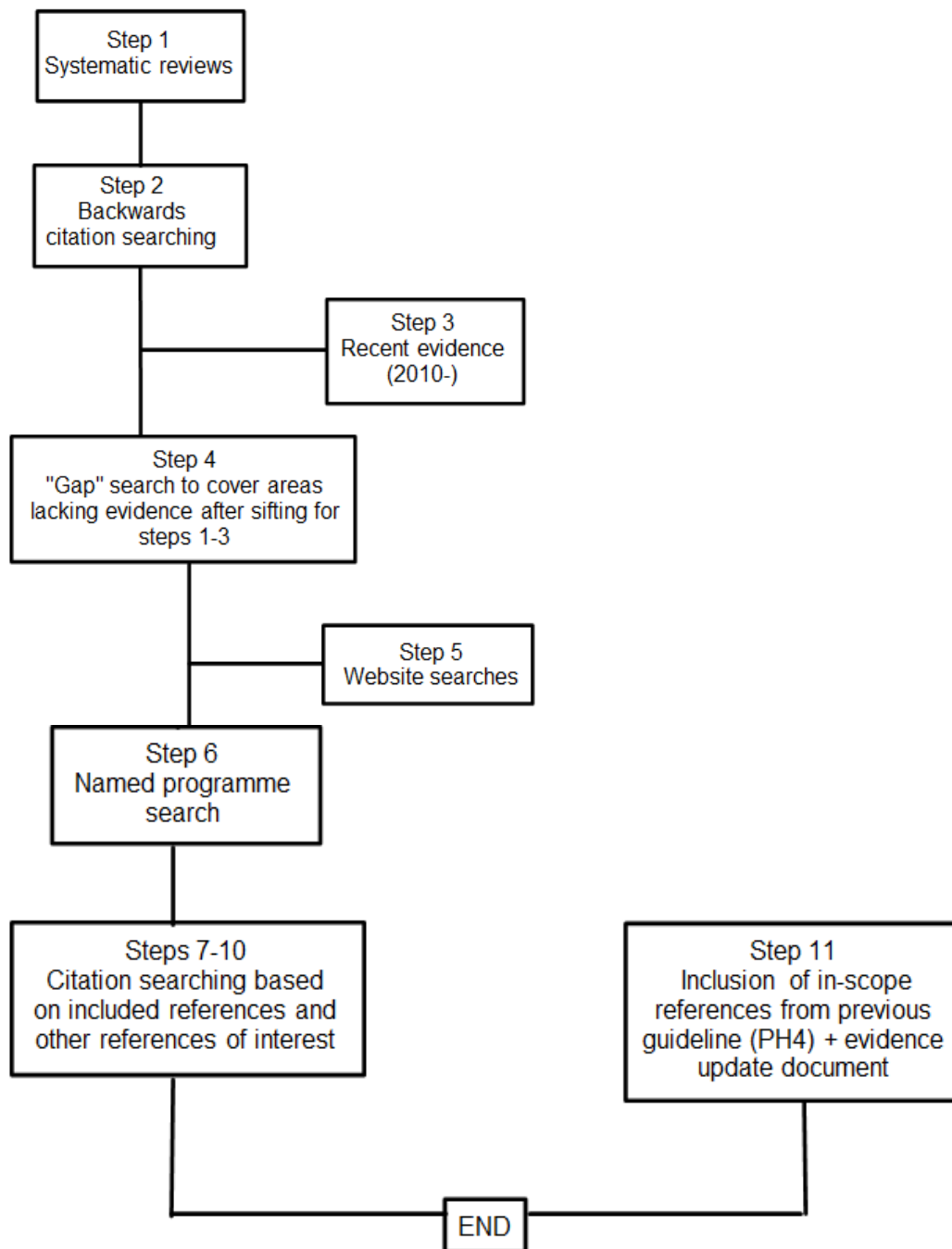
Appendix 2A: Search strategies

2A.1 Summary of search steps and work flow

The search approach adopted for this guideline could be characterised as “non-traditional”. The full rationale for this is outlined in the protocol (see below). In short: the standard approach of conducting a broad PICO-type search across multiple databases would have resulted in an excessive number of references for sifting. A (very basic) test search following the PICO structure but using a limited number of terms retrieved over 36,000 references in Medline alone.

Instead we chose to adopt a more precise approach to finding the evidence. This is consistent with the requirements of NICE’s (2014) [methods manual](#). The same series of search methods (“steps”) was used to identify evidence for both evidence reviews for the present guideline.

Initially we sought a broad range of existing systematic reviews on the theme of drug misuse prevention and then used citation searching to get back to the original primary evidence. Database searching was then used to address the potential “blind spots” which might be expected with this approach. Additional citation and grey literature searching was also carried out.



2A.2 Search step 1: Systematic review search

Note: systematic review and citation-led searching was used in preference to a more traditional database-led approach as the database-led approach would have resulted in the retrieval of an unmanageable number of references. This approach is consistent with the NICE methods manual, and is informed by the experiences outlined by O'Mara-Eves et al¹. Subsequent database search steps were intended to address potential "blind spots" in this approach, notably in the identification of the most recent evidence (which wouldn't have had a chance to be incorporated into a systematic review since publication).

| Database name | Date searched | Database Platform | Database segment or version | No. of results ² |
|---|----------------|-------------------|------------------------------|-----------------------------|
| Cochrane Database of Systematic Reviews (CDSR) | 29th June 2015 | Wiley | Issue 6 of 12, June 2015 | 13 |
| Database of Abstracts of Reviews of Effectiveness (DARE) | 27th July 2015 | Wiley | Issue 2 of 4, April 2015 | 236 |
| HealthEvidence.org | 29th June 2015 | - | - | 129 |
| Campbell library | 29th June 2015 | - | To volume 11, issue 12, 2015 | 9 |
| Database of Promoting Health Effectiveness Reviews (DoPHER) | 30th June 2015 | - | - | 267 |
| NIHR systematic reviews programme website | 30th June 2015 | - | - | 1 |
| Guideline.gov | 30th June 2015 | - | - | 4 |
| Total | | | | 659 |

Database name: CDSR

Strategy

NICE's Information Specialist browsed all published reviews by the Cochrane Drug & Alcohol Group (n = 71) and Public Health Group (n = 10). References to reviews that were possibly relevant to the present review were downloaded for screening (n = 13).

Browsing was used instead of searching as the proposed search strategy (identical to the DARE strategy, below) over-retrieved irrelevant material, bringing back 1894 reviews in CDSR .

Database name: DARE

Strategy

| ID | Search |
|----|--|
| #1 | (Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic*):ti,ab |
| #2 | (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*"):ti,ab |
| #3 | (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or |

¹ O'Mara-Eves et al. (2013) Techniques for identifying cross-disciplinary and 'hard-to-detect' evidence for systematic review. *Research Synthesis Methods* 5 (1) p. 50-59.

² Note that throughout these totals cover both evidence reviews for the present guideline.

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| | |
|-----|--|
| | experiment*):ti,ab |
| #4 | (#1 or #2) near/4 #3 |
| #5 | (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or "anabolic steroid*" or ped or peds or pied or pids or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new* psychoactive" or "novel psychoactive" or NPS or NPSS):ti,ab |
| #6 | MeSH descriptor: [Street Drugs] explode all trees |
| #7 | MeSH descriptor: [Designer Drugs] explode all trees |
| #8 | MeSH descriptor: [Substance-Related Disorders] this term only |
| #9 | MeSH descriptor: [Amphetamine-Related Disorders] this term only |
| #10 | MeSH descriptor: [Cocaine-Related Disorders] this term only |
| #11 | MeSH descriptor: [Inhalant Abuse] this term only |
| #12 | MeSH descriptor: [Marijuana Abuse] this term only |
| #13 | MeSH descriptor: [Opioid-Related Disorders] this term only |
| #14 | MeSH descriptor: [Phencyclidine Abuse] this term only |
| #15 | MeSH descriptor: [Substance Abuse, Intravenous] this term only |
| #16 | MeSH descriptor: [Drug-Seeking Behavior] this term only |
| #17 | MeSH descriptor: [Marijuana Smoking] this term only |
| #18 | MeSH descriptor: [Performance-Enhancing Substances] this term only |
| #19 | {or #6-#18} |
| #20 | MeSH descriptor: [Preventive Health Services] this term only |
| #21 | MeSH descriptor: [Primary Prevention] this term only |
| #22 | MeSH descriptor: [Secondary Prevention] this term only |
| #23 | prevent*:ti,ab |
| #24 | (avoid* or refus*):ti,ab |
| #25 | (abstention or abstinen* or abstain*):ti,ab |
| #26 | {or #20-#25} |
| #27 | #19 and #26 |
| #28 | #4 or #5 or #27 Publication Year from 1995 to 2015 |

Database name: HealthEvidence.org

Strategy

All published reviews filed under drug use/abuse were retrieved for sifting (n = 129). This approach was chosen as it was thought to be more time-efficient than translating the search strategy used in DARE.

Database name: Campbell library

Strategy

All published reviews (n = 113) were browsed. References to relevant reviews were downloaded for sifting. This approach was chosen as it was thought to be more time-efficient than translating the search strategy used in DARE.

Database name: DoPHER

Strategy

- 1 Freetext (All but Authors): Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic*
- 2 Freetext (All but Authors): ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid"
- 3 Freetext (All but Authors): use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*
- 4 1 OR 2
- 5 3 AND 4
- 6 Freetext (All but Authors): Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or pids or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS

| | |
|----|----------------------------|
| 7 | 5 OR 6 |
| 9 | Freetext (Year): 1995-2015 |
| 10 | 7 AND 9 |

Database name: NIHR systematic reviews programme website

| Strategy |
|---|
| Browsed all systematic review projects (n = 158) & public health research evidence synthesis projects (n = 21). One additional (i.e. non-Cochrane) systematic review found. |

Database name: guideline.gov

| Strategy |
|---|
| Note: Difficult to search effectively due to basic search function (for example, one can't search within the titles of guidelines; use proximity or go over a certain number of words in the search box). We carried out a limited number of searches for high specificity keywords (below) |
| "drug use" AND prevent* - 104 results "drug misuse" AND prevent* - 14 results "drug abuse" AND prevent* - 33 results "substance use" AND prevent* - 79 results "substance misuse" AND prevent* - 20 results "substance abuse" AND prevent* - 76 results cannab* or illicit or "illegal" or psychoactive or polydrug or "poly drug" or "street drug*" - 77 results |
| 4 results input into Endnote after sifting on-screen. |

2A.3 Search step 2: Backwards citation searches

109³ 'seed' references (topic-relevant reviews identified during step 1) were searched for by title in Web of Science (WoS).

If a seed reference was available in WoS then any backwards citations which could be downloaded from Web of Science's Core Collection were imported into Endnote.

Citation searching was carried out between the 10th and 13th July 2015.

In total 3,220 references were imported into Endnote at this stage.

2A.4 Search step 3: Recent evidence

Search step 3 was intended to address the potential "blind spot" of steps 1 and 2 in identifying the most recent evidence. As such it only covers evidence published from 2010 onwards.

For steps 3 and 4 the search was run in a way that specified that the retrieved results must have at least one keyword for either drug misuse or prevention in the title, or applied as a major subject headings. This decision was made in order to maintain reasonable precision in the searches, with the recognition that there may be some impact on search sensitivity. Running the same search without this restriction would have reduced the precision and produced an unmanageable number of results to sift at this stage (around 11,000 references from Embase alone).

³ If a full list of seed references is required for any of the citation searching steps then please contact NICE.

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| Database name | Date searched | Database Platform | Database segment or version | No. of results |
|------------------------------|---|-------------------|-----------------------------|--|
| Medline & Medline in-process | 7th July 2015. Due to a problem with Medline in-process at the time of the original searches an additional 26 records that were "misfiled" (i.e. not retrievable) on 7th July were subsequently added on 6th November 2015. The date for updating should still be considered as 7th July. | Ovid | 1946- | 4715 + 26 additional 'misfiled' Medline in-process records |
| Embase | 7th July 2015 | Ovid | 1974 – July 06 2015 | 2998 |
| PsychInfo | 8th July 2015 | Ovid | 2002 to June Week 5 2015 | 3901 |
| Social Policy & Practice | 8th July 2015 | Ovid | 04/2015 | 255 |
| CENTRAL | 8th July 2015 | Wiley | 6/12 June 2015 | 382 |
| HTA | 8th July 2015 | Wiley | 2/4 April 2015 | 5 |
| TRoPHI | 8th July 2015 | - | - | 14 |
| Social Care Online | 8th July 2015 | - | - | 88 |
| Total | | | | 12384 |

Database name: Medline & Medline In-Process

| Strategy |
|--|
| 1 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*).ti. |
| 2 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti. |
| 3 *street drugs/ |
| 4 *designer drugs/ |
| 5 *Substance-Related Disorders/pc |
| 6 *Amphetamine-Related Disorders/pc |
| 7 *Cocaine-Related Disorders/pc |
| 8 *Inhalant Abuse/pc |
| 9 *Marijuana Abuse/pc |
| 10 *Opioid-Related Disorders/pc |
| 11 *Phencyclidine Abuse/pc |
| 12 *Substance Abuse, Intravenous/pc |
| 13 *Drug-Seeking Behavior/ |
| 14 *Marijuana Smoking/pc |
| 15 *Performance-Enhancing Substances/ |
| 16 or/1-15 |
| 17 Preventive Health Services/ |
| 18 Primary Prevention/ |
| 19 Secondary Prevention/ |
| 20 prevent*.ti,ab. |
| 21 (avoid* or refus*).ti,ab. |
| 22 (abstention or abstinen* or abstain*).ti,ab. |
| 23 or/17-22 |
| 24 16 and 23 |
| 25 24 |
| 26 limit 25 to (english language and yr="2010 -Current") |
| 27 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*).ti,ab. |
| 28 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab. |
| 29 street drugs/ |
| 30 designer drugs/ |
| 31 Substance-Related Disorders/pc |
| 32 Amphetamine-Related Disorders/pc |
| 33 Cocaine-Related Disorders/pc |
| 34 Inhalant Abuse/pc |
| 35 Marijuana Abuse/pc |
| 36 Opioid-Related Disorders/pc |
| 37 Phencyclidine Abuse/pc |
| 38 Substance Abuse, Intravenous/pc |
| 39 Drug-Seeking Behavior/ |
| 40 Marijuana Smoking/pc |
| 41 Performance-Enhancing Substances/ |
| 42 or/27-41 |
| 43 *Preventive Health Services/ |
| 44 *Primary Prevention/ |
| 45 *Secondary Prevention/ |
| 46 prevent*.ti. |
| 47 (avoid* or refus*).ti. |
| 48 (abstention or abstinen* or abstain*).ti. |

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49 or/43-48
 50 42 and 49
 51 50
 52 limit 51 to (english language and yr="2010 -Current")
 53 26 or 52
 54 53 not (animals/ not (animals/ and humans/))
 55 (hiv adj prevent*).tw.
 56 54 not 55
 57 hepatitis.ti.
 58 56 not 57
 59 (rat or rats or mouse or mice).ti.
 60 58 not 59

Database name: Embase

Strategy

1 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*).ti.
 2 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti.
 3 *street drug/
 4 *designer drug/
 5 *illicit drug/
 6 or/1-5
 7 prevention/ or prevention study/
 8 Primary Prevention/
 9 Secondary Prevention/
 10 prevent*.ti,ab.
 11 avoid*.mp. or refus*.ti,ab. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
 12 (abstention or abstinen* or abstain*).ti,ab.
 13 or/7-12
 14 6 and 13
 15 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*).ti,ab.
 16 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab.
 17 street drug/
 18 designer drug/
 19 illicit drug/
 20 or/15-19
 21 *prevention/ or *prevention study/
 22 *Primary Prevention/
 23 *Secondary Prevention/
 24 prevent*.ti.
 25 (avoid* or refus*).ti.
 26 (abstention or abstinen* or abstain*).ti.
 27 or/21-26
 28 20 and 27
 29 exp *drug dependence/pc [Prevention]
 30 *analgesic agent abuse/pc
 31 *doping/pc
 32 *inhalant abuse/pc
 33 *intravenous drug abuse/pc
 34 exp *"cannabis use"/pc
 35 *"substance use"/pc

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36 *cannabis smoking/pc
37 *drug abuse/pc [Prevention]
38 or/29-37
39 14 or 28 or 38
40 39
41 limit 40 to (english language and yr="2010 -Current")
42 nonhuman/ not (human/ and nonhuman/
43 41 not 42
44 43 not (rat or rats or mouse or mice).ti.
45 44 not hepatitis.ti.
46 45 not (hiv adj prevent*).tw.
47 limit 46 to (conference abstract or conference paper or conference proceeding or "conference review" or editorial or note)
48 46 not 47
49 limit 48 to embase

Database name: PsychInfo

Strategy

1 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*).ti.
2 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti.
3 or/1-2
4 prevent*.ti,ab.
5 (avoid* or refus*).ti,ab.
6 (abstention or abstinen* or abstain*).ti,ab.
7 or/4-6
8 3 and 7
9 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*).ti,ab.
10 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab.
11 or/9-10
12 prevent*.ti.
13 (avoid* or refus*).ti.
14 (abstention or abstinen* or abstain*).ti.
15 or/12-14
16 11 and 15
17 exp *Drug Abuse Prevention/
18 8 or 16 or 17
19 (hiv adj prevent*).tw.
20 18 not 19
21 hepatitis.ti.
22 20 not 21
23 (rat or rats or mouse or mice).ti.
24 22 not 23
25 limit 24 to (english language and yr="2010 -Current")
26 exp animals/
27 26
28 limit 27 to human
29 25 not (26 not 28)

Database name: Social Policy & Practice

Strategy

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1 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti,sh.
2 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,sh.
3 or/1-2
4 prevent*.ti,ab,sh.
5 (avoid* or refus*).ti,ab,sh.
6 (abstention or abstinen* or abstain*).ti,ab,sh.
7 or/4-6
8 3 and 7
9 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti,ab,sh.
10 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab,sh.
11 or/9-10
12 prevent*.ti,sh.
13 (avoid* or refus*).ti,sh.
14 (abstention or abstinen* or abstain*).ti,sh.
15 or/12-14
16 11 and 15
17 8 or 16
18 17
19 limit 18 to yr="2010 -Current"
20 19 not (hepatitis.ti. or (hiv adj prevent*).tw.)

Database name: CENTRAL/HTA

| Strategy | |
|----------|--|
| ID | Search |
| #1 | ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) near/4 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*):ti |
| #2 | (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "butyl nitrite" or "new* psychoactive" or "novel psychoactive" or NPS or NPSS):ti |
| #3 | [mh ^"street drugs" [mj]] |
| #4 | [mh ^"designer drugs" [mj]] |
| #5 | [mh ^"substance-related disorders" [mj]/PC] |
| #6 | [mh ^"amphetamine-related disorders" [mj]/PC] |
| #7 | [mh ^"cocaine-related disorders" [mj]/PC] |
| #8 | [mh ^"Inhalant Abuse" [mj]/PC] |
| #9 | [mh ^"marijuana Abuse" [mj]/PC] |
| #10 | [mh ^"Opioid-Related Disorders" [mj]/PC] |
| #11 | [mh ^"Phencyclidine Abuse" [mj]/PC] |
| #12 | [mh ^"Substance Abuse, Intravenous" [mj]/PC] |
| #13 | [mh ^"Drug-Seeking Behavior" [mj]] |
| #14 | [mh ^"Marijuana Smoking" [mj]/PC] |
| #15 | [mh ^"Performance-Enhancing Substances" [mj]] |
| #16 | {or #1-#15} |
| #17 | MeSH descriptor: [Preventive Health Services] this term only |
| #18 | MeSH descriptor: [Primary Prevention] this term only |
| #19 | MeSH descriptor: [Secondary Prevention] this term only |

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| | |
|-----|--|
| #20 | prevent*.ti,ab |
| #21 | (avoid* or refus*) .ti,ab |
| #22 | (abstention or abstinen* or abstain*) .ti,ab |
| #23 | {or #17-#22} |
| #24 | #16 and #23 |
| #25 | ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*") near/4 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)):ti,ab |
| #26 | (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedellic* or pcp or phencyclidine or ped or peds or pied or pids or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new* psychoactive" or "novel psychoactive" or NPS or NPSS):ti,ab |
| #27 | MeSH descriptor: [Street Drugs] this term only |
| #28 | MeSH descriptor: [Designer Drugs] this term only |
| #29 | MeSH descriptor: [Substance-Related Disorders] this term only and with qualifier(s): [Prevention & control - PC] |
| #30 | MeSH descriptor: [Amphetamine-Related Disorders] this term only and with qualifier(s): [Prevention & control - PC] |
| #31 | MeSH descriptor: [Cocaine-Related Disorders] this term only and with qualifier(s): [Prevention & control - PC] |
| #32 | MeSH descriptor: [Inhalant Abuse] this term only and with qualifier(s): [Prevention & control - PC] |
| #33 | MeSH descriptor: [Marijuana Abuse] this term only and with qualifier(s): [Prevention & control - PC] |
| #34 | MeSH descriptor: [Opioid-Related Disorders] this term only and with qualifier(s): [Prevention & control - PC] |
| #35 | MeSH descriptor: [Phencyclidine Abuse] this term only and with qualifier(s): [Prevention & control - PC] |
| #36 | MeSH descriptor: [Substance Abuse, Intravenous] this term only and with qualifier(s): [Prevention & control - PC] |
| #37 | MeSH descriptor: [Drug-Seeking Behavior] this term only |
| #38 | MeSH descriptor: [Marijuana Smoking] this term only and with qualifier(s): [Prevention & control - PC] |
| #39 | MeSH descriptor: [Performance-Enhancing Substances] this term only |
| #40 | {or #25-#39} |
| #41 | [mh ^"preventive health services" [mj]] |
| #42 | [mh ^"primary prevention" [mj]] |
| #43 | [mh ^"secondary prevention" [mj]] |
| #44 | prevent*.ti |
| #45 | (avoid* or refus*) .ti |
| #46 | (abstention or abstinen* or abstain*) .ti |
| #47 | {or #41-#46} |
| #48 | #47 and #40 |
| #49 | #24 or #48 Publication Year from 2010 |
| #50 | hepatitis:ti |
| #51 | HIV next prevent*.ti,ab |
| #52 | prevent* next HIV:ti,ab |
| #53 | #49 not (#50 or #51 or #52) |

Database name: TRoPHI

| Strategy | |
|----------|---|
| Search # | Search |
| 3 | Fretext: ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) AND (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)) |
| 5 | Fretext: (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or |

Drug misuse prevention: Appendix 2 to Evidence Review 1
Search strategies

| | |
|----|--|
| | mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcpc or phencyclidine or ped or peds or pied or pieds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS) |
| 6 | Focus of the report: drugs |
| 7 | 3 OR 5 OR 6 |
| 11 | Freetext: prevent* |
| 12 | Freetext: avoid* |
| 14 | Freetext: refus* |
| 16 | Freetext: abstention |
| 17 | Freetext: abstinen* |
| 19 | Freetext: abstain* |
| 20 | 11 OR 12 OR 14 OR 16 OR 17 OR 19 |
| 21 | 7 AND 20 |
| 26 | Freetext: 2010 |
| 28 | Freetext: 2011 |
| 30 | Freetext: 2012 |
| 32 | Freetext: 2013 |
| 34 | Freetext: 2014 |
| 36 | Freetext: 2015 |
| 37 | 26 OR 28 OR 30 OR 32 OR 34 OR 36 |
| 38 | 21 AND 37 |

Database name: Social Care Online

Strategy

Note - search function is quite constrained - no proximity option, crashes for compound searches within individual lines. Hence two separate, abbreviated translations of the Medline search were used.

Search 1

TITLE: prevent* OR avoid* or refus* OR abstention or abstinen* or abstain*

AND

ALL FIELDS: Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*" or Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcpc or phencyclidine or ped or peds or pied or pieds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS

AND

PUBLICATION YEAR: 2010 - 2015

Search 2

ALL FIELDS: prevent* OR avoid* or refus* OR abstention or abstinen* or abstain*

| |
|--|
| <p>AND</p> <p>TITLE: Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*" or Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS</p> <p>AND</p> <p>PUBLICATION YEAR: 2010 - 2015</p> |
|--|

2A.5 Search step 4: Top-up/gap search

Following sifting of results from steps 1 to 3 it was decided that this round of searching should focus on identifying potential gaps in the evidence for review 2 ("How acceptable are interventions that people currently receive?" and "What interventions and support do people feel might be more effective?"). Retrieved references were still considered for both review 1 and review 2.

| Database name | Date searched | Database Platform | Database segment or version | No. of results |
|------------------------------|------------------|-------------------|-----------------------------|--|
| Medline & Medline in-process | 20th August 2015 | Ovid | 1946 - date | 1985 |
| Embase | 20th August 2015 | Ovid | 1974 - 2015 August 19th | 1943 |
| PsychInfo | 20th August 2015 | Ovid | 1987 - August wk 2 2015 | 2525 |
| Social Policy & Practice | 20th August 2015 | Ovid | 07/2015 | 303 |
| CENTRAL | 21st August 2015 | Wiley | 7/12 July 2015 | 276 |
| HTA | 20th August 2015 | Wiley | 3/4 July 2015 | - |
| TRoPHI | 20th August 2015 | - | - | n/a – database crashed on date of searches |
| Social Care Online | 21st August 2015 | - | - | 60 + 88 |
| Total | | | | 7180 |

Database name: Medline & Medline in-process (reformulated version)

| Strategy |
|---|
| <p>1 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti,ab.</p> <p>2 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab.</p> <p>3 street drugs/ 4 designer drugs/ 5 Substance-Related Disorders/pc</p> |

Drug misuse prevention: Appendix 2 to Evidence Review 1
Search strategies

6 Amphetamine-Related Disorders/pc
7 Cocaine-Related Disorders/pc
8 Inhalant Abuse/pc
9 Marijuana Abuse/pc
10 Opioid-Related Disorders/pc
11 Phencyclidine Abuse/pc
12 Substance Abuse, Intravenous/pc
13 Drug-Seeking Behavior/
14 Marijuana Smoking/pc
15 Performance-Enhancing Substances/
16 or/1-15
17 *Preventive Health Services/
18 *Primary Prevention/
19 *Secondary Prevention/
20 prevent*.ti.
21 (avoid* or refus*).ti.
22 (abstention or abstinen* or abstain*).ti.
23 or/17-22
24 16 and 23
25 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-
active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or
inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid*
or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or
problem* or taking or take* or experiment*).ti.
26 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or
amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or
methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or
"performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or
nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti.
27 *street drugs/
28 *designer drugs/
29 *Substance-Related Disorders/pc
30 *Amphetamine-Related Disorders/pc
31 *Cocaine-Related Disorders/pc
32 *Inhalant Abuse/pc
33 *Marijuana Abuse/pc
34 *Opioid-Related Disorders/pc
35 *Phencyclidine Abuse/pc
36 *Substance Abuse, Intravenous/pc
37 *Drug-Seeking Behavior/
38 *Marijuana Smoking/pc
39 *Performance-Enhancing Substances/
40 or/25-39
41 Preventive Health Services/
42 Primary Prevention/
43 Secondary Prevention/
44 prevent*.ti,ab.
45 (avoid* or refus*).ti,ab.
46 (abstention or abstinen* or abstain*).ti,ab.
47 or/41-46
48 40 and 47
49 24 or 48
50 Qualitative Research/
51 Interview.pt.
52 Questionnaires/
53 Narration/
54 data collection/ or focus groups/
55 (qualitative* or interview* or "focus group*" or questionnaire* or narrative* or narration* or
survey*).ti,ab.
56 (ethno* or emic or etic or realist or phenomenolog* or "grounded theory" or "constant compar*" or
(thematic* adj4 analys*) or "theoretical sampl*" or "purposive sampl*).ti,ab.
57 (metasynthes* or "meta-synthes*" or "metasummar*" or "meta-summar*" or metastud* or "meta-
stud*" or metathem* or "meta-them*").ti,ab.
58 or/50-57
59 accept*.ti,ab.
60 (percep* or perceived).ti,ab.
61 opinion*.ti,ab.

Drug misuse prevention: Appendix 2 to Evidence Review 1

Search strategies

62 attitude*.ti,ab.
63 Attitude/
64 resist*.ti,ab.
65 barrier*.ti,ab.
66 communication barriers/
67 facilitat*.ti,ab.
68 receptiv*.ti,ab.
69 complian*.ti,ab.
70 comply.ti,ab.
71 concord*.ti,ab.
72 (experience* or (research adj3 participat*) or "mixed method*" or (integrated adj (approach* or method*))) .ti,ab.
73 or/59-72
74 49 and (58 or 73)
75 (hiv adj prevent*).ti,ab.
76 (hepatitis or coronary or heart or renal or kidney or epilep*).ti.
77 animals/
78 (rat or rats or mouse or mice).ti.
79 or/75-78
80 74 not 79
81 limit 80 to english language
82 limit 81 to (comment or congresses or editorial or in vitro)
83 81 not 82
84 83
85 limit 84 to yr="1995 - 2009"
86 (program* or intervention* or approach* or campaign* or project* or curricul* or service* or policy or policies).ti,ab.
87 intervention studies/
88 86 or 87
89 85 and 88

Database name: Embase

| Strategy | |
|----------|---|
| 1 | ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti. |
| 2 | (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS).ti. |
| 3 | *street drug/ |
| 4 | *designer drug/ |
| 5 | *illicit drug/ |
| 6 | or/1-5 |
| 7 | prevention/ or prevention study/ |
| 8 | Primary Prevention/ |
| 9 | Secondary Prevention/ |
| 10 | prevent*.ti,ab. |
| 11 | (avoid* or refus*).ti,ab. |
| 12 | (abstention or abstinen* or abstain*).ti,ab. |
| 13 | or/7-12 |
| 14 | 6 and 13 |
| 15 | ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti,ab. |
| 16 | (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab. |

Drug misuse prevention: Appendix 2 to Evidence Review 1

Search strategies

17 street drug/
18 designer drug/
19 illicit drug/
20 or/15-19
21 *prevention/ or *prevention study/
22 *Primary Prevention/
23 *Secondary Prevention/
24 prevent*.ti.
25 (avoid* or refus*).ti.
26 (abstention or abstinen* or abstain*).ti.
27 or/21-26
28 20 and 27
29 exp *drug dependence/pc [Prevention]
30 *analgesic agent abuse/pc
31 *doping/pc
32 *inhalant abuse/pc
33 *intravenous drug abuse/pc
34 exp *"cannabis use"/pc
35 *"substance use"/pc
36 *cannabis smoking/pc
37 *drug abuse/pc [Prevention]
38 or/29-37
39 14 or 28 or 38
40 39
41 limit 40 to (english language and yr="1995 - 2009")
42 nonhuman/
43 41 not 42
44 43 not (rat or rats or mouse or mice).ti.
45 44 not (hepatitis or coronary or heart or renal or kidney or epilep*).ti.
46 45 not (hiv adj prevent*).tw.
47 limit 46 to (conference abstract or conference paper or conference proceeding or "conference review" or editorial or note)
48 46 not 47
49 limit 48 to embase
50 accept*.ti,ab.
51 (percep* or perceived).ti,ab.
52 opinion*.ti,ab.
53 attitude*.ti,ab.
54 attitude/
55 resist*.ti,ab.
56 barrier*.ti,ab.
57 facilitat*.ti,ab.
58 receptiv*.ti,ab.
59 complian*.ti,ab.
60 comply.ti,ab.
61 concord*.ti,ab.
62 (experience* or (research adj3 participat*) or "mixed method*" or (integrated adj (approach* or method*))) .ti,ab.
63 or/50-62
64 (qualitative* or interview* or "focus group*" or questionnaire* or narrative* or narration* or survey*).ti,ab.
65 (ethno* or emic or etic or realist or phenomenolog* or "grounded theory" or "constant compar*" or (thematic* adj4 analys*) or "theoretical sampl*" or "purposive sampl*").ti,ab.
66 (metasynthes* or "meta-synthes*" or "metasummar*" or "meta-summar*" or metastud* or "meta-stud*" or metathem* or "meta-them*").ti,ab.
67 qualitative analysis/ or qualitative research/
68 exp interview/
69 exp questionnaire/
70 ethnography/
71 thematic analysis/
72 or/64-71
73 48 and (63 or 72)
74 (program* or intervention* or approach* or campaign* or project* or curricul* or service* or policy or policies).ti,ab.
75 intervention study/
76 74 or 75
77 73 and 76

Database name: PsychInfo

Strategy

- 1 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti.
- 2 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti.
- 3 or/1-2
- 4 prevent*.ti,ab.
- 5 (avoid* or refus*).ti,ab.
- 6 (abstention or abstinen* or abstain*).ti,ab.
- 7 or/4-6
- 8 3 and 7
- 9 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti,ab.
- 10 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab.
- 11 or/9-10
- 12 prevent*.ti.
- 13 (avoid* or refus*).ti.
- 14 (abstention or abstinen* or abstain*).ti.
- 15 or/12-14
- 16 11 and 15
- 17 exp *Drug Abuse Prevention/
- 18 8 or 16 or 17
- 19 (hiv adj prevent*).tw.
- 20 18 not 19
- 21 (hepatitis or coronary or heart or renal or kidney or epilep*).ti.
- 22 20 not 21
- 23 (rat or rats or mouse or mice).ti.
- 24 22 not 23
- 25 limit 24 to yr="1995 - 2009"
- 26 exp animals/
- 27 26
- 28 limit 27 to human
- 29 25 not (26 not 28)
- 30 accept*.ti,ab.
- 31 (percep* or perceived).ti,ab.
- 32 opinion*.ti,ab.
- 33 attitude*.ti,ab.
- 34 resist*.ti,ab.
- 35 barrier*.ti,ab.
- 36 receptiv*.ti,ab.
- 37 complian*.ti,ab.
- 38 comply.ti,ab.
- 39 concord*.ti,ab.
- 40 attitudes/ or adolescent attitudes/
- 41 facilitat*.ti,ab.
- 42 resistance/
- 43 communication barriers/
- 44 compliance/
- 45 or/30-44
- 46 (qualitative* or interview* or "focus group*" or questionnaire* or narrative* or narration* or survey*).ti,ab.
- 47 (ethno* or emic or etic or realist or phenomenolog* or "grounded theory" or "constant compar*" or (thematic* adj4 analys*) or "theoretical sampl*" or "purposive sampl*").ti,ab.

Drug misuse prevention: Appendix 2 to Evidence Review 1
Search strategies

48 (metasynthes* or "meta-synthes*" or "metasummar*" or "meta-summar*" or metastud* or "meta-stud*" or metathem* or "meta-them*").ti,ab.
 49 qualitative research/
 50 interviews/
 51 group discussion/
 52 Questionnaires/
 53 exp Surveys/
 54 ethnography/
 55 (experience* or (research adj3 participat*) or "mixed method*" or (integrated adj (approach* or method*))).ti,ab.
 56 or/46-55
 57 29 and (45 or 56)
 58 57
 59 limit 58 to english language
 60 exp intervention/
 61 (program* or intervention* or approach* or campaign* or project* or curricul* or service* or policy or policies).ti,ab.
 62 60 or 61
 63 59 and 62

Database name: Social Policy & Practice

Strategy

1 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti,sh.
 2 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,sh.
 3 or/1-2
 4 prevent*.ti,ab,sh.
 5 (avoid* or refus*).ti,ab,sh.
 6 (abstention or abstinen* or abstain*).ti,ab,sh.
 7 or/4-6
 8 3 and 7
 9 ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or (ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*")) adj3 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)).ti,ab,sh.
 10 (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or ((amyl or butyl) adj (nitrate or nitrite)) or "new* psychoactive" or "novel psychoactive" or NPS or NPSS).ti,ab,sh.
 11 or/9-10
 12 prevent*.ti,sh.
 13 (avoid* or refus*).ti,sh.
 14 (abstention or abstinen* or abstain*).ti,sh.
 15 or/12-14
 16 11 and 15
 17 8 or 16
 18 17
 19 limit 18 to yr="1995 - 2009"
 20 19 not ((hepatitis or coronary or heart or renal or kidney or epilep*).ti. or (hiv adj prevent*).tw.)
 21 accept*.ti,ab,sh.
 22 (percep* or perceived).ti,ab,sh.
 23 opinion*.ti,ab,sh.
 24 attitude*.ti,ab,sh.
 25 resist*.ti,ab,sh.
 26 barrier*.ti,ab,sh.
 27 facilitat*.ti,ab,sh.
 28 receptiv*.ti,ab,sh.
 29 complian*.ti,ab,sh.

Drug misuse prevention: Appendix 2 to Evidence Review 1

Search strategies

| | |
|----|---|
| 30 | comply.ti,ab,sh. |
| 31 | concord*.ti,ab,sh. |
| 32 | (experience* or (research adj3 participat*) or "mixed method*" or (integrated adj (approach* or method*))).ti,ab,sh. |
| 33 | or/21-32 |
| 34 | (qualitative* or interview* or "focus group*" or questionnaire* or narrative* or narration* or survey*).ti,ab,sh. |
| 35 | (ethno* or emic or etic or realist or phenomenolog* or "grounded theory" or "constant compar*" or (thematic* adj4 analys*) or "theoretical sampl*" or "purposive sampl*").ti,ab,sh. |
| 36 | (metasynthes* or "meta-synthes*" or "metasummar*" or "meta-summar*" or metastud* or "meta-stud*" or metathem* or "meta-them*").ti,ab,sh. |
| 37 | or/34-36 |
| 38 | 20 and (33 or 37) |
| 39 | (program* or intervention* or approach* or campaign* or project* or curricul* or service* or policy or policies).ti,ab,sh. |
| 40 | 38 and 39 |

Database name: CENTRAL/HTA

| Strategy | |
|----------|---|
| ID | Search |
| #1 | ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*") near/4 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)):ti |
| #2 | (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephadrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new* psychoactive" or "novel psychoactive" or NPS or NPSS or mephedrone):ti |
| #3 | [mh ^"street drugs" [mj]] |
| #4 | [mh ^"designer drugs" [mj]] |
| #5 | [mh ^"substance-related disorders" [mj]/PC] |
| #6 | [mh ^"amphetamine-related disorders" [mj]/PC] |
| #7 | [mh ^"cocaine-related disorders" [mj]/PC] |
| #8 | [mh ^"Inhalant Abuse" [mj]/PC] |
| #9 | [mh ^"marijuana Abuse" [mj]/PC] |
| #10 | [mh ^"Opioid-Related Disorders" [mj]/PC] |
| #11 | [mh ^"Phencyclidine Abuse" [mj]/PC] |
| #12 | [mh ^"Substance Abuse, Intravenous" [mj]/PC] |
| #13 | [mh ^"Drug-Seeking Behavior" [mj]] |
| #14 | [mh ^"Marijuana Smoking" [mj]/PC] |
| #15 | [mh ^"Performance-Enhancing Substances" [mj]] |
| #16 | {or #1-#15} |
| #17 | MeSH descriptor: [Preventive Health Services] this term only |
| #18 | MeSH descriptor: [Primary Prevention] this term only |
| #19 | MeSH descriptor: [Secondary Prevention] this term only |
| #20 | prevent*.ti,ab |
| #21 | (avoid* or refus*):ti,ab |
| #22 | (abstention or abstinen* or abstain*):ti,ab |
| #23 | {or #17-#22} |
| #24 | #16 and #23 |
| #25 | ((Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active*" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*") near/4 (use* or abus* or misuse* or "mis-use*" or refus* or problem* or taking or take* or experiment*)):ti,ab |
| #26 | (Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephadrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new* psychoactive" or "novel psychoactive" or NPS or NPSS or mephedrone):ti,ab |
| #27 | MeSH descriptor: [Street Drugs] this term only |
| #28 | MeSH descriptor: [Designer Drugs] this term only |
| #29 | MeSH descriptor: [Substance-Related Disorders] this term only and with qualifier(s): |

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[Prevention & control - PC]
#30 MeSH descriptor: [Amphetamine-Related Disorders] this term only and with qualifier(s):
[Prevention & control - PC]
#31 MeSH descriptor: [Cocaine-Related Disorders] this term only and with qualifier(s): [Prevention & control - PC]
#32 MeSH descriptor: [Inhalant Abuse] this term only and with qualifier(s): [Prevention & control - PC]
#33 MeSH descriptor: [Marijuana Abuse] this term only and with qualifier(s): [Prevention & control - PC]
#34 MeSH descriptor: [Opioid-Related Disorders] this term only and with qualifier(s): [Prevention & control - PC]
#35 MeSH descriptor: [Phencyclidine Abuse] this term only and with qualifier(s): [Prevention & control - PC]
#36 MeSH descriptor: [Substance Abuse, Intravenous] this term only and with qualifier(s):
[Prevention & control - PC]
#37 MeSH descriptor: [Drug-Seeking Behavior] this term only
#38 MeSH descriptor: [Marijuana Smoking] this term only and with qualifier(s): [Prevention & control - PC]
#39 MeSH descriptor: [Performance-Enhancing Substances] this term only
#40 {or #25-#39}
#41 [mh ^"preventive health services" [mj]]
#42 [mh ^"primary prevention" [mj]]
#43 [mh ^"secondary prevention" [mj]]
#44 prevent*:ti
#45 (avoid* or refus*):ti
#46 (abstention or abstin* or abstain*):ti
#47 {or #41-#46}
#48 #47 and #40
#49 #24 or #48 Publication Year from 1995 to 2009
#50 hepatitis or coronary or heart or renal or kidney or epilep*:ti
#51 HIV next prevent*:ti,ab
#52 prevent* next HIV:ti,ab
#53 #49 not (#50 or #51 or #52)
#54 accept*:ti,ab
#55 (percep* or perceived):ti,ab
#56 opinion*:ti,ab
#57 attitude*:ti,ab
#58 MeSH descriptor: [Attitude] this term only
#59 resist*:ti,ab
#60 barrier*:ti,ab
#61 MeSH descriptor: [Communication Barriers] this term only
#62 facilitat*:ti,ab
#63 receptiv*:ti,ab
#64 complian*:ti,ab
#65 comply:ti,ab
#66 concord*:ti,ab
#67 {or #54-#66}
#68 (qualitative* or interview* or (focus next group*) or questionnaire* or narrative* or narration* or survey*):ti,ab
#69 (ethno* or emic or etic or realist or phenomenolog* or "grounded theory" or "constant compar*" or (thematic* near/4 analys*) or "theoretical sampl*" or "purposive sampl*"):ti,ab
#70 (metasynthes* or "meta-synthes*" or "metasummar*" or "meta-summar*" or metastud* or "meta-stud*" or metathem* or "meta-them*"):ti,ab
#71 MeSH descriptor: [Qualitative Research] this term only
#72 interview:pt
#73 MeSH descriptor: [Questionnaires] this term only
#74 MeSH descriptor: [Narration] this term only
#75 MeSH descriptor: [Data Collection] this term only
#76 MeSH descriptor: [Focus Groups] this term only
#77 (experience* or (research near/4 participat*) or "mixed method*" or (integrated next (approach* or method*)):ti,ab
#78 {or #68-#77}
#79 #53 and (#67 or #78)
#80 (program* or intervention* or approach* or campaign* or project* or curricul* or service* or policy or policies):ti,ab
#81 MeSH descriptor: [Intervention Studies] this term only
#82 #80 or #81

#83 #79 and #82

Database name: Social Care Online

| Strategies |
|---|
| <p>Title: prevent* OR avoid* or refus* OR abstention or abstinem* or abstain* AND All fields: Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active**" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*" or Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS AND All fields: accept* OR percep* OR perceived OR opinion* OR attitude* OR resist* OR barrier* OR facilitat* OR receptiv* OR complian* OR comply OR concord* OR qualitative* or interview* or focus group* or questionnaire* or narrative* or narration* or survey* or ethno* or emic or etic or realist or phenomenolog* or grounded theory or constant compar* or thematic* analys* or theoretical sampl* or purposive sampl* or metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or experience* or participat* or method* or integrated AND (program* or intervention* or approach* or campaign* or project* or curricul* or service* or policy or policies) AND Publication year: 1995-2009</p> <p>All fields: prevent* OR avoid* or refus* OR abstention or abstinem* or abstain* AND Title: Drug* or substance* or polydrug or "poly-drug" or "legal high*" or psychoactive* or "psycho-active**" or psychotropic* or ketamine or speed or spice or cocaine or crack or mushroom* or solvent* or inhalant or "nitrous oxide" or "laughing gas" or benzodiazepine* or tranquiliser* or tranquilizer* or opioid* or hallucinogen* or "anabolic steroid*" or Cannab* or marijuana or skunk or ecstasy or MDMA or LSD or "lysergic acid diethylamide" or amphetamine* or amfetamin* or mephedrone or mkat or "meow meow" or meth or methamphetamine or methamfetamin* or psychedelic* or pcp or phencyclidine or ped or peds or pied or peds or "performance enhancing" or "image enhancing" or heroin or poppers or "amyl nitrate" or "amyl nitrite" or "butyl nitrate" or "butyl nitrite" or "new psychoactive" or "newer psychoactive" or "novel psychoactive" or NPS or NPSS AND All fields: accept* OR percep* OR perceived OR opinion* OR attitude* OR resist* OR barrier* OR facilitat* OR receptiv* OR complian* OR comply OR concord* OR qualitative* or interview* or focus group* or questionnaire* or narrative* or narration* or survey* or ethno* or emic or etic or realist or phenomenolog* or grounded theory or constant compar* or thematic* analys* or theoretical sampl* or purposive sampl* or metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or experience* or participat* or method* or integrated AND (program* or intervention* or approach* or campaign* or project* or curricul* or service* or policy or policies) AND Publication year: 1995-2009</p> |

2A.6 Search step 5: Website searches

| Source | Date searched | Search terms | No. Retrieved |
|--|-----------------|--------------|---|
| NIHR Public Health Research Programme http://www.nets.nihr.ac.uk/projects | 4th August 2015 | Browsed | 0 published studies. 3 ongoing studies of note (not imported but flagged for analysts): PHR - 14/153/02: The Novel Psychoactive Substances in the UK Project (NPS-UK) PHR - 14/153/01: Variation and |

| | | | |
|--|-----------------|---|--|
| | | | Determinants of Novel Psychoactive Substance (NPS) Use: Potential Implications for Policy and Practice PHR - 12/153/19 The effects of Positive Youth Development interventions on substance use, violence and inequalities: systematic review of theories of change, processes and outcomes |
| Advisory Council on the Misuse of Drugs https://www.gov.uk/government/publications?departments%5B%5D=advisory-council-on-the-misuse-of-drugs | 4th August 2015 | prevent* OR avoid* or refus* OR abstention or abstinen* or abstain* Browsed for any publications released since scoping searches | 1 + 3 from original scoping searches. |
| European Monitoring Centre for Drugs and Drug Addiction http://www.emcdda.europa.eu/publications | 4th August 2015 | Browsed all publications | 11 imported. |
| UN Office on Drugs & Crime https://www.unodc.org/unodc/en/drug-prevention-and-treatment/publications.html | 4th August 2015 | Browsed all publications under 'drug prevention and treatment section' (see link to left) | 4 imported. |
| Organization of American States http://www.cicad.oas.org/Main/Template.asp?File=/reduccion_demanda/Pubs_ENG.asp | 4th August 2015 | Browsed all publications in 'demand reduction' section (see link to left) | Nothing relevant found. |

2A.7 Search step 6: Named programme search

| Database name | Date searched | Database Platform | Database segment or version | Saved search account | No. of results |
|------------------------------|------------------|-------------------|-----------------------------|----------------------|----------------|
| Medline & Medline in-process | 13th August 2015 | Ovid | 1946- | NICECPHE | 530 |
| Medline & Medline in-process | 28th August 2015 | Ovid | 1946- | NICECPHE | 863 |
| Total | | | | | 1393 |

List of named programmes searched for:

Good life (approach)

Project CHAT

EARLY ALLIANCE

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| | |
|---|--|
| PEPS (Prevention Enhancement Protocols System) | Informed Parents and Children Together (ImPACT) |
| SBIRT (Screening, Brief Intervention, and Referral for Treatment) | Family Advocacy Network (FAN Club) |
| DARE (Drug abuse resistance education) | Positive Adolescent Life Skills (PALS) training |
| Good Behaviour Game (GBG) | Adults in the Making (AIM) |
| Strengthening Families Program (SFP) | Project CHOICE |
| HOPE family project | Middle School Success (MSS) |
| Early Risers "Skills for Success" Program | Climate Schools |
| Project ALERT | Familias Unidas (Families United) |
| Teen Intervention Project | Linking Interests of Families and Teachers |
| Healthy School and Drugs Project | Youthoria |
| BRAVE (Building Resiliency and Vocational Excellence) | Adolescent Transitions Program (ATP) |
| Project C.A.R.E | Risk Skills Training Program (RSTP) |
| Project STAR | Reconnecting Youth (RY) |
| Project SAFE (Strengthening America's Families and Environment) | Refuse to Use |
| SFA (Skills for Adolescence) | Focus on Families (AKA Families Facing the Future) |
| Friends in Need | Family Competence Programme (FCP) |
| Familias que Funcionan ('Families that Work') | 'On Track' multiple intervention programme |
| Communities that care | Super Leaders peer-leadership training programme |
| Keepin' it Real (R.E.A.L.) | Seven Circles community substance abuse prevention coalition |
| Preparing for the Drug Free Years (PDFY) | Right Turns Only (RTO) |
| Woodrock Youth Development Project (YDP) | Keep A Clear Mind |
| Across Ages | Narconon |
| Prevention through Alternative Learning Styles (PALS) | Police, Public Educators and Peers Utilizing the Leadership Skills of Students At Risk/As Resources (PULSAR) |
| All Stars | Rock Challenge |
| Strong African American Families - Teen (SAAF-T) | TUNNELS |
| | Take Charge of Your Life |

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| | |
|--|---|
| Adolescent Cannabis Check-Up (ACCU) | Parents under Pressure |
| AIDS Evaluation of Street Outreach Project (AESOP) | Pathways Home manualized selective preventive intervention |
| ASPIRE | Positive Youth Development (PYD) |
| Boys and girls clubs | Project Alcohol and Substance Abuse Services Education and Referral to Treatment (ASSERT) |
| Campus Corps | Project SUCCESS |
| Therapeutic Mentoring for At-Risk Youth | Project Towards No Drug Abuse (TND) |
| Climate and Preventure | SAFE4KIDS |
| Change the Cycle | Social Personal Health Education (SPHE) |
| Clubs against Drugs | Staying Connected with Your Teen |
| Drug | Street Smart |
| Alcohol and Tobacco Education (DATE) | Strengthening Families Program (SFP) |
| Drug Idle | Strengths Based Case Management |
| Drug-Free Communities Support Program | Substance Abuse and Mental Health Service Administration (SAMHSA) Strategic |
| Ecologically-based Family Therapy | Prevention Framework (SPF) |
| Home to Homeroom program | Community Reinforcement Approach |
| Housing First | The Ecstasy Check-up |
| Incredible Years Parenting Program | The Family Check-Up (FCU) |
| Individual Prevention Services program | Too Good for Drugs (TGFD) |
| Keighley Choices programme | Treatment First |
| Life Skills Training | Weed-Check |
| Mersey Model of Harm Reduction | Youth Injection Prevention project (YIP) |
| Multidimensional Treatment Foster Care | Alcohol, tobacco, and other drug (ATOD) prevention program |
| New Beginnings Program | |
| Parents and Youth with Schools | |

| |
|--|
| <p>Additional notes on search approach/construction at this stage</p> <p>The above named programmes were identified as possibly relevant following an initial (title & abstract) sift of the results for search steps 1-3. Additional programmes identified in later steps weren't included due to time constraints.</p> <p>The original intention was to use PubMed due to its slight currency advantage over Ovid Medline, however it quickly became apparent that PubMed was over-interpreting the query and imputing additional search terms, so the decision was made to switch to using Ovid Medline.</p> |
|--|

In general, title and abstract searches were performed for both the full name and common acronym(s) for each programme, however some acronyms (for example CAP) were dropped if they were not used specifically in relation to a drug-misuse prevention programme.

If a search line brought back more than 100 references it was combined with the drug-related terms from previous steps in order to reduce the number of hits relating to programmes which are used across multiple domains (for example drug misuse; smoking or juvenile delinquency).

Three programmes with non-specific names (Can Stop; Moment; Strive) were excluded from searching. Searches were carried out in two batches, as outlined in the table above, for purely practical reasons.

2A.8 Search steps 7 to 10: Additional citation searching

Each of these steps involved citation searching in Web of Science. References which could be downloaded from Web of Science's Core Collection were imported into Endnote.

| Description | Date searched | Exported references |
|---|-------------------|---------------------|
| Step 7: Backwards citation searching based on two additional systematic reviews identified outside step 1. | 8th October 2015 | 160 |
| Step 8: Backwards & forwards citation searching based on 7 additional topic-relevant references flagged by the analysts. Most of these references were not available in WoS so additional steps taken to try to identify related publications. These additional steps are outlined below. | 9th October 2015 | 60 |
| Step 9: Backwards citation searching based on 35 included studies from steps 1-6. | 19th October 2015 | 440 |
| Step 10: Forwards citation searching based on 35 included studies from steps 1-6.. | 19th October 2015 | 680 |

Step 8 additional notes

| Reference | Request from analyst | IS notes |
|---|---|--|
| Cunningham, P. B. et al (2001) Implementation of an empirically based drug and violence prevention and intervention program in public school settings. Journal of Clinical Child Psychology. 30 p.221-32 | This is an implementation-type study with no effectiveness data reported. Can you forward citation search to see if an effectiveness study has subsequently been published? | 17 forward citations downloaded from WoS. |
| Buncher, Robert M. (1997) The replicability and transferability of a school-based substance abuse prevention program to a community-based setting [Dissertation]. | This is a dissertation abstract. Can you see if the full dissertation has been published anywhere? | Dissertation not found in WoS. No forward cites in Journals@Ovid or MS Academic Search. 2 forward cites in Google Scholar, neither are reporting the same study as the dissertation. The abstract is available here. The related programme is called Project KICK (Kids In Cooperation with Kids). Searched Medline, Psychinfo for: 1. "Project KICK".tw. 2. "Kids In Cooperation with Kids".tw. 3. 1 OR 2 1 reference retrieved from Medline, 6 from PsychInfo. Duplicate of seed reference and 2 obviously irrelevant references deleted. 4 remaining references imported to EndNote. |
| Chamberlain, Patricia et al. (2006) Preventing behavior problems and health-risking behaviors in girls in foster care. International Journal of Behavioral Consultation and Therapy. 2 p.518-530. | This paper reports the study design for an upcoming effectiveness evaluation; can you forward citation search to see if this evaluation has subsequently been published? | Reference not available in WoS but the study it refers to has been prospectively registered on clinicaltrials.gov. There are... 6 linked studies in CT.gov. PubMed records downloaded. 22 forward citations in Google Scholar, which were downloaded. |
| Dembo, Richard et al. (1999) Engaging high risk families in community based intervention services. Aggression and Violent Behaviour. 4 p.41-58. | There are no effectiveness data reported in this qualitative evaluation; can you citation search to see if an effectiveness study has been published? | 2 forward citations in WoS 26 backward citations in WoS 8 downloadable from the two above sets. |
| Strout, Michelle (2007) Evidence-based practices for substance abuse prevention: Reports from the front line [dissertation]. | This is a dissertation abstract. Can you see if the full dissertation has been published anywhere? | Not available in WoS. Only in Google Scholar as a citation (so no linked forward citations) Nothing in Ovid cited publications; Microsoft Academic search No other publications for the author in Pubmed, PsychInfo. |
| Chaney, Michael P., Brubaker, Michael D. (2012) Addiction in LGBTQ communities: Influences, treatment, and prevention. Special Issue: Addiction in LGBTQ Communities: Influences, Treatment, and Prevention. 6 p.234-236. | This is an editorial from a journal special issue. Can this particular issue be searched for its primary studies? | Downloaded 4 references on drug misuse directly from journal website. |
| Moyer, Virginia A., U. S. Preventive Services Task Force (2014) Primary care behavioral interventions to reduce illicit drug and nonmedical pharmaceutical use in children and adolescents: | This is a clinical guideline. Can you citation search for the primary studies on which it's based? | 7 references downloaded from WoS. Looking at the reference list I think the key source is likely to have been the systematic review by Patnode et al (2014) that we picked up in our step 1 searches. |

| | | |
|---|--|--|
| U.S. Preventive Services Task Force recommendation statement. Annals of Internal Medicine. 160 p.634-9 | | |
|---|--|--|

2A.9 Search step 11: Addition of included studies from previous guideline (NICE PH4)

The reference list of NICE PH4, which had a different scope to the current guideline, was checked for additional studies which were published within the date cut-off for the current guideline.

96 references that hadn't already been sifted for the present guideline were identified from PH4. Of these, 90 were downloaded into Endnote. Two of the six remaining references were dissertations that were only available as citations rather than complete documents. The remaining four references came from the grey literature and had apparently been removed from the host organisations' websites.

An additional two references which were cited in the Evidence Update document for PH4 but not identified in any of the previous search steps were also added to the database for sifting.

2A.10 Post peer-review testing

The evidence review was peer reviewed before publication – a standard option in the NICE process. The reviewers suggested that an additional database search for randomised controlled trials may have been useful. This step was not included in the original protocol, in part because the inclusion criteria for the review require the identification of a broader range of study designs, and also because the review team felt that the approach outlined in the protocol was sufficient to identify randomised controlled trials (RCTs) with reasonable sensitivity and precision.

Following the peer reviewers' comments, NICE's Information Specialist tested the potential impact of additional RCT searching in Ovid Medline & Medline in-process.

The subject terms from step 3 were combined with NICE's standard RCT filter and a publication date limit (from 1995 onwards) was applied. 1328 references were retrieved. Based on the numbers retrieved for steps 3 and 4 this would imply an overall retrieval of around 3500 references if the exercise was repeated across other databases.

20 "on topic" references were selected to act as a test set. "On topic" in this instance means that the references were reporting RCTs of drug misuse prevention interventions: the type of material the search was aiming to find. It does not necessarily imply that these studies met the full inclusion criteria for the final review. The "on topic" references were found by sifting 92 references, selected from the full set of 1328 using the random number generator at www.random.org.

Of the 20 test references, 19 had already been picked up by NICE's search approach. The remaining reference would not have been includable in the final review as it discussed a universal rather than a targeted intervention.

The peer reviewers also suggested that additional search terms for novel psychoactive substances should have been included in the search. Additional terms (methoxetamine; O-desmethyltramadol; desoxypipradrol; 2-DPMP etc) had been mentioned in the scope document for the guideline but had not specifically been searched for. These terms were left out of the original searches as the review team felt it unlikely that such specific terminology would be used to discuss a prevention programme, in isolation from other terms.

Retrospectively, the step 3 searches were repeated in Medline and Medline in process with the addition of all terms for novel psychoactive substances mentioned in the guideline scope. The search yielded an additional 16 references. 15 of these did not discuss misuse at all and remaining reference was a non-interventional study.

The peer reviewers also noted that the word narcotic was not used as a search term. This was a genuine omission, however it would likely have been compensated for to some extent by the use of additional, broad search terms, thesaurus headings and citation searching.

To test this assumption, the step 3 searches were again repeated in Medline & Medline in process with the addition of the term narcotic*. This brought back only 7 additional references, none of which were interventional studies.

Given that the post-peer review Medline searching produced no further includable studies, the high degree of overlap between the review searches and the sample from the Medline RCT search, and the low conversion rate of potential-to-final-includes found during the full text sifting process, the review team concluded that further searching was not necessary following peer review.

Appendix 2B: Review Protocol

Review protocol for review question 1: Which targeted interventions are most effective and cost effective in preventing drug misuse among groups of people most at risk?

| | Details | Additional comments |
|-----------------------------------|---|--|
| Main review question for review 1 | Which targeted interventions are most effective and cost effective in preventing drug misuse among groups of people most at risk? | See population section re. targeting. |
| Sub question 1 for review 1 | How does effectiveness vary according to the content and framing of any message? | For example, harm minimisation compared with abstinence. |
| Sub question 2 for review 1 | How does effectiveness vary according to mode of delivery? | For example, use of leaflets compared with text messages. |
| Sub question 3 for review 1 | How does effectiveness vary according to who delivers it? | For example, health professionals compared with members of the peer group. |
| Sub question 4 for review 1 | How does effectiveness vary according to where it is delivered? | For example, youth clubs compared with schools. |
| Sub question 5 for review 1 | How does effectiveness vary according to intensity/duration of the intervention? | Not applicable. |
| Sub question 6 for review 1 | How does effectiveness vary according to intended recipient? | For example, younger compared with older age groups. |
| Objective of review | The reviews will support the PHAC in developing recommendations for local authorities, service providers and commissioners about how best to commission and provide targeted interventions that prevent or delay drug use, or that prevent escalation of drug use in terms of frequency, volume and diversification of drugs used. | None. |
| Language | English only | None. |
| Study design | <p>Effectiveness studies will be included if they <i>either</i> contain a comparison group receiving different interventions (randomised or non-randomised) <i>or</i> present outcome data for both before and after the intervention.</p> <p>Systematic reviews of studies that fit the description above will be included.</p> <p>All types of qualitative primary studies, including survey studies will be excluded from this review but will be tagged for inclusion in the qualitative review (review 2).</p> <p>All conference abstracts will be excluded.</p> | <p>Sifting by study type will only be conducted at the full text stage. Studies that meet all other criteria except for the need for a comparison group or before & after data will be kept to one side (e.g. evaluation studies that may only have asked participants to assess the intervention / provide outcomes after it has taken place) for consideration. This type of study may be included if it's the only type of data available for certain target populations / interventions.</p> |

Drug misuse prevention: Appendix 2 to Evidence Review 1

Review Protocol

| | Details | Additional comments |
|---------|--|--|
| | <p>Studies that do not meet the minimum criteria for applicability and methodological quality will be excluded.</p> <p><i>Health Economics:</i> Relevant economic evaluations will be tagged by the NICE review team at the title & abstract sifting stage. A bibliography of tagged references will be passed to the HE review contractors. HE studies are eligible for tagging if it is suspected that they report full economic evaluations or both costs and health consequences of an interventions and comparator.</p> <p>The following study types could be tagged:</p> <p>Cost-consequences analysis; Cost-benefit analysis; Cost-utility analysis; Cost-effectiveness; Cost-minimisation.</p> <p>Costing studies, 'burden of disease' studies and 'cost of illness' studies will not be tagged.</p> | |
| Setting | <p><i>Included</i></p> <p>Social environments where drugs may be available such as nightclubs, pubs, festivals and music venues. Fitness environments such as gyms and sporting events. Environments where drugs may be used in a sexual context (for example, 'chemsex' parties). Online and 'virtual' environments, including social media. Youth clubs and youth organisations. Schools, colleges and universities. Health, social care and other environments where interventions may be delivered, for example, primary health care services, sexual health services and custody suites.</p> <p>Included countries are: Australia, Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland,</p> | <p>Countries: as described, the reviews will only include studies from countries in the European Union, Switzerland, Iceland, Norway, USA, Canada, New Zealand and Australia. All other countries are considered to have significant cultural differences to the UK and are therefore excluded.</p> <p>Universal schools interventions: this topic was discussed thoroughly by the review team. During the step 1 title and abstract sift, systematic reviews of universal schools interventions were tagged and ordered. These studies were set aside for further consideration. It was decided that universal schools interventions would not be included. It was decided that for all other steps within the search, any studies relating to universal school interventions will be excluded.</p> |

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| | Details | Additional comments |
|--------------|---|--|
| | <p>France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, UK, USA.</p> <p><i>Excluded</i> Interventions in prisons and young offender institutions will be excluded. Universal school based interventions (i.e. those not targeted at any of the population groups described) will be excluded (see additional comments). Interventions set in the workplace will be excluded (other NICE guidance covers workplace interventions).</p> | |
| Population | <p>Following discussion with Liverpool HE team on 25/06/15, it has been agreed that only at risk population groups will be considered for the purposes of targeting. Only the 10 following population groups will be included:</p> <ul style="list-style-type: none"> people who have mental health problems people involved in commercial sex work or are being sexually exploited people who are lesbian, gay, bisexual or transgender people not in employment, education or training (including children and young people who are excluded from school or are regular truants) children and young people whose parents use drugs looked after children and young people children and young people who are in contact with young offender team but not in secure environments (prisons and young offender institutions) people who are considered homeless people who attend nightclubs and festivals people who are known to use drugs occasionally / recreationally. | <p>It is not possible to look at all populations who use drugs. The list identified represents the children, young people and adults who are most likely to start using drugs or who are already experimenting or who use drugs occasionally or who are risk of moving onto other drugs.</p> <p>The NICE team also considered if any particular ethnic groups should be included in the target population group list above. Based on 2013/14 statistics in Section 5 of the Crime Survey for England and Wales it was decided on 30/06/15 that ethnicity would not be covered in the population target group list.</p> |
| Intervention | <p>Interventions will be included that have a stated and measured aim of enhancing personal and social skills, improving their self-confidence, increasing knowledge and awareness about the risks of drug use and/or increasing knowledge and awareness about how to reduce the risks and harms of drug use:</p> | |

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| | Details | Additional comments |
|------------|--|--|
| | group-based skills training or information provision using lessons, talks and activities | For example, targeted refusal skills training in schools and colleges. |
| | one-to-one skills training, information provision and advice given as part of planned outreach activities | For example, for young people at festivals. |
| | one-to-one skills training, advice and information provided using peer education initiatives | For example, with gay men in nightclubs. |
| | opportunistic skills training, advice and information provision | For example, provided by youth workers. |
| | using targeted print and new media for different groups at risk of drug misuse to influence social norms or enhance skills and provide information and advice | For example, magazines, websites, social media, text messages. |
| | family-based programmes providing structured support for children and young people at risk of drug misuse group-based behaviour therapy for children and young people who are at risk of drug misuse | For example, motivational interviewing for parents or carers and parental skills training. Focusing on coping mechanisms, problem-solving and goal setting. |
| | parental skills training for parents or carers of children who are at risk of drug misuse | Focusing on stress management, communication skills, helping children develop problem-solving skills and setting behavioural targets. |
| Comparator | Other intervention No intervention or 'normal care' Before and after | None. |
| Outcomes | Any objective outcomes related to drug misuse prevention. For example: Quality of life measures. Drug-related morbidity and mortality (for example, hospital admissions). Objective measures of drug use (for example, blood or urine tests). Behavioural outcomes (many will be self-reported outcomes). For example: Person never uses drugs. Onset of drug use is delayed. Person uses drugs less frequently. Person stops using drugs. Co-morbid measures (for example, alcohol use). | During the review process, enough drug outcomes were reported in the studies that the use of alcohol use as a co-morbid measure was not deemed an important outcome. |

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Review Protocol

| | Details | Additional comments |
|--|---|--|
| Searches [See Appendix 2A for the search for each step] | Searches will follow a iterative, step-wise approach. Individual search steps are outlined below. The same set of results will be sifted for reviews 1 and 2. Note that steps 1-6 represent the original search outline. Subsequent steps (7-11) were added to the process after the amount of time available for sifting was revised. Where a search step was dependent on prior steps the decisions made as to which direction to adopt are either noted below or in the relevant section of appendix 2A. | An initial search using a 'classical' search approach indicated that in excess of 36,000 papers would be retrieved in Medline alone, even with a relatively small set of search terms. The team decided it would not be appropriate to use this type of approach for this guideline. The iterative, step-wise approach outlined below aims to balance precision and sensitivity without producing an unmanageable volume of results. This is in accordance with the guidance set out in the NICE guidelines development manual, section 5.1. In particular it should be noted that preventative programmes (as described in the NICE scope) are not always flagged as such in the relevant literature. |
| | Step 1: Search for systematic reviews only from 1995 to 2015 using the following databases: Cochrane Database of Systematic Reviews (CDSR) Database of Abstracts of Reviews of Effectiveness (DARE) HealthEvidence.org Campbell library DoPHER NIHR systematic reviews programme website Guidelines: Guidelines.gov will be searched and any guidelines identified during the scoping exercise for this work will also be factored in. Any systematic reviews identified in any relevant guidelines will be ordered. | Some sources will be browsed rather than searched where this approach is considered more time-efficient than searching. Reviewer A and B will sift all the search results (100% double sifting) for step 1. |
| | Step 2: All relevant systematic reviews identified in step 1 will be entered into Web of Science and a backward citation search will be performed to produce a database of included studies. | Note that only those references which can be automatically downloaded from the Web of Science Core Collection (including Medline) will be downloaded. This is therefore not "pure" citation searching, though it is expected to be far more efficient in terms of time. We expect subsequent protocol steps will help to address some of the deficit in retrieval compared to pure citation searching. |
| | Step 3: Given the time lag between the publication of a primary study and its potential inclusion in a published systematic review, the following sources will be searched from 2010 in order to identify recent primary evidence. Cochrane Central Register of Controlled Trials (CENTRAL) | The search strategy at this stage is likely to be broad but not comprehensive. In particular, we may choose to run less comprehensive searches on Embase and PsychInfo as the incremental yields from these databases are likely to be low once other sources are factored in. |

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| | Details | Additional comments |
|--|--|---|
| | <p>HTA database Embase MEDLINE/MEDLINE in Process Social Policy and Practice Social Care Online PsychInfo TrOPHI</p> | |
| | <p>Step 4: A more focused search of the databases in step 3, ranging back to 1995. This step is carried out as a back-stop in the event that we identify gaps in coverage for the evidence retrieved steps 1-3.</p> | <p>Following sifting of evidence from previous search steps, the review team focused on identifying additional evidence relating to evidence review 2 (acceptability of interventions). Material retrieved was still sifted for potential inclusion in either review 1 or review 2.</p> |
| | <p>Step 5: Web searching In addition, the following websites will be searched: NIHR Public Health Research Programme Advisory Council on the Misuse of Drugs European Monitoring Centre for Drugs and Drug Addiction UN Office on Drugs & Crime Organization of American States</p> <p>Relevant material identified by the review team via other routes (for example during the scoping exercise for this review) will also be included at this stage.</p> | <p>None.</p> |
| | <p>Step 6: Named programme search. A list of specific programmes (for example the “good life approach”) will be compiled by the review team during steps 1-5. An additional search of Medline will be carried out using the names of these programmes as keywords in order to identify any additional, named articles.</p> | <p>None.</p> |
| | <p>Steps 7-10: Additional citation searching in Web of Science, based on included references or selected, topic-relevant but non-includable material identified during previous search steps.</p> | <p>None.</p> |

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| | Details | Additional comments |
|------------------------|---|---------------------|
| | Step 11: Any additional references included in NICE guideline PH4 or the subsequent Evidence Update document, which also meet the date limits for the present guideline, will also be submitted for sifting. | None. |
| Data screening | <p>All references from the database searches in each step will be downloaded, deduplicated and screened on title and abstract against the criteria above. Where no abstract is available, a web search will be used to locate one; if none is found, references will be screened on title alone.</p> <p>For all search steps described previously, except step 1, a randomly selected sample of 10% of records at title and abstract level will be screened by two reviewers (A and B) independently. The rate of agreement will be recorded. Disagreement will be resolved through discussion and with the arbiter as necessary. All records will be screened at title and abstract level by reviewer A.</p> <p>Where abstracts meet all the inclusion criteria, or if it is unclear from the study abstract whether it does, the full text will be retrieved and re-screened. Full-text screening will be carried out by two reviewers (A and B) independently and any differences resolved by discussion and with the arbiter if necessary. Inter-rater reliability will be recorded.</p> <p>Studies that are excluded at the full paper stage will be recorded along with the reason for their exclusion.</p> | None. |
| Data extraction and QA | Quality assessment and data extraction for all included studies will be conducted using the tools in Developing NICE guidelines: the manual . All studies will be quality assessed and data extracted by one reviewer, with all data checked in detail by a second reviewer. Details of all extracted data will be entered into comprehensive evidence tables. | None. |
| Data synthesis | Data will be synthesised narratively in the first instance. If sufficiently homogeneous and high-quality data are located, meta-analysis may be considered, although this is unlikely. | None. |
| Subgroup analysis | Where possible, the effectiveness of interventions for subgroups will be disaggregated and reported, along with any differential effect on | None. |

Drug misuse prevention: Appendix 2 to Evidence Review 1
Review Protocol

| | Details | Additional comments |
|----------------------------|--|----------------------------|
| | different subgroups. | |
| Other information/criteria | The review will report on any unintended consequences or adverse outcomes. | None. |

Appendix 2C: Quality Appraisal checklists

2C.1 EPOC Checklist for RCTs, non-randomised controlled trials and controlled before-after studies

Administrative details

| | |
|--|---|
| Study name or author and year [Type study name, or author and year (include letter if more than 1 paper with the same author and year, e.g. 'Smith 2010a')] | STAR ID [Type STAR ID] |
| Citation [Include citation details – usually authors, title of study, journal details, year] | |
| Linked studies (study name or author, year, STAR ID) [Include study name or author, year and STAR ID of any related studies, or state 'None'] | |
| Final study quality score [Click to choose the final quality score. See 'Calculation of final study quality score' below for details on how to complete this.] | |
| Date of QA [Click to choose the date the QA was completed] | Reviewer(s) names [Type name of the reviewer/reviewers completing the quality assessment] |

Calculation of final study quality score (from box 6.1 on page 95 of the NICE Guidelines Manual)

- ++ All or most of the checklist criteria have been fulfilled, and where they have not been fulfilled the conclusions are very unlikely to alter.
- + Some of the checklist criteria have been fulfilled, and where they have not been fulfilled, or are not adequately described, the conclusions are unlikely to alter.
- Few or no checklist criteria have been fulfilled and the conclusions are likely or very likely to alter.

Quality Assessment

For all questions:

- ++ 'Yes' The study full meets the criterion.
- + 'Partly' The study largely meets the criterion but differs in some important respect.
- 'No' The study deviates substantially from the criterion.
- 'Unclear' Report provides insufficient information to judge whether the study complies with the criterion.
- 'NA' (not applicable) The criterion is not relevant in this particular instance.

| Item | Decision | Comments |
|--|--|---|
| 1. Was the allocation sequence adequately generated? | [Click here to choose a decision. ++ if a random component in the sequence generation process is described (e.g. a random number table), - if a non-random method is used (e.g. date of admission) or if study is a non-randomised controlled trial or controlled before-after study] | [State how the allocation sequence was generated.] |
| 2. Was the allocation adequately concealed? | [Click here to choose a decision. ++ if allocation by institution, team or professional and allocation performed on all units at start of the study, or if the unit of allocation was by patient or episode of care and there was a centralised randomisation scheme (on-site computer system or sealed opaque envelopes). – if controlled before-after study.] | [State how the allocation was concealed.] |
| 3. Were baseline outcome measurements similar? | [Click here to choose a decision. ++ if performance or patient outcomes were measured prior to intervention and no important differences present across study groups. In RCTs score ++ if imbalanced but appropriate adjusted analysis was performed (e.g. analysis of covariance). Score - if important differences were present and not adjusted for in analysis.] | [State whether the baseline outcome measurements were similar.] |
| 4. Were baseline characteristics similar? | [Click here to choose a decision. ++ if baseline characteristics of the study and control providers are reported and similar. Score - if there is no report of characteristics or if there are differences between control and intervention providers.] | [State whether the baseline characteristics were similar.] |
| 5. Were incomplete outcome data adequately addressed? | [Click here to choose a decision. ++ if missing outcome measures were unlikely to bias the results (e.g. the proportion of missing data was similar in the intervention and control groups or the proportion of missing data was less than the effect size i.e. unlikely to overturn the study result). Score - if missing outcome data was likely to bias the results.] | [State whether incomplete outcome data were adequately addressed.] |
| 6. Was knowledge of the allocated interventions adequately prevented during the study? | [Click here to choose a decision. ++ if the authors state explicitly that primary outcome variables were assessed blindly, or outcomes are objective, e.g. length of hospital stay. Score - if primary outcomes were not assessed blindly.] | [State whether knowledge of the allocated interventions was adequately prevented during the study.] |
| 7. Was the study adequately protected against contamination? | [Click here to choose a decision. ++ if allocation by community, institution or practice and it is unlikely that the control group received the intervention. Score - if it is likely that the control group received the intervention (e.g. if patients rather than professionals were randomised). Score "unclear" if professionals were allocated within a clinic or practice and it is possible that communication between intervention and control professionals could have occurred (e.g. physicians within practices were allocated to intervention or control).] | [State whether the study was adequately protected against contamination.] |
| 8. Was the study free from selective outcome reporting? | [Click here to choose a decision. ++ if there is no evidence that outcomes were selectively reported (e.g. all relevant outcomes in the methods section are reported in the results section). Score - if some important outcomes are subsequently omitted from the results.] | [State whether the study was free from selective outcome reporting.] |

Drug misuse prevention: Appendix 2 to Evidence Review 1
Quality Appraisal checklists

| | | |
|---|--|--|
| 9. Was the study free from other risks of bias? | [Click here to choose a decision. Score ++ if there is no evidence of other risk of biases.] | [State whether the study was free from other risks of bias.] |
|---|--|--|

2C.2EPHPP Checklist for uncontrolled before and after studies (EPHPP)

Administrative details

| | |
|--|---|
| Study name or author and year [Type study name, or author and year (include letter if more than 1 paper with the same author and year, e.g. 'Smith 2010a')] | STAR ID [Type STAR ID] |
| Citation [Include citation details – usually authors, title of study, journal details, year] | |
| Linked studies (study name or author, year, STAR ID) [Include study name or author, year and STAR ID of any related studies, or state 'None'] | |
| Final study quality score [Click to choose the final quality score. See 'Calculation of final study quality score' below for details on how to complete this.] | |
| Date of QA [Click to choose the date the QA was completed] | Reviewer(s) names [Type name of the reviewer/reviewers completing the quality assessment] |

Calculation of final study quality score (from EPHPP tool http://www.ephpp.ca/PDF/Quality%20Assessment%20Tool_2010_2.pdf)

- ++ Strong. No weak ratings.
- + Moderate. One weak rating.
- Weak. Two or more weak ratings.

Quality Assessment

| Item | Component Rating | Section Rating | Comments |
|--|---|---|--|
| Selection bias | | | |
| 1. Are the individuals selected to participate in the study likely to be representative of the target population? | [Click here to choose a rating. Score 'very likely' if randomly selected from a comprehensive list of individuals in target population, 'somewhat likely' if referred from a source (e.g. clinic) in a systematic manner, 'not likely' if self-referred.] | [Click here to choose a decision. 'Strong' if Q1 is 'very likely' and Q2 is 80 to 100%. 'Moderate' if Q1 is 'very likely' or 'somewhat likely' and Q2 is 60 or 79% or 'can't tell'. 'Weak' if Q1 is 'not likely' or 'can't tell' and Q2 is 'can't tell'.] | [Add comments if necessary.] |
| 2. What percentage of selected individuals agreed to participate? | [Click here to choose a rating.] | | |
| Study design | | | |
| 3. What is the study design? | [Click here to choose a rating.] | [Click here to choose a decision. 'Strong' if RCT or CCT, 'moderate' if cohort analytic study, case control study, a cohort design, or interrupted time series, 'weak' for any other method or did not state method used.] | [Add comments if necessary, including description of study design if 'other'.] |
| 4. Was the study described as randomised? | [Click here to choose a rating. If 'no', mark questions 5 and 6 as 'not applicable' and go straight to 'Confounders' section.] | | |
| 5. Was the method of randomisation described? | [Click here to choose a rating.] | | |
| 6. Was the method of randomisation appropriate? | [Click here to choose a rating.] | | |
| Confounders | | | |
| 7. Were there important differences between groups prior to the intervention? | [Click here to choose a rating. Example of confounders include race, sex, marital status/family, age, socioeconomic status, education, health status, pre-intervention score on outcome measure.] | [Click here to choose a decision. 'Strong' if Q7 is 'no' or Q2 is 80% or more. 'Moderate' if Q7 is 'yes' and Q8 is 60 to 79%. 'Weak' if Q7 is 'yes' and Q8 is less than 60%, or if Q7 is 'cant' tell' and Q8 is 'can't tell'.] | [Add comments if necessary.] |
| 8. If yes, what percentage of relevant confounders were controlled (either in the design [e.g. stratification, matching] or analysis)? | [Click here to choose a rating.] | | |
| Blinding | | | |
| 9. Was/were the outcome assessor/s aware of the intervention or exposure status of participants? | [Click here to choose a rating.] | [Click here to choose a decision. 'Strong' if Q9 is 'no' and Q10 is 'no'. 'Moderate' if Q9 is 'no' or Q10 is 'no', or Q9 is 'can't tell' and Q10 is 'can't tell'. 'Weak' if Q9 is 'yes' and Q10 is 'yes'.] | [Add comments if necessary.] |
| 10. Were the study participants aware of the research question? | [Click here to choose a rating.] | | |

Drug misuse prevention: Appendix 2 to Evidence Review 1

Quality Appraisal checklists

| Data collection methods | | | |
|---|--|---|---|
| 11. Were data collection tools shown to be valid? | [Click here to choose a rating.] | [Click here to choose a decision. 'Strong' if Q11 is 'yes' and Q12 is 'yes'. 'Moderate' if Q11 is 'yes' and Q12 is 'no' or Q12 is 'can't tell'. 'Weak' if Q11 is 'no' or Q11 is 'can't tell' and Q12 is 'can't tell'.] | [Add comments if necessary.] |
| 12. Were data collection tools shown to be reliable? | [Click here to choose a rating.] | | |
| Withdrawals and drop-outs | | | |
| 13. Were withdrawals and drop-outs reported in terms of numbers and/or reasons per group? | [Click here to choose a rating.] | [Click here to choose a decision. 'Strong' if Q14 is 80% or more. 'Moderate' if Q14 is 60 to 79% or 'not applicable'. 'Weak' if Q14 is less than 60% or 'can't tell'.] | [Add comments if necessary.] |
| 14. What percentage of participants completed the survey? | [Click here to choose a rating. If percentage differs by groups, record the lowest.] | | |
| Intervention integrity | | | |
| 15. What percentage of participants received the allocated intervention or exposure of interest? | [Click here to choose a rating. If percentage differs by groups, record the lowest.] | Section rating not required. | [Add comments if necessary.] |
| 16. Was the consistency of the intervention measured? | [Click here to choose a rating.] | | |
| 17. Is it likely that subjects received an unintended intervention (contamination or co-intervention) that may influence the results? | [Click here to choose a rating.] | | |
| Analyses | | | |
| 18. What is the unit of allocation? | [Click here to choose a rating.] | Section rating not required. | [Add comments if necessary. Add details if 'other' selected for question 18 and/or 19.] |
| 19. What is the unit of analysis? | [Click here to choose a rating.] | | |
| 20. Are the statistical methods appropriate for the study design? | [Click here to choose a rating.] | | |
| 21. Is the analysis performed by intervention allocation status (i.e. intention to treat) rather than the actual intervention received? | [Click here to choose a rating.] | | |

Appendix 2D: Summary of quality of included studies

2D.1 Summary of studies assessed with the EPOC Checklist for RCTs, non-randomised controlled trials and controlled before-after studies

| Study | Was the allocation sequence adequately generated? | Was the allocation adequately concealed? | Were baseline outcome measurements similar? | Were baseline characteristics similar? | Were incomplete outcome data adequately addressed? | Was knowledge of the allocated interventions adequately prevented during the study? | Was the study adequately protected against contamination? | Was the study free from selective outcome reporting? | Was the study free from other risks of bias? | Overall score |
|-------------------------|---|--|---|--|--|---|---|--|--|---------------|
| Baer et al. (2007) | UC | UC | ++ | ++ | + | - | ++ | ++ | ++ | + |
| Catalano et al. (1999) | UC | UC | ++ | ++ | UC | UC | UC | UC | ++ | - |
| Catalano et al. (2002) | UC | UC | UC | UC | UC | UC | UC | ++ | ++ | - |
| Cervantes et al. (2004) | NA | NA | NA | NA | - | NA | NA | ++ | ++ | + |
| D'Amico et al. (2013) | + | UC | - | - | + | UC | ++ | ++ | ++ | + |
| De Dios et al. (2012) | UC | UC | ++ | ++ | UC | ++ | ++ | UC | + | + |
| De Gee et al. (2014) | ++ | ++ | ++ | ++ | ++ | - | ++ | ++ | ++ | ++ |
| Dore et al. (1999) | + | UC | UC | UC | UC | UC | UC | ++ | ++ | - |
| Edwards et al. (2006) | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Elliott et al. (2014) | UC | UC | ++ | ++ | ++ | UC | ++ | UC | ++ | + |

Drug misuse prevention: Appendix 2 to Evidence Review 1

Summary of quality of included studies

| Study | Was the allocation sequence adequately generated? | Was the allocation adequately concealed? | Were baseline outcome measurements similar? | Were baseline characteristics similar? | Were incomplete outcome data adequately addressed? | Was knowledge of the allocated interventions adequately prevented during the study? | Was the study adequately protected against contamination? | Was the study free from selective outcome reporting? | Was the study free from other risks of bias? | Overall score |
|---------------------------|---|--|---|--|--|---|---|--|--|---------------|
| Fischer et al. (2013) | + | UC | - | - | - | UC | UC | - | ++ | - |
| Fors and Jarvis (1995) | - | - | UC | - | - | UC | ++ | - | ++ | - |
| Goti et al. (2009) | UC | UC | UC | UC | UC | ++ | ++ | ++ | ++ | - |
| Haggerty et al. (2008) | UC | - | ++ | + | ++ | UC | UC | UC | ++ | - |
| Huang et al. (2014) | UC | + | ++ | ++ | ++ | UC | ++ | ++ | ++ | + |
| Kim and Leve (2011) | + | UC | - | ++ | ++ | ++ | UC | ++ | ++ | + |
| Lee et al. (2010) | ++ | UC | ++ | ++ | ++ | UC | ++ | ++ | ++ | + |
| Lee et al. (2013) | ++ | UC | ++ | ++ | UC | UC | ++ | + | ++ | + |
| McCambridge et al. (2008) | ++ | ++ | UC | ++ | ++ | + | ++ | ++ | ++ | ++ |
| Milburn et al. (2012) | ++ | UC | ++ | ++ | - | ++ | UC | ++ | + | + |
| Morgenstern et al. (2009) | ++ | - | ++ | + | + | UC | ++ | ++ | ++ | + |
| Norberg et al. (2014) | ++ | ++ | ++ | + | UC | ++ | + | ++ | ++ | + |
| Nyamathi et al. (2012) | UC | UC | UC | UC | - | UC | ++ | ++ | ++ | - |
| Orte et al. (2008) | - | - | ++ | UC | + | UC | ++ | ++ | ++ | + |
| Parsons et al. | UC | UC | ++ | ++ | UC | UC | ++ | ++ | ++ | + |

Drug misuse prevention: Appendix 2 to Evidence Review 1

Summary of quality of included studies

| Study | Was the allocation sequence adequately generated? | Was the allocation adequately concealed? | Were baseline outcome measurements similar? | Were baseline characteristics similar? | Were incomplete outcome data adequately addressed? | Was knowledge of the allocated interventions adequately prevented during the study? | Was the study adequately protected against contamination? | Was the study free from selective outcome reporting? | Was the study free from other risks of bias? | Overall score |
|------------------------|---|--|---|--|--|---|---|--|--|---------------|
| (2014) | | | | | | | | | | |
| Peterson et al. (2006) | ++ | ++ | ++ | ++ | - | - | ++ | ++ | ++ | + |
| Prado et al. (2012) | UC | + | ++ | ++ | ++ | UC | ++ | ++ | ++ | + |
| Rhoades et al. (2014) | UC | - | UC | UC | ++ | - | ++ | ++ | + | - |
| Schwinn et al. (2015) | UC | UC | ++ | ++ | - | UC | ++ | ++ | ++ | + |
| Smith et al. (2010) | UC | + | ++ | - | ++ | UC | ++ | ++ | ++ | + |
| Tait et al. (2015) | ++ | UC | ++ | ++ | ++ | UC | ++ | ++ | + | + |
| Walton et al. (2013) | ++ | UC | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Walker et al. (2011) | ++ | UC | ++ | ++ | ++ | UC | + | ++ | ++ | + |

NA Not applicable, UC Unclear.

Scoring for overall score:

8 or 9 ++ ratings gives an overall score of ++

Less than 8 or 9 ++ ratings, but majority + or ++ gives an overall score of +

A majority of – ratings or ‘unclears’ gives an overall score of -

2D.2 Summary of studies assessed with the EPHPP checklist for uncontrolled before and after studies

| Study | Selection bias | Study design | Confounders | Blinding | Data collection | Withdrawals and drop outs | Overall score |
|----------------------|----------------|--------------|-------------|----------|-----------------|---------------------------|---------------|
| Lynsky et al. (1999) | - | + | NA | NA | - | - | - |
| Shrier et al. (2014) | + | + | NA | + | ++ | + | + |

NA Not applicable.

Scoring for overall score:

No – ratings gives an overall score of ++

One – rating gives an overall score of +

Two or more – ratings gives an overall score of –

Appendix 2E: Excluded studies

| Study | Reason for Exclusion |
|--|---|
| Aalborg, A. E., et al., Implementation of adolescent family-based substance use prevention programmes in health care settings: Comparisons across conditions and programmes, <i>Health Education Journal</i> , 71, pp53, 2012 | Not targeted at a group of interest |
| Abadi, M. H., Shamblen, S. R., Thompson, K., Collins, D. A., Johnson, K., Influence of risk and protective factors on substance use outcomes across developmental periods: a comparison of youth and young adults, <i>Substance Use & Misuse</i> , 46, 1604-12, 2011 | No drug misuse prevention interventions described |
| Abdon, J. G., Wallin, E., Andreasson, S., Long-term effects of a community-based intervention: 5-year follow-up of 'Clubs against Drugs', <i>Addiction</i> , 106, 1997-2004, 2011 | Out of scope (relates to nightclub doormen identifying and barring drug users, not preventing/reducing their use) |
| Acri, M.C., Gogel, L. P., Pollock, M., Wisdom, J. P., What adolescents need to prevent relapse after treatment for substance abuse: A comparison of youth, parent, and staff perspectives, <i>Journal of Child & Adolescent Substance Abuse</i> , 21, 117-129, 2012 | Relapse prevention |
| Adelman, H. S., Creating School and Community Partnerships for Substance Abuse Prevention Programs, <i>Journal of Primary Prevention</i> , 23, Spr-369, 2003 | Study design (not primary research or a systematic review) |
| Adfam, Drug and alcohol prevention: intergenerational factors and the role of the family, 12, 2015 | Not primary research |
| Advisory Council On Misuse Of Drugs, Advisory Council on the Misuse of Drugs response to drug strategy consultation 2010, 20p., 2010 | Not primary research (response to a government consultation) |
| Agerwala, S. M., McCance-Katz, E. F., Integrating screening, brief intervention, and referral to treatment (SBIRT) into clinical practice settings: a brief review, <i>Journal of psychoactive drugs</i> , 44, 307-17, 2012 | SBIRT study - includes universal screening |
| Ahmed, S. H., Escalation of drug use, <i>Animal models of drug addiction.</i> , 267-292, 2011 | Not an effectiveness study of a drug misuse prevention intervention |
| Ait-Daoud, N., Bashir, M., Women and substance abuse: health considerations and recommendations, <i>CNS spectrums</i> , 16, 37-47, 2011 | Does not meet systematic review criteria |
| Akram, Y., Copello, A., Moore, D., Family-based interventions for substance misuse: a systematic review of systematic reviews--protocol, <i>Systematic Reviews</i> , 3, 90, 2014 | Protocol |
| Aktan, G., Kumpfer, K.L., Turner, C., The Safe Haven program: effectiveness of a family skills training program for substance abuse prevention with inner city African American families, <i>Int J Addict</i> , 31, 158-175, | No relevant outcome data reported |
| Ali-Northcott, L., Substance abuse, <i>Counseling Muslims: Handbook of mental health issues and interventions.</i> , 355-382, 2012 | Paper unavailable |
| Allara, E., Ferri, M., Bo, A., Gasparrini, A., Faggiano, F., Are mass-media campaigns effective in preventing drug use? A Cochrane systematic review and meta-analysis, <i>BMJ open</i> , 5, 2015 | Systematic review but not clear if any included interventions were targeted at a group of interest |
| Allott, R., Paxton, R., Leonard, R., Drug education: a review of British Government policy and evidence on effectiveness, <i>Health Education Research</i> , 14, 491-505, 1999 | Does not meet systematic review criteria |
| Allsop, S., Fanning the flame of prevention effort, <i>Drug and Alcohol Review</i> , 31, 729-30, 2012 | Not primary research (editorial) |
| Altena, A. M., Brilleslijper-Kater, S. N., Wolf J. L. M., Effective Interventions for Homeless Youth: A Systematic Review, <i>American Journal of Preventive Medicine</i> , 38, 637-645, 2010 | Systematic review but only 73% of included studies meet our eligibility criteria |
| Amato, L., Mitrova, Z., Davoli, M., Cochrane systematic reviews in the field of addiction: What's there and what should be, <i>Drug and Alcohol Dependence</i> , 113, 96-103, 2011 | Not primary research (overview of Cochrane reviews undertaken in field of addiction) |
| American College of Obstetricians and Gynecologists, Committee on Gynecologic Practice, ACOG Committee Opinion No. 484: Performance enhancing anabolic steroid abuse in women, <i>Obstetrics and gynecology</i> , 117, 1016-8, 2011 | No drug misuse prevention interventions described |

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Excluded studies

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| Ames, S. L., Krank, M., Grenard, J. L., Sussman, S., Stacy, A. W., Prevention education effects on fundamental memory processes, <i>Evaluation & the health professions</i> , 35, 416-39, 2012 | Universal school intervention (alternative/continuation high schools) |
| Amodeo, M., Lopez, L. M., Amaro, A., Social work interventions with alcohol and other drug problems, <i>Theory and practice in clinical social work</i> (2nd ed.), 525-559, 2011 | Paper unavailable |
| Anderson-Butcher, D., Cash, S. J., Participation in Boys and Girls Clubs, vulnerability, and problem behaviors, <i>Children and Youth Services Review</i> , 32, 672-678, 2010 | No drug misuse prevention interventions described |
| Andes, S., Wyatt, J., Kiss, A., Mucellin, M., Employing strategic campus-community partnerships to address nonmedical prescription drug use on college and university campuses, <i>Journal of Social Work Practice in the Addictions</i> , 14, 27-41, 2014 | Not clear if intervention is targeted at a group of interest |
| Andreasson, S., Premature adoption and dissemination of prevention programmes, <i>Addiction (Abingdon, England)</i> , 105, 583-4, 2010 | Not primary research (commentary paper) |
| Andretta, I., da Silva Oliveira, M., Motivational Interview with Adolescent Drug Users who Have an Infringement, <i>Psicologia-Reflexao E Critica</i> , 24, 218-226, 2011 | Portuguese language paper |
| Anon., Summaries for patients: primary care interventions to reduce drug use in children and adolescents: U.S. Preventive Services Task Force recommendation statement, <i>Annals of Internal Medicine</i> , 160, 2014 | Not primary research (patient summary of an evidence review) |
| Anthony, J. C., Steppingstone and gateway ideas: a discussion of origins, research challenges, and promising lines of research for the future, <i>Drug and Alcohol Dependence</i> , 123 Suppl 1, S99-S104, 2012 | Not primary research (editorial) |
| Argoff, C. E., Kahan, M., Sellers, E. M., Preventing and managing aberrant drug-related behavior in primary care: systematic review of outcomes evidence (Provisional abstract), <i>Database of Abstracts of Reviews of Effects</i> , 119-134, 2014 | Does not meet systematic review criteria |
| Arnaud, N., Broning, S., Drechsel, M., Thomasius, R., Baldus, C., Web-based screening and brief intervention for poly-drug use among teenagers: study protocol of a multicentre two-arm randomized controlled trial, <i>BMC Public Health</i> , 12, 826, 2012 | Protocol |
| Arnold, E. M., Rotheram-Borus, M. J., Comparisons of prevention programs for homeless youth, <i>Prevention Science</i> , 10, 76-86, 2009 | Does not meet systematic review criteria |
| Arnold, E. M., Walsh, A. K., Oldham, M. S., Rapp, C. A., Strengths-based case management: Implementation with high-risk youth, <i>Families in Society-the Journal of Contemporary Social ServicesFam. Soc.</i> , 88, 86-94, 2007 | No relevant outcome data reported |
| Arthur, M.W., Hawkins, D., Brown, E. C., Briney, J. S., Oesterle, S., Implementation of the Communities That Care prevention system by coalitions in Community Youth Development Study, <i>Journal of Community Psychology</i> , 38, 245-258, 2010 | Not targeted at a group of interest |
| ASHP statement on the pharmacist's role in substance abuse prevention, education, and assistance, <i>American Journal of Health-System Pharmacy</i> , 71, 243-246, 2014 | Not primary research (position statement) |
| Ashton, J. R., Seymour, H., Public Health and the origins of the Mersey Model of Harm Reduction, <i>The International journal on drug policy</i> , 21, 94-6, 2010 | Not primary research (commentary paper only) |
| August, G. J., Realmuto, G. M., Winters, K. C., Hektner, J. M., Prevention of adolescent drug abuse: Targeting high-risk children with a multifaceted intervention model - The Early Risers "Skills for Success" Program, <i>Applied & Preventive Psychology</i> , 10, 135-154, 2001 | No relevant outcome data reported |
| Austin, A. M., Macgowan, M. J., Wagner, E. F., Effective family-based interventions for adolescents with substance use problems: a systematic review (Provisional abstract), <i>Research on Social Work Practice</i> , 15, 67-83, 2005 | Treatment rather than prevention |
| Babbin, S. F., Velicer, W. F., Paiva, An. L., Brick, L. A. D., Redding, C. A., Replicating cluster subtypes for the prevention of adolescent smoking and alcohol use, <i>Addictive Behaviors</i> , 40, 57-65, 2015 | No drug misuse prevention intervention described |
| Babor, T. F., Drug policy and the public good: A summary of the book, <i>Addiction</i> , 105, 1137-1145, 2010 | Not primary research (book summary) |
| Babor, T. F., McRee, B. G., Kassebaum, P. A., Grimaldi, P. L., Ahmed, K., Bray, J., Screening, Brief Intervention, and Referral to Treatment (SBIRT): toward a public health approach to the management of substance abuse, <i>Substance Abuse</i> , 28, 7-30, 2007 | SBIRT study - includes universal screening |
| Backer, T. E., The failure of success: Challenges of disseminating effective substance abuse prevention programs, <i>Journal of Community Psychology</i> , 28, 363-373, 2000 | Not targeted at a group of interest |

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Excluded studies

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| Baer, J. S., Peterson, P. L., Wells, E. A., Rationale and design of a brief substance use intervention for homeless adolescents, <i>Special Issue: Clinical harm reduction.</i> , 12, 317-334, 2004 | Treatment rather than prevention |
| Bagley, C., Pritchard, C., The reduction of problem behaviours and school exclusion in at-risk youth: An experimental study of school social work with cost-benefit analyses, <i>Child & Family Social Work</i> , 3, 219-226, 1998 | Not primarily a drug misuse prevention intervention |
| Bagoien, G., Bjorngaard, J. H., Ostensen, C., Reitan, S. K., Romundstad, Pal, Morken, Gunnar, The effects of motivational interviewing on patients with comorbid substance use admitted to a psychiatric emergency unit - a randomised controlled trial with two year follow-up, <i>BMC Psychiatry</i> , 13, 2013 | Treatment rather than prevention |
| Bahr, S. J., Drug use, abuse, and addiction, <i>The Routledge handbook of deviant behavior.</i> , 290-297, 2011 | Not primary research (overview/discussion piece) |
| Baker, A., Lewin, T. J., Bradley, A. C., Group intervention for coexisting psychosis and substance use disorders in rural Australia: Outcomes over 3 years, <i>Australian and New Zealand Journal of Psychiatry</i> , 41, 501-508, 2007 | Treatment rather than prevention |
| Baker, A., Turner, A., Kay-Lambkin, F. J., Lewin, T. J., The long and the short of treatments for alcohol or cannabis misuse among people with severe mental disorders, <i>Addictive Behaviors</i> , 34, 852-858, 2009 | Treatment rather than prevention |
| Baldus, C., Miranda, A., Weymann, N., Reis, O., More, K., Thomasius, R., "CAN Stop"--implementation and evaluation of a secondary group prevention for adolescent and young adult cannabis users in various contexts--study protocol, <i>BMC Health Services Research</i> , 11, 80, 2011 | Protocol |
| Ballantyne, J.C., Kolodny, A., Preventing prescription opioid abuse, <i>Jama</i> , 313, 1059, 2015 | Not primary research (letter to the editor) |
| Banerjee, S. C., Greene, K., Role of transportation in the persuasion process: Cognitive and affective responses to antidrug narratives, <i>Journal of health communication</i> , 17, 564-581, 2012 | Not targeted at a group of interest |
| Banwell, C., Denton, B., Bammer, G., Programmes for the children of illicit drug-using parents: issues and dilemmas, <i>Drug and Alcohol Review</i> , 21, 381 - 386, 2002 | Does not meet systematic review criteria |
| Barnard, M., McKeganey, N., The impact of parental problem drug use on children: what is the problem and what can be done to help?, <i>Addiction</i> , 99, 552-559, 2004 | Does not meet systematic review criteria |
| Barnett, E. M., Motivational interviewing with adolescent substance users: A closer look, <i>Dissertation Abstracts International: Section B: The Sciences and Engineering</i> , 74, No-Specified, 2014 | Universal school intervention (alternative/continuation high schools) |
| Barnett, E., Moyers, T. B., Sussman, S., Smith, C., Rohrbach, L. A., Sun, P., Spruijt-Metz, D., From counselor skill to decreased marijuana use: does change talk matter?, <i>Journal of Substance Abuse Treatment</i> , 46, 498-505, 2014 | Not targeted at a group of interest |
| Barnett, E., Spruijt-Metz, D., Unger, J. B., Sun, P., Rohrbach, L. A., Sussman, S., Boosting a teen substance use prevention program with motivational interviewing, <i>Substance Use & Misuse</i> , 47, 418-28, 2012 | Universal school intervention (alternative/continuation high schools) |
| Barnett, E., Sussman, S., Smith, C., Rohrbach, L. A., Spruijt-Metz, D., Motivational Interviewing for adolescent substance use: A review of the literature, <i>Addictive Behaviors</i> , 37, 1325-1334, 2012 | Systematic review but only 41% of included studies meet our eligibility criteria. |
| Barsch, G., Thoughts on the prevention of addiction, <i>Familiendynamik</i> , 39, 206-207, 2014 | German language paper |
| Bavarian, N., Lewis, K. M., Acock, A., Geldhof, J., Vuchinich, S., DuBois, D., Preventing adolescent alcohol and other drug use: Mediation results from a longitudinal randomized trial of a social emotional character program, <i>Alcoholism, clinical and experimental research</i> , 38, 40a, 2014 | Conference abstract |
| Beardslee, W. R., Chien, P. L., Bell, C. C., Prevention of mental disorders, substance abuse, and problem behaviors: a developmental perspective, <i>Psychiatric services (Washington, D.C.)</i> , 62, 247-54, 2011 | Study design (not primary research or a systematic review) |
| Beardslee, W. R., Martin, J. L., Children of parents with psychiatric and substance abuse disorders, <i>Dulcan's textbook of child and adolescent psychiatry.</i> , 623-635, 2010 | Paper unavailable |
| Becker, J., Haug, S., Kraemer, T., Schaub, M. P., Feasibility of a group cessation program for co-smokers of cannabis and tobacco, <i>Drug and Alcohol Review</i> , 34, 418-26, 2015 | Treatment rather than prevention |
| Becker, S. J., Curry, J. F., Outpatient interventions for adolescent substance abuse: A quality of evidence review, <i>Journal of Consulting and Clinical Psychology</i> , 76, 534-543, 2008 | Treatment rather than prevention |

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Excluded studies

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| Beharie, N., et al, The HOPE Family Project: a family-based group intervention to reduce the impact of homelessness on HIV/STI and drug risk behaviors, <i>Social Work with Groups</i> , 34, 61-78, 2011 | No drug-related outcomes reported |
| Bekkering, G. E., Aertgeerts, B., Asueta-Lorente, J. F., Autrique, M., Goossens, M., Smets, K., van Bussel, J. C. H., Vanderplasschen, W., Van Royen, P., Hannes, K., Practitioner review: evidence-based practice guidelines on alcohol and drug misuse among adolescents: a systematic review, <i>Journal of child psychology and psychiatry, and allied disciplines</i> , 55, 3-21, 2014 | Systematic review of guidelines, not primary studies |
| Belcher, H. M. E., Shinitzky, H. E., Substance abuse in children: Prediction, protection, and prevention, <i>Archives of Pediatrics & Adolescent Medicine</i> , 152, 952-960, 1998 | Does not meet systematic review criteria |
| Bellis, M. A., Hughes, K., Lowey, H., Healthy nightclubs and recreational substance use - From a harm minimisation to a healthy settings approach, <i>Addictive Behaviors</i> , 27, 1025-1035, 2002 | Study design (discussion paper) |
| Bender, K., Tripodi, S., Rock, J., Adolescents, <i>Social work practice in the addictions.</i> , 183-198, 2013 | Not targeted at a group of interest |
| Bender, K., Tripodi, S., Sarteschi, C., Vaughn, M., A meta-analysis of interventions to reduce adolescent Cannabis use, <i>Research on Social Work Practice</i> , 21, 153-164, 2011 | Treatment rather than prevention |
| Bentley Rubio, C. M., Facilitators and barriers to implementing environmental prevention strategies of drug-free communities support program grants, <i>Dissertation Abstracts International: Section B: The Sciences and Engineering</i> , 74, No-Specified, 2013 | Paper unavailable |
| Berg, R. C., Underland, V., The effectiveness of primary interventions to prevent the use of tobacco, alcohol and other drugs among children and adolescents (Structured abstract), <i>Health Technology Assessment Database</i> , 2012 | Norwegian language paper |
| Bermudez Parsai, M., Castro, F. G., Marsiglia, F. F., Harthun, M. L., Valdez, H., Using community based participatory research to create a culturally grounded intervention for parents and youth to prevent risky behaviors, <i>Prevention science : the official journal of the Society for Prevention Research</i> , 12, 34-47, 2011 | Not targeted at a group of interest |
| Bernstein, E., Edwards, E., Dorfman, D., Heeren, T., Bliss, C., Bernstein, J., Screening and Brief Intervention to Reduce Marijuana Use Among Youth and Young Adults in a Pediatric Emergency Department, <i>Academic Emergency Medicine</i> , 16, 1174-1185, 2009 | SBIRT study - includes universal screening |
| Bernstein, S. L., D'Onofrio, G., A promising approach for emergency departments to care for patients with substance use and behavioral disorders, <i>Health affairs (Project Hope)</i> , 32, 2122-8, 2013 | SBIRT study - includes universal screening |
| Bishop, D. C., Dusenbury, L., Pankratz, M. M., Hansen, W. B., Promoting quality of program delivery via an internet message delivery system, <i>Journal of Drug Education</i> , 43, 235-54, 2013 | Universal schools paper (evaluates how an IT system can improve delivery of interventions; tested primarily on universal schools interventions) |
| Bishop, J., Whitear, B. A. and, Brown, S., A review of substance use education in fifty secondary schools in South Wales, <i>Health Education Journal</i> , 60, pp164, 2001 | Not targeted at a group of interest |
| Black, D. R., Tobler, N. S., Sciacca, J. P., Peer Helping/Involvement: An Efficacious Way to Meet the Challenge of Reducing Alcohol, Tobacco, and Other Drug Use Among Youth?, <i>Journal of School Health</i> , 68, 87-93, 1998 | Does not meet systematic review criteria |
| Black, M. M., Krishnakumar, A., Children in low-income, urban settings - Interventions to promote mental health and well-being, <i>American Psychologist</i> , 53, 635-646, 1998 | Does not meet systematic review criteria |
| Blake, S. M., Amaro, H., Schwartz, P. M., Flinchbaugh, L. J., A review of substance abuse prevention interventions for young adolescent girls, <i>Journal of Early Adolescence</i> , 21, 294-324, 2001 | Does not meet systematic review criteria |
| Blunk, M., Williams, K., Early identification, treatment, and interventions for the prevention of benzodiazepine dependence with anxiety disorders, <i>Mental Health and Substance Use: dual diagnosis</i> , 4, 277-292, 2011 | Out of scope (prevention of benzodiazepine dependence in patients legally prescribed them) |
| Bodin, M., Leifman, H., A randomized effectiveness trial of an adult-to-youth mentoring program in Sweden, <i>Addiction Research & Theory</i> , 19, 438-447, 2011 | Not targeted at a group of interest |
| Bohnert, K. M., Anthony, J. C., Breslau, N., Parental monitoring at age 11 and subsequent onset of cannabis use up to age 17: results from a prospective study, <i>Journal of Studies on Alcohol and Drugs</i> , 73, 173-7, 2012 | No drug misuse prevention intervention described |

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Excluded studies

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| Bolier, L., Voorham, L., Monshouwer, K., van, H. N., Bellis, M., Alcohol and drug prevention in nightlife settings: A review of experimental studies, <i>Substance Use & Misuse</i> , 46, 1569-1591, 2011 | Systematic review but only 11% of included studies may meet our eligibility criteria |
| Bonell, C., Jamal, F. Harden A. Wells H. Parry W. Fletcher A. Petticrew, Systematic review of the effects of schools and school environment interventions on health: evidence mapping and synthesis, <i>Public Health Research</i> , 1, 1-319, 2013 | Systematic review but 0 included studies meet our eligibility criteria |
| Bonnell, C., Thomas, J., Campbell, R., Murphy, S., Fletcher, A., The effects of positive youth development interventions on substance use, violence and inequalities: systematic review of theories of change, processes and outcomes, 2015 | Protocol |
| Bonsack, C., Manetti, S. G., Favrod, J., Montagrin, Y., Besson, J., Bovet, P., Conus, P., Motivational Intervention to Reduce Cannabis Use in Young People with Psychosis: A Randomized Controlled Trial, <i>Psychotherapy and Psychosomatics</i> , 80, 287-297, 2011 | Treatment rather than prevention |
| Borsari, B., The addiction syndrome and the college setting: Prevention, <i>APA addiction syndrome handbook, Vol. 2: Recovery, prevention, and other issues.</i> , 247-269, 2012 | Paper unavailable |
| Botvin, G. J., Glantz, M. D., Hartel, C. R., Adolescent drug abuse prevention: Current findings and future directions, 1999 | Study design (not primary research or a systematic review) |
| Botvin, G. J., Griffin, K. W., Life Skills Training: A competence enhancement approach to tobacco, alcohol, and drug abuse prevention, <i>Handbook of adolescent drug use prevention: Research, intervention strategies, and practice.</i> , 177-196, 2015 | Paper unavailable |
| Botvin, G. J., Griffin, K. W., Life Skills Training: Empirical Findings and Future Directions, <i>The journal of primary prevention</i> , 25, 211-232, 2004 | Universal school intervention |
| Botvin, G. J., Griffin, K. W., Advances in the science and practice of prevention: Targeting individual-level etiologic factors and the challenge of going to scale, <i>Handbook of drug use etiology: Theory, methods, and empirical findings.</i> , 631-650, 2010 | Book - no relevant data to extract |
| Botvin, G. J., Griffin, K. W., Life skills training: preventing substance misuse by enhancing individual and social competence, <i>New directions for youth development</i> , 2014, 57-11, 2014 | Study design (summary/overview piece; no extractable effectiveness or acceptability data) |
| Botvin, G. J., Griffin, K. W., School-based programmes to prevent alcohol, tobacco and other drug use, <i>International review of psychiatry (Abingdon, England)</i> , 19, 607-15, 2007 | Review of universal school interventions |
| Botvin, G. J., Griffin, K. W., Toward the development of preventive interventions to reduce HRSB, HIV/AIDS, and multiple problem behaviors, <i>Prevention Science</i> , 15, S81-S83, 2014 | Not primary research (editorial) |
| Botvin, G. J., Preventing drug abuse in schools: Social and competence enhancement approaches targeting individual-level etiologic factors, <i>Addictive Behaviors</i> , 25, 887-897, 2000 | Does not meet systematic review criteria |
| Bradley, E. G., The effects of a school-based motivational intervention on adolescent substance abuse, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 70, 1917, 2009 | Not all participants fall into a target group of interest |
| Bratt, C., Guardians to counter adolescent drug use? Limitations of a routine activities approach, <i>Youth & Society</i> , 39, 385-405, 2008 | Not targeted at a group of interest |
| Braxter, B. J., Puskar, K., Mitchell, A. M., Hagle, H., Gotham, H., Terry, M. A., Nursing students' experiences with screening, brief intervention, and referral to treatment for substance use in the clinical/hospital setting, <i>Journal of Addictions Nursing</i> , 25, 122-9, 2014 | SBIRT study - includes universal screening |
| Bray, J. W., Mallonee, E., Dowd, W., Program- and service-level costs of seven screening, brief intervention, and referral to treatment programs, <i>Substance abuse and rehabilitation</i> , 5, 63-73, 2014 | SBIRT study - includes universal screening |
| Britton, W. B., Bootzin, R. R., Cousins, J. C., Hasler, B. P., Peck, T., Shapiro, S. L., The contribution of mindfulness practice to a multicomponent behavioral sleep intervention following substance abuse treatment in adolescents: a treatment-development study, <i>Substance Abuse</i> , 31, 86-97, 2010 | Relapse prevention (participants have already completed an outpatient substance abuse treatment programme) |

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Excluded studies

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| Brody, G. H., Chen, Y. F., Kogan, S. M., Yu, T., Molgaard, V. K., DiClemente, R. J., Wingood, G. M., Family-centered program deters substance use, conduct problems, and depressive symptoms in black adolescents, <i>Pediatrics</i> , 129, 108-115, 2012 | Not targeted at a group of interest |
| Brody, G. H., Yu, T., Chen, Y. F., Kogan, S. M., Smith, K., The Adults in the Making program: Long-term protective stabilizing effects on alcohol use and substance use problems for rural African American emerging adults, <i>Journal of Consulting and Clinical Psychology</i> , 80, 17-28, 2012 | Not primarily a drug misuse prevention intervention |
| Broning, S., Kumpfer, K., Kruse, K., Sack, P. M., Schaunig-Busch, I., Ruths, S., Moesgen, D., Pflug, E., Klein, M., Thomasius, R., Selective prevention programs for children from substance-affected families: A comprehensive systematic review, <i>Substance Abuse Treatment, Prevention, & Policy</i> , 7, 23-40, 2012 | Systematic review but only a maximum of 46% of included studies meet our eligibility criteria |
| Brown, E. C., Hawkins, J. D., Arthur, M. W., Briney, J.S., Fagan, A. A., Prevention service system transformation using Communities That Care, <i>Journal of Community Psychology</i> , 39, 183-201, 2011 | Not targeted at a group of interest |
| Brown, E. C., Hawkins, J. D., Rhew, I.C., Shapiro, V. B., Abbott, R. D., Oesterle, S., Arthur, M. W., Briney, J. S., Catalano, R. F., Prevention system mediation of communities that care effects on youth outcomes, <i>Prevention science : the official journal of the Society for Prevention Research</i> , 15, 623-32, 2014 | Not targeted at a group of interest |
| Brown, J. H., Caston, M. D., On becoming "at risk" through drug education: How symbolic policies and their practices affect students, <i>Evaluation Review</i> , 19, 451-492, 1995 | Universal schools paper |
| Brown, J. H., Clarey, A. M., The social psychology of disintegrative shaming in education, <i>Journal of Drug Education</i> , 42, 229-53, 2012 | Not targeted at a group of interest |
| Brown, K. J., Block, A. J., Evaluation of Project Chrysalis: A school-based intervention to reduce negative consequences of abuse, <i>Special Issue: Substance abuse prevention among young female adolescents.</i> , 21, 325-353, 2001 | Not all participants fall into a target group of interest |
| Buckley, E. J., White, D. G., Systematic review of the role of external contributors in school substance use education, 107, 42 - 62, 2007 | Review of universal school interventions |
| Buhler, A., Thrul, B., Prevention of addictive behaviours, <i>Research and Practice in Health Promotion</i> , Volume 46, Federal Centre for Health Education (BZgA), 2013 [Translated and published in English in 2015] | Systematic review but not possible to disaggregate findings related to drug misuse prevention among target groups of interest |
| Bumbarger, B. K., Understanding and promoting treatment integrity in prevention, <i>Treatment integrity: A foundation for evidence-based practice in applied psychology.</i> , 35-54, 2014 | Paper unavailable |
| Buncher, R. M., The replicability and transferability of a school-based substance abuse prevention program to a community-based setting, <i>Dissertation Abstracts International: Section B: The Sciences and Engineering</i> , 57, 6559, 1997 | Dissertation abstract |
| Burrus, B., Leeks, K. D., Sipe, T. A., Dolina, S., Soler, R., Elder, R., Barrios, L., Greenspan, A., Fishbein, D., Lindegren, M. L., Achrekar, A., Dittus, P., Person-to-person interventions targeted to parents and other caregivers to improve adolescent health: A community guide systematic review, <i>American Journal of Preventive Medicine</i> , 42, 316-326, 2012 | Systematic review but only a maximum of 33% of included studies meet our eligibility criteria |
| Byrnes, H. F., Miller, B. A., Aalborg, A. E., Keagy, C. D., The relationship between neighborhood characteristics and recruitment into adolescent family-based substance use prevention programs, <i>The journal of behavioral health services & research</i> , 39, 174-89, 2012 | Not targeted at a group of interest |
| Byrnes, H. F., Miller, B. A., Laborde, N., A comparison of maternal outcomes from an alcohol, tobacco, and other drug prevention program for mothers choosing an intervention versus being randomized, <i>Health education & behavior : the official publication of the Society for Public Health Education</i> , 40, 206-15, 2013 | Not targeted at a group of interest |
| CADTH, Prevention strategies for substance misuse: a review of the clinical evidence, Ottawa: Canadian Agency for Drugs and Technologies in Health (CADTH), 2012 | Systematic review but 0 included studies meet our eligibility criteria |
| Calafat, A., Juan, M., Duch, M.A., Preventive interventions in nightlife: a review, <i>Adicciones</i> , 21, 387-413, 2009 | Does not meet systematic review criteria |
| Carney, T., Myers, B. J., Louw, J., Okwundu, C. I., Brief school-based interventions and behavioural outcomes for substance-using adolescents, <i>Cochrane Database of Systematic Reviews</i> , 2014 | Systematic review but only a maximum of 50% of included studies meet our eligibility criteria |
| Carney, T., Myers, B., Effectiveness of early interventions for substance-using adolescents: Findings from a systematic review and meta-analysis, <i>Substance Abuse Treatment, Prevention, & Policy</i> , 7, 25, 2012 | Systematic review but only 67% of included studies meet our eligibility criteria |

Drug misuse prevention: Appendix 2 to Evidence Review 1

Excluded studies

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| Catalano, R. F., Haggerty, K. P., Gainey, R. R., Hoppe, M. J., Reducing parental risk factors for children's substance misuse: Preliminary outcomes with opiate-addicted parents, <i>Substance Use & Misuse</i> , 32, 699-721, 1997 | No relevant child outcomes reported |
| Catford, J., Illicit drugs: effective prevention requires a health promotion approach, <i>Health Promotion International</i> , 16, 107-110, 2001 | Not primary research (editorial) |
| Chad Werch, C. E., Bian, H., DiClemente, C. C., Moore, M. J., Thombs, D., Ames, S. C., Huang, I. C., Pokorny, S., A brief image-based prevention intervention for adolescents, <i>Psychology of Addictive Behaviors</i> , 24, 170-175, 2010 | Not targeted at a group of interest |
| Chamberlain, P., Leve, L. D., Smith, D. K., Preventing behavior problems and health-risking behaviors in girls in foster care, <i>International Journal of Behavioral Consultation and Therapy</i> , 2, 518-530, 2006 | No relevant outcome data reported |
| Champion, K. E., Newton, N. C., Barrett, E. L., Teesson, M., A systematic review of school-based alcohol and other drug prevention programs facilitated by computers or the internet, <i>Drug and Alcohol Review</i> , 32, 115-23, 2013 | Review of universal school interventions |
| Chaney, M.I P., Brubaker, M. D., Addiction in LGBTQ communities: Influences, treatment, and prevention, Special Issue: Addiction in LGBTQ Communities: Influences, Treatment, and Prevention, 6, 234-236, 2012 | Not primary research (editorial piece) |
| Childers, J. W., Broyles, L. M., Hanusa, B. H., Kraemer, K. L., Conigliaro, J., Spagnoletti, C., McNeil, M., Gordon, A. J., Teaching the teachers: faculty preparedness and evaluation of a retreat in screening, brief intervention, and referral to treatment, Substance abuse : official publication of the Association for Medical Education and Research in Substance Abuse, 33, 272-7, 2012 | SBIRT study - includes universal screening |
| Children and Young People Now, Targeted help tackles substance misuse, <i>CHILDREN AND YOUNG PEOPLE NOW</i> , 30-31, 2013 | Paper unavailable |
| Cho, H. S., Hallfors, D. D., Sanchez, V., Evaluation of a high school peer group intervention for at-risk youth, <i>Journal of abnormal child psychology</i> , 33, 363-374, 2005 | Not all participants fall into a target group of interest |
| Chou, C. P., Montgomery, S., Pentz, M. A., Rohrbach, L. A., Johnson, C. A., Flay, B. R., MacKinnon, D. P., Effects of a community-based prevention program on decreasing drug use in high-risk adolescents, <i>American Journal of Public Health</i> , 88, 944-948, 1998 | Not targeted at a group of interest (subgroup analysis of a universal intervention) |
| Cisler, A. M., Assessing the methods of identification, the availability of school-based support, and the perceived barriers to providing support for children of substance abusing parents, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 74, No-Specified, 2014 | Paper unavailable |
| Clark, H. K., Ringwalt, C. L., Hanley, S., Shamblen, S. R., Flewelling, R. L., Hano, M. C., Project SUCCESS' effects on the substance use of alternative high school students, <i>Addictive Behaviors</i> , 35, 209-17, 2010 | Universal school intervention (alternative/continuation high schools) |
| Clark, H., Ringwalt, C., Shamblen, S., Hanley, S., Project success' effects on substance use-related attitudes and behaviors: A randomized controlled trial in alternative high schools, <i>Journal of Drug Education</i> , 41, 17-44, 2011 | Universal school intervention (alternative/continuation high schools) |
| Clark, R. J., Adolescent high risk factors for drug use, and development toward a school drug prevention program, <i>Dissertation Abstracts International: Section B: The Sciences and Engineering</i> , 55, 5562, 1995 | Dissertation abstract |
| Clarke, A. M., Morreale, S., Field, C. A., Hussein, Y., Barry, M. M., What works in enhancing social and emotional skills development during childhood and adolescence? A review of the evidence on the effectiveness of school based and out-of-school programmes in the UK, 236pp., 2015 | Systematic review but only 2% of included studies meet our eligibility criteria |
| Clettenberg, S. M., Lau, J., Bonsu, P., SAFE4Kids: promoting child well-being through interagency collaboration, <i>Protecting children</i> , 25, 37-49, 2010 | Paper unavailable |
| Clutterbuck, O. L., A case study of an effective substance abuse prevention program for adolescent males with emotional/behavioral disorders, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 62, 88, 2001 | Paper unavailable |
| Collier, C., Effects of comprehensive, multiple high-risk behaviors prevention program on high school students, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 75, No-Specified, 2014 | Not targeted at a group of interest |
| Coman, E. N., Lin, C. A., Suggs, S. L., lordache, E., McArdle, J. J., Barbour, R., Altering dynamic pathways to reduce substance use among youth: Changes achieved by dynamic coupling, <i>Addiction Research & Theory</i> , 22, 505-514, 2014 | Not targeted at a group of interest |
| Compton, P., Boyd, C. J., Gourlay, W., Prescription medication abuse: What do we do?, <i>Journal of Addictions Nursing</i> , 22, 5-7, 2011 | Not primary research (editorial) |

Drug misuse prevention: Appendix 2 to Evidence Review 1
Excluded studies

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| Conrod, P. J., Castellanos-Ryan, N., Strang, J., Brief, personality-targeted coping skills interventions and survival as a non-drug user over a 2-year period during adolescence, <i>Archives of General Psychiatry</i> , 67, 85-93, 2010 | Not targeted at a group of interest |
| Copeland, J., Application of technology in the prevention and treatment of substance use disorders and related problems: opportunities and challenges, <i>Substance Use & Misuse</i> , 46, 112-3, 2011 | Not primary research (editorial) |
| Coren, E., Hossain, R., Pardo Pardo, J., Veras, M. M. S., Chakraborty, K., Harris, H., Martin, A. J., Interventions for promoting reintegration and reducing harmful behaviour and lifestyles in street-connected children and young people, <i>Cochrane Database of Systematic Reviews</i> , 2013 | Systematic review but only 45% included studies meet our eligibility criteria |
| Coser, L. R., Tozer, K., Van Borek, N., Tzemis, D., Taylor, D., Saewyc, E., Buxton, J. A., Finding a voice: participatory research with street-involved youth in the youth injection prevention project, <i>Health promotion practice</i> , 15, 732-8, 2014 | No relevant outcome data reported |
| Couzin-Frankel, J., Public health. U.S. panel favors wider use of preventive drug treatment, <i>Science (New York, N.Y.)</i> , 327, 130-1, 2010 | Not primary research (news article) |
| Crowley, D. M., Evaluating the cost-effectiveness of real-world prevention: Approaches for estimating the efficiency of evidence-based programming, <i>Dissertation Abstracts International: Section B: The Sciences and Engineering</i> , 74, No-Specified, 2013 | Paper unavailable |
| Cuijpers, P., Effective ingredients of school-based drug prevention programs - A systematic review, <i>Addictive Behaviors</i> , 27, 1009-1023, 2002 | Review of universal school interventions |
| Cuijpers, P., Peer-led and adult-led school drug prevention: a meta-analytic comparison (Structured abstract), <i>Journal of Drug Education</i> , 32, 107-119, 2002 | Meta-analysis of universal school interventions |
| Cummings, M., Whitlock, A., Draper, M., Renschler, L., Bastian, K., Cox, C. C., Visker, J. D., "All Stars" for at-risk middle school students in an afterschool setting: A pilot program, <i>Journal of Substance Use</i> , 19, 444-447, 2014 | Not clear if intervention is targeted at a group of interest |
| Cunningham, P. B., Henggeler, S. W., Implementation of an empirically based drug and violence prevention and intervention program in public school settings, <i>Journal of Clinical Child Psychology</i> , 30, 221-32, 2001 | No relevant outcome data reported |
| Cushing, C. C., Jensen, C. D., Miller, M. B., Leffingwell, T. R., Meta-analysis of motivational interviewing for adolescent health behavior: efficacy beyond substance use, <i>Journal of Consulting and Clinical Psychology</i> , 82, 1212-1218, 2014 | Not related to drug misuse |
| Dale, H., Brassington, L., King, K., The impact of healthy lifestyle interventions on mental health and wellbeing: a systematic review, <i>Mental Health Review Journal</i> , 19(1), 1-26, 2014 | Systematic review but only 3% of included studies meet our eligibility criteria |
| Dallery, J., Jarvis, B., Marsch, L., Xie, H., Mechanisms of change associated with technology-based interventions for substance use, <i>Drug and Alcohol Dependence</i> , 150, 14-23, 2015 | Treatment rather than prevention |
| D'Amico, E. J., Fromme, K., Brief prevention for adolescent risk-taking behavior, <i>Addiction</i> , 97, 563-574, 2002 | Systematic review but only 4% of included studies meet our eligibility criteria |
| D'Amico, E. J., Fromme, K., Implementation of the Risk Skills Training Program: A brief intervention targeting adolescent participation in risk behaviors, <i>Cognitive and Behavioral Practice</i> , 7, 101-117, 2000 | Not targeted at a group of interest |
| D'Amico, E., Miles, J. N. V., Stern, S. A., Meredith, L. S., Brief motivational interviewing for teens at risk of substance use consequences: A randomized pilot study in a primary care clinic, <i>Journal of Substance Abuse Treatment</i> , 35, 53-61, 2008 | Intervention includes universal screening |
| Davidson, C., Neighbors, C., Hall, G., Hogue, A., Cho, R., Kutner, B., Morgenstern, J., Association of housing first implementation and key outcomes among homeless persons with problematic substance use, <i>Psychiatric services (Washington, D.C.)</i> , 65, 1318-24, 2014 | Housing First study - unclear if intervention contains any drug misuse prevention elements |
| Davoudi, M., Rawson, R. A., Screening, brief intervention, and referral to treatment (SBIRT) initiatives in California: notable trends, challenges, and recommendations, <i>Journal of psychoactive drugs, Suppl 6</i> , 239-48, 2010 | SBIRT study - includes universal screening |
| Dawe, S., The Focus on Families intervention may reduce the risk of substance use among male but not female offspring of substance users, <i>Evidence-based mental health</i> , 12, 84, 2009 | Not primary research (commentary) |
| Dawson Rose, C., Cuca, Y. P., Kamitani, E., Eng, S., Zepf, R., Draughon, J., Lum, P., Using Interactive Web-Based Screening, Brief Intervention and Referral to Treatment in an Urban, Safety-Net HIV Clinic, <i>AIDS and Behavior</i> , 19 Suppl 2, 186-93, 2015 | SBIRT study - includes universal screening |

Drug misuse prevention: Appendix 2 to Evidence Review 1

Excluded studies

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| Daykin, N., Orme, J., Evans, D., Salmon, D., McEachran, M., Brain, S., The impact of participation in performing arts on adolescent health and behaviour: a systematic review of the literature, <i>Journal of Health Psychology</i> , 13(2), 251-264, 2008 | Systematic review but only 14% of included studies meet our eligibility criteria |
| de Vet, R., van Luijckelaar, M. J. Brilleslijper-Kater S. N. Vanderplasschen W. Be, Effectiveness of case management for homeless persons: a systematic review, <i>American Journal of Public Health</i> , 103(10), e13-e26, 2013 | Outcome data inadequately reported |
| Deady, M., Teesson, M., Kay-Lambkin, F. J., Treatments for co-occurring depression and substance use in young people: a systematic review (Provisional abstract), <i>Database of Abstracts of Reviews of Effects</i> , 3-17, 2014 | Paper unavailable |
| DeGarmo, D. S., Reid, J. B., Fetrow, B. A., Fisher, P. A., Antoine, K. D., Ahart, B., Preventing child behavior problems and substance use: The pathways home foster care reunification intervention, <i>Journal of Child & Adolescent Substance Abuse</i> , 22, 388-406, 2013 | No relevant outcome data reported |
| DeGuire, C. A., Thyrum, E., Evaluating a community-based drug and alcohol prevention program for at-risk youth, <i>Journal of Offender Rehabilitation</i> , 29, 143-155, 1999 | Not targeted at a group of interest |
| Dell, C. A., Duncan, C. R., DesRoches, A., Bendig, M., Steeves, M., Turner, H., Quaife, T., McCann, C., Enns, B., Back to the basics: identifying positive youth development as the theoretical framework for a youth drug prevention program in rural Saskatchewan, Canada amidst a program evaluation, <i>Substance Abuse Treatment, Prevention, and Policy</i> , 8, 36, 2013 | No relevant outcome data reported |
| Dembo, R., Cervenka, K. A., Hunter, B., Wang, W., Engaging high risk families in community based intervention services, <i>Aggression and Violent Behavior</i> , 4, 41-58, 1999 | No relevant outcome data reported |
| Demers, J., French, D. C., Moore, D., The preliminary evaluation of a program to help educators address the substance use/prevention needs of special students, <i>Journal of Alcohol and Drug Education</i> , 46, 14, 2000 | Not targeted at a group of interest |
| D'Emidio-Caston, M., Brown, J. H., The other side of the story. Student narratives on the California Drug, Alcohol, and Tobacco Education Programs, <i>Evaluation Review</i> , 22, 95-117, 1998 | Not targeted at a group of interest |
| Dennhardt, A. A., Murphy, J. G., Prevention and treatment of college student drug use: A review of the literature, <i>Addictive Behaviors</i> , 38, 2607-18, 2013 | Does not meet systematic review criteria |
| Dent, C. W., Sussman, S., Hennesy, M., Galaif, E. R., Stacy, A. W., Moss, M., Craig, S., Implementation and process evaluation of a school-based drug abuse prevention program: Project Towards No Drug Abuse, <i>Journal of Drug Education</i> , 28, 361-75, 1998 | Universal school intervention (alternative/continuation high schools) |
| DeWit, David J., Steep, Babara, Silverman, Gloria, Stevens-Lavigne, Andrea, Ellis, Kathy, Smythe, Cindy, Rye, Barbara J., Braun, Kathy, Wood, Eileen, Evaluating an in-school drug prevention program for at-risk youth, <i>Alberta Journal of Educational Research</i> , 46, 117-133, 2000 | Not clear if intervention is targeted at a group of interest |
| Diamond, G. S., Liddle, H. A., Wintersteen, M. B., Dennis, M. L., Godley, S. H., Tims, F., Early therapeutic alliance as a predictor of treatment outcome for adolescent cannabis users in outpatient treatment, <i>The American journal on addictions / American Academy of Psychiatrists in Alcoholism and Addictions</i> , 15 Suppl 1, 26-33, 2006 | Treatment rather than prevention |
| Dishion, T. J., Andrews, D. W., PREVENTING ESCALATION IN PROBLEM BEHAVIORS WITH HIGH-RISK YOUNG ADOLESCENTS - IMMEDIATE AND 1-YEAR OUTCOMES, <i>Journal of Consulting and Clinical Psychology</i> , 63, 538-548, 1995 | Not all participants fall into a target group of interest |
| Dishion, T. J., Nelson, S. E., Kavanagh, K., The Family Check-Up with high-risk young adolescents: Preventing early-onset substance use by parent monitoring, <i>Behavior Therapy</i> , 34, 553-571, 2003 | Not targeted at a group of interest |
| D'Onofrio, G., Degutis, L. C., Integrating Project ASSERT: a screening, intervention, and referral to treatment program for unhealthy alcohol and drug use into an urban emergency department, <i>Academic emergency medicine : official journal of the Society for Academic Emergency Medicine</i> , 17, 903-11, 2010 | Includes universal screening |
| Ducker, S., Terry, J., Home to Homeroom program brings school nurses to the forefront of teen substance abuse prevention, <i>NASN school nurse (Print)</i> , 27, 329-30, 2012 | No relevant outcome data reported |
| Dunn, C., Deroo, L., Rivara, F. P., The use of brief interventions adapted from motivational interviewing across behavioral domains: a systematic review, <i>Addiction</i> , 96, 1725-1742, 2001 | Systematic review but only 41% of included studies meet our eligibility criteria |

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Excluded studies

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| Dusenbury, L., Falco, M., Lake, A., A review of the evaluation of 47 drug abuse prevention curricula available nationally, <i>Journal of School Health</i> , 67, 127-132, 1997 | Review of universal school interventions |
| Dusenbury, L., Hansen, W. B., Jackson-Newsom, J., Pittman, D. S., Wilson, C. V., Nelson-Simley, K., Ringwalt, C., Pankratz, M., Giles, S. M., Coaching to enhance quality of implementation in prevention, <i>Health Education</i> , 110, 43-60, 2010 | Universal school intervention |
| Dwinnells, R., SBIRT as a Vital Sign for Behavioral Health Identification, Diagnosis, and Referral in Community Health Care, <i>Annals of Family Medicine</i> , 13, 261-3, 2015 | SBIRT study - includes universal screening |
| Eley, S., Community-backed drug initiative in the UK: a review and commentary on evaluations, <i>Health and Social Care in the Community</i> , 10, 99-105, 2002 | Does not meet systematic review criteria |
| Elliott, L., Orr, L., Watson, L., Jackson, A., How Effective are Secondary Prevention Interventions for Young Drug Users?, <i>Family Therapy</i> , 32, 15-30, 2005 | Does not meet systematic review criteria |
| Elliott, L., Orr, L., Watson, L., Jackson, A., Secondary prevention interventions for young drug users: a systematic review of the evidence, <i>Adolescence</i> , 40, 1 - 22, 2005 | Systematic review but only 29% of included studies meet our eligibility criteria |
| Elmqvist, D., A systematic review of parent-oriented programs to prevent children's use of alcohol and other drugs, <i>Journal of Drug Education</i> , 25, 251-279, 1995 | Does not meet systematic review criteria |
| Embry, D. D., The Good Behavior Game: a best practice candidate as a universal behavioral vaccine, <i>Clinical Child and Family Psychology Review</i> , 5, 273-297, 2002 | Study design (not primary research or a systematic review) |
| Ennett, S. T., Tobler, N. S., Ringwalt, C. L., Flewelling, R. L., Marilyn, McShane, Frank, P. Williams, Iii., eds., How Effective Is Drug Abuse Resistance Education? A Meta-Analysis of Project DARE Outcome Evaluations, 60-67, 1997 | Not clear if intervention is targeted at a group of interest |
| Espad, J. P., Gonzalez, M. T., Orgiles, M., Lloret, D., Guillen-Riquelme, A., Meta-analysis of the effectiveness of school substance abuse prevention programs in Spain, <i>Psicothema</i> , 27, 2015 | Review of universal school interventions |
| Estee, S., Wickizer, T., He, L., Shah, M. F., Mancuso, D., Evaluation of the Washington state screening, brief intervention, and referral to treatment project: cost outcomes for Medicaid patients screened in hospital emergency departments, <i>Medical care</i> , 48, 18-24, 2010 | SBIRT study - includes universal screening |
| Evans, R., Parents involvement in drug prevention and education: A comparative study of programme effectiveness in the UK and USA, <i>Early Child Development and Care</i> , 150, 69-95, 1999 | Does not meet systematic review criteria |
| Evans-Whipp, T., Beyers, J. M., Lloyd, S., Lafazia, A. N., Toumbourou, J. W., Arthur, M. W., Catalano, R. F., A review of school drug policies and their impact on youth substance use, <i>Health Promotion International</i> , 19, 227 - 234, 2004 | Review of universal school interventions |
| Everson-Hock, E., Jones, R., Guillaume, L., Duenas, A., Goyder, L., Chilcott, J., Payne, N., The effect of support services for transition to adulthood/leaving care on the adult outcomes of looked after young people, 2011 | No drug misuse prevention interventions included |
| Fagan, A. A., Hanson, K., Briney, J. S., Hawkins, J. D., Sustaining the utilization and high quality implementation of tested and effective prevention programs using the communities that care prevention system, <i>American journal of community psychology</i> , 49, 365-77, 2012 | Not targeted at a group of interest |
| Fagan, A. A., Hawkins, J. D., Enacting preventive interventions at the community level: The Communities that Care Prevention System, <i>Handbook of adolescent drug use prevention: Research, intervention strategies, and practice.</i> , 343-360, 2015 | Paper unavailable |
| Fagan, A. A., Hawkins, J. D., Preventing substance use, delinquency, violence, and other problem behaviors over the life-course using the Communities That Care system, <i>Handbook of life-course criminology: Emerging trends and directions for future research.</i> , 277-296, 2013 | Paper unavailable |
| Fagan, A. A., Mihalic, S., Strategies for enhancing the adoption of school-based prevention of programs: Lessons learned from the blueprints for violence of prevention replications of the life skills training program, <i>Journal of Community Psychology</i> , 31, 235-253, 2003 | Not targeted at a group of interest |
| Faggiano, F., Galanti, M. R., Bohrn, K., Burkhart, G., Vigna-Taglianti, F., Cuomo, L., Fabiani, L., Panella, M., Perez, T., Siliquini, R., van der Kreeft, P., Vassara, M., Wiborg, G., Eu-Dap Study, Grp, The effectiveness of a school-based substance abuse prevention program: EU-Dap cluster randomised controlled trial, <i>Preventive Medicine</i> , 47, 537-543, 2008 | Universal school intervention |
| Faggiano, F., Minozzi, S., Versino, E., Buscemi, D., Universal school-based prevention for illicit drug use, <i>Cochrane Database of Systematic Reviews</i> , 2014, Art. No.: CD003020, 2014 | Review of universal school interventions |

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Excluded studies

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| Faggiano, F., Vigna-Taglianti, F. D., Versino, E., Zambon, A., Borraccino, A., Lemma, P., School-based prevention for illicit drugs use: A systematic review, <i>Preventive Medicine</i> , 46, 385-396, 2008 | Review of universal school interventions |
| Faggiano, F., Vigna-Taglianti, F., Burkhart, G.r, Bohrn, K., Cuomo, L., Gregori, D., Panella, M., Scatigna, M., Siliquini, R., Varona, L., van der Kreeft, P., Vassara, M., Wiborg, G., Galanti, M. R., E. U-Dap Study Grp, The effectiveness of a school-based substance abuse prevention program: 18-Month follow-up of the EU-Dap cluster randomized controlled trial, <i>Drug and Alcohol Dependence</i> , 108, 56-64, 2010 | Universal school intervention |
| Falck R., Carlson R., Wang J et al. (2004) Sources of information about MDMA (3,4-methylenedioxymethamphetamine): perceived accuracy, importance, and implications for prevention among young adult users. <i>Drug and Alcohol Dependence</i> 74: 45-54 | No relevant outcome data reported |
| Fals-Stewart, W., Fincham, F. D., Kelley, M. L., Substance-abusing parents' attitudes toward allowing their custodial children to participate in treatment: A comparison of mothers versus fathers, <i>Journal of Family Psychology</i> , 18, 666-671, 2004 | No relevant outcome data reported |
| Faulkner, N., McCambridge, J., Slym, R. L., Rollnick, S., It ain't what you do, it's the way that you do it: a qualitative study of advice for young cannabis users, <i>Drug and Alcohol Review</i> , 28, 129-134, 2009 | Study design (content/thematic analysis of advice sessions deemed to be most effective at engaging participants - no outcome data relating to effectiveness or acceptability of intervention itself) |
| Ferri, M., Bo, A., EMCDDA Best Practice Promotion in Europe: an internet based dissemination tool, <i>Adicciones</i> , 25, 3-6, 2013 | Not primary research (narrative piece describing the development of a tool for disseminating best practice on drug misuse prevention) |
| Ficaro, R. C., Webb, N. B., The many losses of children in substance-disordered families: Individual and group interventions, <i>Play therapy with children in crisis: Individual, group, and family treatment (2nd ed.)</i> , 294-317, 1999 | No relevant outcome data reported |
| Fischer, B., Gooch, J., Goldman, B., Kurdyak, P., Rehm, J., Nonmedical prescription opioid use and mental health and pain comorbidities: a narrative review, <i>Canadian journal of psychiatry. Revue canadienne de psychiatrie</i> , 56, 495-502, 2011 | Not primary research (overview/discussion paper) |
| Fitzpatrick-Lewis, D., Ganann, R., Krishnaratne, S., Ciliska, D., Kouyoumdjian, F., Hwang, S. W., Effectiveness of interventions to improve the health and housing status of homeless people: A rapid systematic review, <i>BMC Public Health</i> , 11, 638, 2011 | Systematic review but only a maximum of 50% of included studies meet our eligibility criteria |
| Flay, B. R., Approaches to substance use prevention utilizing school curriculum plus social environment change, <i>Addictive Behaviors</i> , 25, 861-885, 2000 | Does not meet systematic review criteria |
| Fletcher, A., Bonell, C., Hargreaves, J., School effects on young people's drug use: A systematic review of intervention and observational studies, <i>Journal of Adolescent Health</i> , 42, 209-220, 2008 | Review of universal school interventions |
| Forman, S. G., Kalafat, J., Substance Abuse and Suicide: Promoting Resilience against Self-Destructive Behavior in Youth, <i>School Psychology Review</i> , 27, 398-406, 1998 | Does not meet systematic review criteria |
| Fosco, G. M., Frank, J. L., Stormshak, E. A., Dishion, T. J., Opening the "Black Box": family check-up intervention effects on self-regulation that prevents growth in problem behavior and substance use, <i>Journal of school psychology</i> , 51, 455-68, 2013 | Not targeted at a group of interest |
| France, A., Crow, I., CTC: the story so far; an interim evaluation of Communities That Care, 44p.,bibliog., 2001 | Not targeted at a group of interest |
| France, A., Involving communities in the evaluation of programmes with 'at risk' children and young people, <i>Children & Society/Child. Soc.</i> , 15, pp39, 2001 | Not targeted at a group of interest |
| FRANK, FRANK action update: vulnerable young people: making the difference, 44pp., 2006 | No relevant outcome data reported |
| Frankel, A. J., The Case for Drug Prevention in Early Childhood, <i>Alcoholism Treatment Quarterly</i> , 16, 13-23, 1998 | Does not meet systematic review criteria |

Drug misuse prevention: Appendix 2 to Evidence Review 1
Excluded studies

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| Fraser, J., Vitaro, F., Les programmes de prevention des toxicomanies chez les jeunes: une recension critique des ecrits/(Programs of drug abuse prevention among young people: A critical review.), <i>Science et Comportement</i> , 24, 1-30, 1995 | French language paper |
| Freudenberg, N., Ramaswamy, M., Daniels, J., Crum, M., Ompad, D. C., Vlahov, D., Reducing Drug Use, Human Immunodeficiency Virus Risk, and Recidivism Among Young Men Leaving Jail: Evaluation of the REAL MEN Re-entry Program, <i>Journal of Adolescent Health</i> , 47, 448-455, 2010 | Out of scope (participants recruited while in prison) |
| Friedman, A. S., Terras, A., Glassman, K., Multimodel substance use intervention program for male delinquents, <i>Journal of Child & Adolescent Substance Abuse</i> , 11, 43-65, 2002 | Out of scope (participants in a custodial setting) |
| Froeschle, J. G., Smith, R. L., Ricard, R., The efficacy of a systematic substance abuse program for adolescent females, <i>Professional School Counseling</i> , 10, 498-505, 2007 | Not targeted at a group of interest |
| Gance-Cleveland, B., Mays, M. Z., School-based support groups for adolescents with a substance-abusing parent, <i>Journal of the American Psychiatric Nurses Association</i> , 14, 297-309, 2008 | Not all participants fall into a target group of interest |
| Gance-Cleveland, B., Qualitative evaluation of a school-based support group for adolescents with an addicted parent, <i>Nursing research</i> , 53, 379-386, 2004 | Not all participants fall into a target group of interest |
| Gates, P. J., Norberg, M. M., Copeland, J., Digiusto, E., Randomized controlled trial of a novel cannabis use intervention delivered by telephone, <i>Addiction (Abingdon, England)</i> , 107, 2149-58, 2012 | Treatment rather than prevention |
| Gates, S., McCambridge, J., Smith, L. A., Foxcroft, D., Interventions for prevention of drug use by young people delivered in non-school settings, <i>Cochrane Database of Systematic Reviews</i> , 2006 | Systematic review but only up to 35% of included studies meet our eligibility criteria |
| Ghitza, U. E., Gore-Langton, R. E., Lindblad, R. Shide, D., Subramaniam, G., Tai, B., Common data elements for substance use disorders in electronic health records: the NIDA Clinical Trials Network experience, <i>Addiction (Abingdon, England)</i> , 108, 3-8, 2013 | No drug misuse prevention interventions described |
| Gil, A. G., Wagner, E. F., Tubman, J. G., Culturally sensitive substance abuse intervention for Hispanic and African American adolescents: empirical examples from the Alcohol Treatment Targeting Adolescents in Need (ATTAIN) Project, <i>Addiction</i> , 99, 140-150, 2004 | Treatment rather than prevention |
| Giudice, E. L., Lewin, L. O., Welsh, C., Crouch, T. B., Wright, K. S., Delahanty, J., DiClemente, C. C., Online Versus In-Person Screening, Brief Intervention, and Referral to Treatment Training in Pediatrics Residents, <i>Journal of graduate medical education</i> , 7, 53-8, 2015 | Paper unavailable |
| Gmel, G., Gaume, J., Bertholet, N., Flueckiger, J., Daeppen, J., Effectiveness of a brief integrative multiple substance use intervention among young men with and without booster sessions, <i>Journal of Substance Abuse Treatment</i> , 44, 231-240, 2013 | Not clear if all participants fall into a target group of interest |
| Gorman, D. M., Is Project Towards No Drug Abuse (Project TND) an evidence-based drug and violence prevention program? A review and reappraisal of the evaluation studies, <i>The journal of primary prevention</i> , 35, 217-32, 2014 | Review of universal school intervention (including alternative/continuation high schools) |
| Gorman, D. M., The Irrelevance of Evidence in the Development of School-Based Drug Prevention Policy, 1986-1996, <i>Evaluation Review</i> , 22, 118-146, 1998 | Universal schools paper |
| Gottfredson, D. C., Gottfredson, G. D., Skroban, S., A multimodel school-based prevention demonstration, <i>Special Issue: Preventing adolescent substance abuse</i> , 11, 97-115, 1996 | Not targeted at a group of interest |
| Gottfredson, D. C., Wilson, D. B., Characteristics of effective school-based substance abuse prevention, <i>Prevention Science</i> , 4, Mar-38, 2003 | Universal schools paper |
| Gould, J. R., A prevention program for adolescent substance abuse: Self-agency, community participation and religious perception, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 64, 3718, 2004 | Dissertation abstract |
| Gray, E., McCambridge, J., Strang, J., The effectiveness of Motivational Interviewing delivered by youth workers in reducing drinking, cigarette and cannabis smoking among young people: Quasi-experimental pilot study, <i>Alcohol and Alcoholism</i> , 40, 535-539, 2005 | Not all participants fall into a target group of interest |
| Gray, P., Seddon, T., Using the Cumulative Strategies Model for drug abuse prevention: a small group analysis of the Choices Program, <i>Am J Health Stud</i> , 16 (1), 24-33, 2005 | Not all participants fall into a target group of interest |
| Grayson, R. C., Summer camp as an intervention for at-risk youth, <i>Dissertation Abstracts International: Section B: The Sciences and Engineering</i> , 62, 2535, 2001 | Paper unavailable |

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Excluded studies

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| Great Britain Home Office, Barnardo's, An evaluation of the Keighley Choices programme: October 2011 - March 2012, 82, 2013 | Not all participants fall into a target group of interest |
| Greber, R. A., Allen, K. M., Soeken, K. L., Solounias, B. L., Outcome of trauma patients after brief intervention by a substance abuse consultation service, The American journal on addictions / American Academy of Psychiatrists in Alcoholism and Addictions, 6, 38-47, 1997 | Treatment rather than prevention |
| Grenard, J. L., Ames, S. L., Pentz, M. A., Sussman, S., Motivational interviewing with adolescents and young adults for drug-related problems, International Journal of Adolescent Medicine and Health, 18, 53-67, 2006 | Does not meet systematic review criteria |
| Grenard, J. L., Ames, S. L., Wiers, R. W., Thush, C., Stacy, A. W., Sussman, S., Brief intervention for substance use among at-risk adolescents: A pilot study, Journal of Adolescent Health, 40, 188-191, 2007 | Universal school intervention (alternative/continuation high schools) |
| Griffin, B. A., Ramchand, R., Edelen, M. O., McCaffrey, D.I F., Morral, A. R., Associations between abstinence in adolescence and economic and educational outcomes seven years later among high-risk youth, Drug and Alcohol Dependence, 113, 118-24, 2011 | No drug misuse prevention intervention described |
| Griffin, K. W., Botvin, G. J., Evidence-based interventions for preventing substance use disorders in adolescents, Child and adolescent psychiatric clinics of North America, 19, 505-26, 2010 | Does not meet systematic review criteria |
| Griffin, K. W., Botvin, G. J., Nichols, T. R., Doyle, M. M., Effectiveness of a universal drug abuse prevention approach for youth at high risk for substance use initiation, Preventive Medicine, 36, 1-7, 2003 | Not targeted at a group of interest (subgroup analysis of a universal intervention) |
| Griffin, K. W., Botvin, G. J., Nichols, T. R., Effects of a school-based drug abuse prevention program for adolescents on HIV risk behavior in young adulthood, Prevention Science, 7, 103-112, 2006 | Not targeted at a group of interest (subgroup analysis of a universal intervention) |
| Griffin, K. W., Samuolis, J., Williams, C., Efficacy of a self-administered home-based parent intervention on parenting behaviors for preventing adolescent substance use, Journal of Child and Family Studies, 20, 319-325, 2011 | Not targeted at a group of interest |
| Griffith, K. N., Scheier, L. M., Did we get our money's worth? Bridging economic and behavioral measures of program success in adolescent drug prevention, International journal of environmental research and public health, 10, 5908-35, 2013 | Study design (methods paper describing approaches to economic evaluations of schools programmes; no actual effectiveness or cost-effectiveness data presented) |
| Grover, P. L., Preventing Substance Abuse among Children and Adolescents: Family-Centered Approaches. Reference Guide. Prevention Enhancement Protocols System (PEPS) Series, 1998 | No drug misuse prevention interventions described |
| Gryczynski, J., Mitchell, S. G., Peterson, T. R., Gonzales, A., Moseley, A., Schwartz, R. P., The relationship between services delivered and substance use outcomes in New Mexico's Screening, Brief Intervention, Referral and Treatment (SBIRT) Initiative, Drug and Alcohol Dependence, 118, 152-7, 2011 | SBIRT study - includes universal screening |
| Gulliver, A., Farrer, L., Chan, J. K. Y., Tait, R. J., Bennett, K., Calear, A. L., Griffiths, K. M., Technology-based interventions for tobacco and other drug use in university and college students: a systematic review and meta-analysis, Addiction science & clinical practice, 10, 5, 2015 | Systematic review but only 25% of included studies meet eligibility criteria |
| Gurganus, K. M., Butt, A. L., Kirchenbauer, C. M., Melkvik, C., Piatt, J., Hawkins, J., U'Ren, S., Onuorah, Y., Implementing the Regional Epidemiological Outcomes Workgroup (REOW) in the State of Oklahoma for Substance Abuse Prevention: An ODMHSAS Project, Community mental health journal, 51, 535-9, 2015 | No relevant outcome data reported |
| Guyl, M., Spoth, R., Cornish, M. A., Substance misuse prevention and economic analysis: challenges and opportunities regarding international utility, Substance Use & Misuse, 47, 877-88, 2012 | Study design (methods paper describing approaches to economic evaluation in substance misuse filed; no actual effectiveness or cost-effectiveness data presented) |
| Gwin Mitchell, S., Gryczynski, J. O'Grady K. E. Schwartz R. P., SBIRT for adolescent drug and alcohol use: current status and future directions, Journal of Substance Abuse Treatment, 44(5), 463-472, 2013 | SBIRT study - includes universal screening |
| Haggerty, K. and, Kosterman, R., Helping parents prevent problem behaviour, Better: Evidence-based Education, pp22, 2012 | Paper unavailable |

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Excluded studies

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| Haggerty, K. P., Fleming, C. B., Catalano, R. F., Petrie, R. S., Rubin, R. J., Grassley, M. H., Ten years later: Locating and interviewing children of drug abusers, <i>Evaluation and program planning</i> , 31, 1-9, 2008 | No relevant outcome data reported |
| Haggerty, K. P., Long-term effects of staying connected with your teen: Exploring race differences and biological mechanisms of family preventive interventions, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 73, No-Specified, 2013 | Paper unavailable |
| Haggerty, Kevin P., Shapiro, Valerie B., Science-based prevention through communities that care: a model of social work practice for public health, <i>Social work in public health</i> , 28, 349-65, 2013 | Study design (not primary research or a systematic review) |
| Haggerty, Kevin P., Skinner, Martie L., Catalano, Richard F., Abbott, Robert D., Crutchfield, Robert D., Long-term effects of staying connected with your teen on drug use frequency at age 20, <i>Prevention science : the official journal of the Society for Prevention Research</i> , 16, 538-49, 2015 | Not targeted at a group of interest |
| Hahn, E. J., Hall, L. A., Rayens, M. K., Myers, A. V., Bonnel, G., A School- and home-based drug prevention: Environmental, parent, and child risk reduction, <i>Drugs: Education, Prevention & Policy</i> , 14, 319-331, 2007 | Universal school intervention |
| Hahn, E. J., Hall, L. A., Simpson, M. R., Drug prevention with high risk families and young children, <i>Journal of Drug Education</i> , 28, 327-45, 1998 | Not targeted at a group of interest |
| Haighton, C. A., Newbury-Birch, D., Kaner, E. F. S., Screening and interventions in medical settings including brief feedback-focused interventions, <i>Comprehensive addictive behaviors and disorders</i> , Vol. 3: Interventions for addiction., 287-298, 2013 | Not primary research (editorial/discussion piece) |
| Hale, D., Fitzgerald-Yau, N., Viner, M. R., A systematic review of effective interventions for reducing multiple health risk behaviors in adolescence, <i>American Journal of Public Health</i> , 104, e19-e41, 2014 | Review of universal school interventions |
| Hall, B., BaCon, T., Ferron, J., Randomized controlled evaluation of the too good for drugs prevention program: Impact on adolescents at different risk levels for drug use, <i>Journal of Drug Education</i> , 43, 277-300, 2013 | Universal school intervention |
| Hall, N. W., Zigler, E., Drug-abuse prevention efforts for young children: A review and critique of existing programs, <i>American Journal of Orthopsychiatry</i> , 67, 134-143, 1997 | Does not meet systematic review criteria |
| Haller, D. M., Meynard, A., Lefebvre, D., Tylee, A., Narring, F., Broers, B., Brief intervention addressing excessive cannabis use in young people consulting their GP: a pilot study, <i>The British journal of general practice : the journal of the Royal College of General Practitioners</i> , 59, 166-72, 2009 | Includes universal screening |
| Haller, D. M., Meynard, A., Lefebvre, D., Ukoumunne, O. C., Narring, F., Broers, B., Effectiveness of training family physicians to deliver a brief intervention to address excessive substance use among young patients: A cluster randomized controlled trial, <i>Canadian Medical Association Journal</i> , 186, E263-E272, 2014 | Includes universal screening |
| Hallfors, D., Cho, H., Sanchez, V., Khatapoush, S., Kim, H. M., Bauer, D., Efficacy vs effectiveness trial results of an indicated "model" substance abuse program: Implications for public health, <i>American Journal of Public Health</i> , 96, 2254-2259, 2006 | Not targeted at a group of interest |
| Hallfors, D., Van Dorn, R. A., Strengthening the role of two key institutions in the prevention of adolescent substance abuse, 30, 17 - 28, 2002 | Does not meet systematic review criteria |
| Halmi, A., Golik-Gruber, V., The prevention and reduction of the consumption of alcohol and any other drugs among a high-risk group of youths through improving family resilience, <i>Alcoholism</i> , 38, 41-55, 2002 | Paper unavailable |
| Hankin, A., Haley, L., Baugher, A., Colbert, K., Houry, D., Kiosk versus in-person screening for alcohol and drug use in the emergency department: patient preferences and disclosure, <i>The western journal of emergency medicine</i> , 16, 220-8, 2015 | Includes universal screening |
| Hanlon, T. E., Bateman, R. W., Simon, B. D., O'Grady, K. E., Carswell, S. B., An early community-based intervention for the prevention of substance abuse and other delinquent behavior, <i>Journal of youth and adolescence</i> , 31, 459-471, 2002 | Not all participants fall into a target group of interest |
| Hansen, W. B., Derzon, J., Dusenbury, L., Bishop, D., Campbell, Karren, Alford, A., Operating characteristics of prevention programs: Connections to drug use etiology, <i>Handbook of drug use etiology: Theory, methods, and empirical findings.</i> , 597-616, 2010 | Book - no relevant data to extract |
| Harden, A., Weston, R., Oakley, A., A review of the effectiveness and appropriateness of peer delivered health promotion interventions for young people, 1999 | Systematic review but 0 included studies meet our eligibility criteria |

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Excluded studies

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| Harris, S. K., Louis-Jacques, J., Knight, J. R., Screening and brief intervention for alcohol and other abuse, Adolescent Medicine: State of the Art Reviews, 25, 126-56, 2014 | Paper unavailable |
| Harris, W. W., Ryan, J., Indicated prevention: bridging the gap, one person at a time, Journal of psychoactive drugs, Suppl 6, 277-85, 2010 | No relevant outcome data reported |
| Hawkins, J. D., Brown, E. C., Oesterle, S., Arthur, M.I W., Abbott, R. D., Catalano, R. F., Early effects of Communities That Care on targeted risks and initiation of delinquent behavior and substance use, The Journal of adolescent health : official publication of the Society for Adolescent Medicine, 43, 15-22, 2008 | Not targeted at a group of interest |
| Hawkins, J. D., Catalano, R. F., Kuklinski, M. R., Communities that care: Bridging science and community practice to prevent adolescent health and behavior problems including violence, Social and economic costs of violence: Workshop summary., 121-139, 2012 | No drug misuse prevention interventions described |
| Hawkins, J. D., Oesterle, S., Brown, E. C., Abbott, R. D., Catalano, R. F., Youth problem behaviors 8 years after implementing the communities that care prevention system: a community-randomized trial, JAMA pediatrics, 168, 122-9, 2014 | Not targeted at a group of interest |
| Hawkins, J. D., Oesterle, S., Brown, E. C., Monahan, K. C., Abbott, R. D., Arthur, M. W., Sustained decreases in risk exposure and youth problem behaviors after installation of the communities that care prevention system in a randomized trial, Archives of Pediatrics and Adolescent Medicine, 166, 141-8, 2012 | Not targeted at a group of interest |
| Hawks, D, Scott, K, McBride, N, Prevention of psychoactive substance use: a selected review of what works in the area of prevention, 2002 | Systematic review but 0 included studies meet our eligibility criteria |
| Hawks, D., Lenton, S., Harm reduction in Australia: has it worked? a review, Drug and Alcohol Review, 14, 291-304, 1995 | Does not meet systematic review criteria |
| Hawthorne, G., Drug education: myth and reality, Drug and Alcohol Review, 20, 111-119, 2001 | Does not meet systematic review criteria |
| Henderson, C. E., Rowe, C. L., Dakof, G. A., Hawes, S. W., Liddle, H. A., Parenting Practices as Mediators of Treatment Effects in an Early-Intervention Trial of Multidimensional Family Therapy, American Journal of Drug and Alcohol Abuse, 35, 220-226, 2009 | Treatment rather than prevention |
| Herman, P. M., Mahrer, N. E., Wolchik, S. A., Porter, M. M., Jones, S., Sandler, I. N., Cost-benefit analysis of a preventive intervention for divorced families: reduction in mental health and justice system service use costs 15 years later, Prevention science : the official journal of the Society for Prevention Research, 16, 586-96, 2015 | Not primarily a drug misuse prevention intervention |
| Hermann, J. , Sambrano, S., Springer, J. F., et al, The National Cross-Site Evaluation of High-Risk Youth Programs: Findings on Designing and Implementing Effective Prevention Programs for Youth at High Risk. Monograph Series., 2002 | Not clear if all interventions included in the evaluation were targeted at groups of interest |
| Hernan, G. M., Ramos, M. M., Fernandez, A. A., [Review of published works on Spanish youth health promotion], Revista Espanola de Salud Publica, 75, 491-503, 2001 | Spanish language paper |
| Hernandez, L. P., Lucero, E., Days La Familia community drug and alcohol prevention program: Family-centered model for working with inner-city Hispanic families, The journal of primary prevention, 16, 255-72, 1996 | Not all participants fall into a target group of interest |
| Hettema, J., Steele, J., Miller, W. R., Motivational interviewing, Annual Review of Clinical Psychology, 1, 91 - 111, 2005 | Does not meet systematic review criteria |
| Hides, L., Carroll, S., Scott, R., Cotton, S., Baker, A., Lubman, D. I., Quik Fix: A Randomized Controlled Trial of an Enhanced Brief Motivational Interviewing Intervention for Alcohol/Cannabis and Psychological Distress in Young People, Psychotherapy and Psychosomatics, 82, 122-124, 2013 | Not all participants fall into a target group of interest |
| Hides, L., Samet, S., Lubman, D. I., Cognitive behaviour therapy (CBT) for the treatment of co-occurring depression and substance use: current evidence and directions for future research (Structured abstract), Drug and Alcohol Review, 29, 508-517, 2010 | Systematic review but only a maximum of 58% included studies meet our eligibility |
| Hill, N. L., Adolescent substance use prevention interventions outside of classroom settings, Child & Adolescent Social Work Journal, 25, 451-467, 2008 | Does not meet systematic review criteria |
| Hodge, D. R., Jackson, K. F., Vaughn, M. G., Culturally sensitive interventions and health and behavioral health youth outcomes: A meta-analytic review, Social Work in Health Care, 49, 401-423, 2010 | Systematic review but only 5% of included studies meet our eligibility criteria |
| Hogue, A., Liddle, H. A., Family-based preventive intervention: an approach to preventing substance use and antisocial behavior, American Journal of Orthopsychiatry, 69, 278-293, 1999 | Does not meet systematic review criteria |

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Excluded studies

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| Holleran Steiker, L. K., Hopson, L. M., Goldbach, J. T., Robinson, C., Evidence for site-specific, systematic adaptation of substance prevention curriculum with high-risk youths in community and alternative school settings, <i>Journal of Child & Adolescent Substance Abuse</i> , 23, 307-317, 2014 | Not all participants fall into a target group of interest |
| Hooven, C., Pike, K., Walsh, E., Parents of older at-risk youth: a retention challenge for preventive intervention, <i>The journal of primary prevention</i> , 34, 423-38, 2013 | Not all participants fall into a target group of interest |
| Hooven, C., Walsh, E., Willgerodt, M., Salazar, A., Increasing participation in prevention research: strategies for youths, parents, and schools, <i>Journal of child and adolescent psychiatric nursing : official publication of the Association of Child and Adolescent Psychiatric Nurses, Inc</i> , 24, 137-49, 2011 | Not all participants fall into a target group of interest |
| Hopson, L. M., Effectiveness of culturally grounded adaptations of an evidence-based substance abuse prevention program with alternative school students, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 68, 4478, 2008 | Universal school intervention (alternative/continuation high schools) |
| Hopson, L. M., Steiker, L. K. H., Methodology for evaluating an adaptation of evidence-based drug abuse prevention in alternative schools, <i>Children & Schools</i> , 30, 116-127, 2008 | Not targeted at a group of interest |
| Hopson, L., Wodarski, J. S., Tang, N., The effectiveness of electronic approaches to substance abuse prevention for adolescents, E-therapy for substance abuse and co-morbidity., 35-51, 2015 | Systematic review but 0 included studies meet our eligibility criteria |
| Horn, M. L., Fagan, A. A., Hawkins, J. D., Oesterle, S., Effects of the communities that care system on cross-sectional profiles of adolescent substance use and delinquency, <i>American Journal of Preventive Medicine</i> , 47, 188-97, 2014 | Not targeted at a group of interest |
| Hossain, R., Coren, E., Service Engagement in Interventions for Street-Connected Children and Young People: A Summary of Evidence Supplementing a Recent Cochrane-Campbell Review, <i>Child & Youth Care Forum</i> , 44, 451-470, 2015 | Systematic review but only a maximum of 24% of included studies meet our eligibility criteria |
| Hostetler, M., Fisher, K., Project CARE substance abuse prevention program for high-risk youth: A longitudinal evaluation of program effectiveness, <i>Journal of Community Psychology</i> , 25, 397-419, 1997 | Not all participants fall into a target group of interest |
| Hunt, G. E., Siegfried, N., Morley, K., Sitharthan, T., Cleary, M., Psychosocial interventions for people with both severe mental illness and substance misuse, <i>Cochrane Database of Systematic Reviews</i> , 2013, Art. No.: CD001088, 2013 | Treatment rather than prevention |
| Hunt, N., Stillwell, G., Taylor, C., Griffiths, P., Evaluation of a brief intervention to prevent initiation into injecting, <i>Drugs-Education Prevention and Policy/Drug-Educ. Prev. Policy</i> , 5, 185-194, 1998 | No relevant outcome data reported |
| Hunter, G., Ward, J., Power, R., Research and development focusing on peer intervention for drug users, <i>Drugs: Education, Prevention & Policy</i> , 4, 259-270, 1997 | No relevant outcome data reported |
| Husler, G., Werlen, E., Rehm, J., The Action Plan--a new instrument to collect data on interventions in secondary prevention in adolescents, <i>Substance Use & Misuse</i> , 40, 761-77, 2005 | Not all participants fall into a target group of interest |
| Illegal drug use in the United Kingdom: prevention, treatment and enforcement, 264p., tables, bibliogs., 1999 | No drug misuse prevention intervention described |
| Inman, D. D., van Bakergem, K. M., LaRosa, A. C., Garr, D. R., Evidence-Based Health Promotion Programs for Schools and Communities, <i>American Journal of Preventive Medicine</i> , 40, 207-219, 2011 | Review of universal school interventions |
| InSight Project Research, Group, SBIRT outcomes in Houston: final report on InSight, a hospital district-based program for patients at risk for alcohol or drug use problems, <i>Alcoholism, clinical and experimental research</i> , 33, 1374-81, 2009 | SBIRT study - includes universal screening |
| Jackson, C., Geddes, R. Haw S. Frank J., Interventions to prevent substance use and risky sexual behaviour in young people: a systematic review, <i>Addiction</i> , 107(4), 733-747, 2012 | Systematic review but only a maximum of 33% of included studies meet our eligibility criteria |
| Jarvinen, M., Ravn, S., From recreational to regular drug use: qualitative interviews with young clubbers, <i>Sociology of health & illness</i> , 33, 554-69, 2011 | No data related to drug misuse prevention interventions |
| Jenkins, J. A., Gordon, A. J., Substance use disorder prevention and treatment in stigmatized patient populations: ripe for innovation, <i>Substance Abuse</i> , 36, 1-2, 2015 | Not primary research (editorial) |
| Jensen, C. D., Cushing, C. C., Aylward, B. S., Craig, J. T., Sorell, D. M., Steele, R. G., Effectiveness of motivational interviewing interventions for adolescent substance use behavior change: A meta-analytic review, <i>Journal of Consulting and Clinical Psychology</i> , 79, 433-440, 2011 | Does not meet systematic review criteria |

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Excluded studies

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| Jepson, R., Harris, F., Platt, S., Tannahill, C., The effectiveness of interventions to change six health behaviours: A review of reviews, <i>BMC Public Health</i> , 10, 538, 2010 | Systematic review but only a maximum of 4% of included studies meet our eligibility criteria |
| Jhanjee, S., Evidence based psychosocial interventions in substance use (Provisional abstract), <i>Database of Abstracts of Reviews of Effects</i> , 112-118, 2014 | Does not meet systematic review criteria |
| Johnson, K., Bryant, D. D., Collins, D. A., Noe, T. D., Strader, T. N., Berbaum, M., Preventing and reducing alcohol and other drug use among high-risk youths by increasing family resilience, <i>Social work</i> , 43, 297-308, 1998 | Not targeted at a group of interest |
| Johnson, K., Strader, T., Berbaum, M., Bryant, D., Bucholtz, G., Collins, D., Noe, T., Reducing alcohol and other drug use by strengthening community, family, and youth resiliency: An evaluation of the Creating Lasting Connections Program, <i>Special Issue: Preventing adolescent substance abuse</i> , 11, 36-67, 1996 | Not targeted at a group of interest |
| Jonas, B., Tossmann, P., Tensil, M., Leuschner, F., Struber, E., Efficacy of a single-session online-intervention on problematic substance use. [German], <i>Sucht</i> , 58, 173-82, 2012 | German language paper |
| Jones, L., Sumnall, H., Witty, K., Wareing, M., McVeigh, J., Bellis, M. A., A review of community-based interventions to reduce substance misuse among vulnerable and disadvantaged young people, <i>PHIAC 5.3a</i> , 2006 | Systematic review but only up to 16% of included studies meet our eligibility criteria |
| Kaner, E. F. S., Brown, N., Jackson, K., A systematic review of the impact of brief interventions on substance use and co-morbid physical and mental health conditions, <i>Mental Health and Substance Use: dual diagnosis</i> , 4, 38-61, 2011 | Systematic review but only a maximum of 29% of included studies meet our eligibility criteria |
| Kanouse, D. E., Bluthenthal, R. N., Bogart, L., Iguchi, M. Y., Perry, S., Sand, K., Shoptaw, S., Recruiting drug-using men who have sex with men into behavioral interventions: a two-stage approach, <i>Journal of urban health : bulletin of the New York Academy of Medicine</i> , 82, i109-19, 2005 | No drug misuse prevention intervention described |
| Kao, T. S., Gibbs, M., Clemen-Stone, S., Duffy, S., A comparison of family interventions to address adolescent risky behaviors: A literature review, <i>Western Journal of Nursing Research</i> , 35, 611-637, 2013 | Does not meet systematic review criteria |
| Karki, S., Pietila, A. M., Lansimies-Antikainen, H., Varjoranta, P., Pirskanen, M., Laukkanen, E., The effects of interventions to prevent substance use among adolescents: a systematic review (Provisional abstract), <i>Journal of Child and Adolescent Substance Abuse</i> , 21, 383-413, 2012 | Does not meet systematic review criteria |
| Kavanagh, D. J., Young, R., White, A., Saunders, J. B., Wallis, J., Shockley, N., Jenner, L., Clair, A., A brief motivational intervention for substance misuse in recent-onset psychosis, <i>Drug and Alcohol Review</i> , 23, 151-155, 2004 | Treatment rather than prevention |
| Kim, H. K., Pears, K. C., Leve, L. D., Chamberlain, P., Smith, D. K., Intervention effects on health-risking sexual behavior among girls in foster care: The role of placement disruption and tobacco and marijuana use, <i>Journal of Child & Adolescent Substance Abuse</i> , 22, 370-387, 2013 | No relevant outcome data reported |
| Kirst, M., Zerger, S., Misir, V., Hwang, S., Stergiopoulos, V., The impact of a Housing First randomized controlled trial on substance use problems among homeless individuals with mental illness, <i>Drug and Alcohol Dependence</i> , 146, 24-9, 2015 | Housing First study - unclear if intervention included a drug misuse prevention element |
| Klein, J. D., Matos, A. M., Improving adolescent health outcomes, 54, 25-39, 2002 | Does not meet systematic review criteria |
| Klimas, J., Tobin, H., Field, C. A., O'Gorman, C. S., Glynn, L. G., Keenan, E., Saunders, J., Bury, G., Dunne, C., Cullen, W., Psychosocial interventions to reduce alcohol consumption in concurrent problem alcohol and illicit drug users, <i>Cochrane Database of Systematic Reviews</i> , 12, Art. No.: CD009269, 2014 | Systematic review but 0 included studies meet our eligibility criteria |
| Knight, J. R., Sherritt, L., Van Hook, S., Gates, E. C., Levy, S., Chang, G., Motivational interviewing for adolescent substance use: A pilot study, <i>Journal of Adolescent Health</i> , 37, 167-169, 2005 | Not all participants fall into a target group of interest |
| Koesters, S. C., Rogers, P. D., Rajasingham, C. R., MDMA ('ecstasy') and other 'club drugs'. The new epidemic, <i>Pediatric clinics of North America</i> , 49, 415-33, 2002 | No drug misuse prevention intervention described |
| Kolliakou, A., Fusar-Poli, P., Atakan, Z., Cannabis abuse and vulnerability to psychosis: targeting preventive services, <i>Current Pharmaceutical Design</i> , 18, 542-9, 2012 | Does not meet systematic review criteria |
| Konishi, C.i, Saewyc, E., Homma, Y., Poon, C., Population-level evaluation of school-based interventions to prevent problem substance use among gay, lesbian and bisexual adolescents in Canada, <i>Preventive Medicine</i> , 57, 929-33, 2013 | No drug misuse prevention intervention described |

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Excluded studies

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| Kresina, T. F., Bruce, R. D., Mulvey, K. P., Evidence-based prevention interventions for people who use illicit drugs, <i>Advances in preventive medicine</i> , 2013, 360957, 2013 | Not primary research (editorial) |
| Krupski, A., Sears, J. M., Joesch, J. M., Estee, S., He, L., Huber, A., Dunn, C., Roy-Byrne, P., Ries, R., Self-reported alcohol and drug use six months after brief intervention: do changes in reported use vary by mental-health status?, <i>Addiction science & clinical practice</i> , 7, 24, 2012 | SBIRT study - includes universal screening |
| Kumpfer, K. L., Alvarado, R., Family-strengthening approaches for the prevention of youth problem behaviors, 58, 457 - 465, 2003 | Does not meet systematic review criteria |
| Kumpfer, K. L., Alvarado, R., Whiteside, H. O., Family-based interventions for substance use and misuse prevention, <i>Substance Use & Misuse</i> , 38, 1759-1787, 2003 | Does not meet systematic review criteria |
| Kumpfer, K. L., Johnson, J. L., Strengthening family interventions for the prevention of substance abuse in children of addicted parents, <i>Adicciones</i> , 19, 13-25, 2007 | Study design (narrative overview) |
| Kumpfer, K. L., Xie, J., O'Driscoll, R., Effectiveness of a culturally adapted Strengthening Families Program 12-16 years for high-risk Irish families, <i>Child and Youth Care Forum</i> , 42, 173-195, 2013 | Not clear if intervention is targeted at a group of interest |
| Langford, R., Bonell, C. P., Jones, H. E., Poulidou, T., Murphy, S. M., Waters, E., Komro, K. A., Gibbs, L. F., Magnus, D., Campbell, R., The WHO Health Promoting School framework for improving the health and well-being of students and their academic achievement, <i>Cochrane Database of Systematic Reviews</i> , CD008958, 2014 | No drug misuse prevention interventions described |
| Larimer, M. E., Kilmer, J. R., Lee, C. M., College student drug prevention: A review of individually-oriented prevention strategies, <i>Journal of Drug Issues</i> . <i>Drug Issues</i> , 35, 431-455, 2005 | Does not meet systematic review criteria |
| Laursen, D., Counseling Young Cannabis Users by Text Message, <i>Journal of Computer-Mediated Communication</i> , 15, 646-665, 2010 | Not all participants fall into a target group of interest |
| Lee, T. Y., Construction of an integrated positive youth development conceptual framework for the prevention of the use of psychotropic drugs among adolescents, <i>TheScientificWorldJournal</i> , 11, 2403-17, 2011 | Study design (theoretical paper; no effectiveness or acceptability data) |
| Lemstra, M., Bennett, N., Nannapaneni, U., Neudorf, C., Warren, L., Kershaw, T., Scott, C., A systematic review of school-based marijuana and alcohol prevention programs targeting adolescents aged 10-15, <i>Addiction Research & Theory</i> , 18, 84-96, 2010 | Review of universal school interventions |
| Leve, L. D., Fisher, P. A., Chamberlain, P., Multidimensional treatment foster care as a preventive intervention to promote resiliency among youth in the child welfare system, <i>Journal of personality</i> , 77, 1869-1902, 2009 | Study design (not primary research or a systematic review) |
| Lewis, A. J., Holmes, N., Watkins, B., Mathers, D., Children Impacted by Parental Substance Abuse: An Evaluation of the Supporting Kids and Their Environment Program, <i>Journal of Child and Family Studies</i> , 24, 2398-2406, 2015 | Not all participants fall into a target group of interest |
| Li, Y., Zhang, W., Liu, J., Arbeit, M. R., Schwartz, S. J., Bowers, E. P., Lerner, R. M., The role of school engagement in preventing adolescent delinquency and substance use: a survival analysis, <i>Journal of adolescence</i> , 34, 1181-92, 2011 | No drug misuse prevention intervention described |
| Liddle, H. A., Rowe, C. L., Dakof, G. A., Henderson, C. E., Greenbaum, P. E., Multidimensional Family Therapy for Young Adolescent Substance Abuse: Twelve-Month Outcomes of a Randomized Controlled Trial, <i>Journal of Consulting and Clinical Psychology</i> , 77, 12-25, 2009 | Treatment rather than prevention |
| Lisha, N., Sun, P., Rohrbach, L. A., Spruijt-Metz, D., Unger, J. B., Sussman, S., An evaluation of immediate outcomes and fidelity of a drug abuse prevention program in continuation high schools: Project towards no drug abuse (TND), <i>Journal of Drug Education</i> , 42, 33-57, 2012 | Universal school intervention (alternative/continuation high schools) |
| Little, M. A., Sussman, S., Sun, P., Rohrbach, L. A., The effects of implementation fidelity in the Towards No Drug Abuse dissemination trial, <i>Special Issue: Introduction to the special issue on adaptation and fidelity.</i> , 113, 281-296, 2013 | Not targeted at a group of interest |
| Lloyd, C., et al., Monitoring and evaluation of family intervention services and projects between February 2007 and March 2011, 132pp., 2011 | Not primarily a drug misuse prevention intervention |
| London, M., Prevention of substance misuse, <i>Current Opinion in Psychiatry</i> , 14, 207-211, 2001 | Does not meet systematic review criteria |
| Longshore, D., Ellickson, P. L., McCaffrey, D. F., St Clair, P. A., School-based drug prevention among at-risk adolescents: effects of ALERT plus, <i>Health education & behavior : the official publication of the Society for Public Health Education</i> , 34, 651-68, 2007 | Not targeted at a group of interest |

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Excluded studies

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| Looby, A., De Young, K. P., Earleywine, M., Challenging expectancies to prevent nonmedical prescription stimulant use: a randomized, controlled trial, <i>Drug and Alcohol Dependence</i> , 132, 362-8, 2013 | Not targeted at a group of interest |
| LoSciuto, L., Hilbert, S. M., Fox, M. M., Porcellini, L., Lanphear, A., A two-year evaluation of the Woodrock Youth Development Project, <i>The Journal of Early Adolescence</i> , 19, 488-507, 1999 | Not targeted at a group of interest |
| Loudenburg, R., Leonardson, G. R., A multifaceted intervention strategy for reducing substance use in high-risk women, <i>Neurotoxicology and teratology</i> , 25, 737-44, 2003 | Not targeted at a group of interest |
| Maalouf, W. E., The role of parenting skills in the intergenerational transmission of marijuana use behavior, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 71, 1809, 2010 | Dissertation abstract |
| MacLean, S., Cameron, J., Harney, A., Lee, N., Psychosocial therapeutic interventions for volatile substance use: A systematic review, <i>Addiction</i> , 107, 278-288, 2012 | Systematic review but only a maximum of 32% of included studies meet our eligibility criteria |
| Madras, B. K., Compton, W. M., Avula, D., Stegbauer, T., Stein, J. B., Clark, H. W., Screening, brief interventions, referral to treatment (SBIRT) for illicit drug and alcohol use at multiple healthcare sites: comparison at intake and 6 months later, <i>Drug and alcohol dependence</i> , 99, 280-95, 2009 | SBIRT study - includes universal screening |
| Magill, M., Ray, L. A., Cognitive-behavioral treatment with adult alcohol and illicit drug users: a meta-analysis of randomized controlled trials (Structured abstract), <i>Journal of Studies on Alcohol and Drugs</i> , 70, 516-527, 2009 | Treatment rather than prevention |
| Marshall, V. J., McLaurin-Jones, T. L., Kalu, N., Kwagyan, J., Scott, D. M., Cain, G., Greene, W., Adenuga, B., Taylor, R. E., Screening, brief intervention, and referral to treatment: public health training for primary care, <i>American Journal of Public Health</i> , 102, e30-6, 2012 | SBIRT study - includes universal screening |
| Martin G, Copeland J, Swift W (2005) The Adolescent Cannabis Check-Up: feasibility of a brief intervention for young cannabis users. <i>Journal of Substance Abuse Treatment</i> 29: 207-13 | Not targeted at a group of interest |
| Martin G, Copeland J (2010) Brief intervention for regular ecstasy (MDMA) users: pilot randomized trial of a Check-up model. <i>Journal of Substance Use</i> 15: 131-142 | Not targeted at a group of interest |
| Martins Renata, K., McNeil Daniel, W., Review of Motivational Interviewing in promoting health behaviors, <i>Clinical Psychology Review</i> , 29, 283 - 293, 2009 | Does not meet systematic review criteria |
| Mason, M., Ola, B., Zaharakis, N., Zhang, J., Text messaging interventions for adolescent and young adult substance use: a meta-analysis, <i>Prevention science : the official journal of the Society for Prevention Research</i> , 16, 181-8, 2015 | Meta-analysis but 0 included studies meet our eligibility criteria |
| Mason, W. A., Haggerty, K. P., Fleming, A. P., Casey-Goldstein, M., Family intervention to prevent depression and substance use among adolescents of depressed parents, <i>Journal of Child and Family Studies</i> , 21, 891-905, 2012 | Not targeted at a group of interest |
| Matsumoto, T., Ozaki, S., Kobayashi, O., Wada, K., Current situation and clinical characteristics of sedative-related disorder patients in Japan: Comparison with methamphetamine-related disorder patients, <i>Activitas Nervosa Superior</i> , 57, 12-28, 2015 | Not targeted at a group of interest |
| McCambridge, J., Day, M., Thomas, B. A., Strang, J., Fidelity to Motivational Interviewing and subsequent cannabis cessation among adolescents, <i>Addictive Behaviors</i> , 36, 749-754, 2011 | No relevant outcome data reported |
| McCambridge, J., Strang, J, Deterioration over time in effect of Motivational Interviewing in reducing drug consumption and related risk among young people, <i>Addiction</i> , 100, 470-478, 2005 | Not targeted at a group of interest. |
| McCambridge, J., Strang, J, The efficacy of single-session motivational interviewing in reducing drug consumption and perceptions of drug-related risk and harm among young people: results from a multi-site cluster randomized trial, <i>Addiction</i> , 99, 39-52, 2004 | Not targeted at a group of interest. |
| McDonald, L., Sayger, T.V., Impact of a family and school based prevention program on protective factors for high risk youth, <i>Drugs & Society</i> , 12, 61-85, 1998 | Not targeted at a group of interest |
| McDonald, T. P., Mariscal, E. S., Yan, Y., Brook, J., Substance use and abuse for youths in foster care: Results from the communities that care normative database, <i>Journal of Child & Adolescent Substance Abuse</i> , 23, 262-268, 2014 | No drug misuse prevention intervention described |
| McKenna, Chris, Gaines, Barbara, Hatfield, Crystal, Helman, Stephanie, Meyer, Lisa, Rennick, Cassi, Schenkel, Kathleen, Zaremski, Jamie, Implementation of a screening, brief intervention, and referral to treatment program using the electronic medical record in a pediatric trauma center, <i>Journal of trauma nursing : the official journal of the Society of Trauma Nurses</i> , 20, 16-23, 2013 | SBIRT study - includes universal screening |

Drug misuse prevention: Appendix 2 to Evidence Review 1
Excluded studies

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| McLellan, J., Dale, H., Can technology be effective in interventions targeting sexual health and substance use in young people; A systematic review, <i>Health and Technology</i> , 3, 195-203, 2013 | Does not meet systematic review criteria |
| Mellanby, A. R., Rees, J. B., Tripp, J. H., Peer-led and adult-led school health education: A critical review of available comparative research, <i>Health Education Research</i> , 15, 533-545, 2000 | Systematic review but 0 included studies meet our eligibility criteria |
| Melrose, M., Fixing it: young people, drugs and disadvantage, 128p., tables, bibliog., 2000 | No relevant outcome data reported |
| Menza, T. W., Colfax, G., Shoptaw, S., Fleming, M., Guzman, R., Klausner, J. D., Gorbach, P., Golden, M. R., Interest in a methamphetamine intervention among men who have sex with men, <i>Sexually transmitted diseases</i> , 34, 209-14, 2007 | No drug misuse prevention intervention described |
| Metsch, L. R., Rivers, J. E., Miller, M., Bohs, R., McCoy, C. B., Morrow, C. J., Bandstra, E. S., Jackson, V., Gissen, M., Implementation of a family-centered treatment program for substance-abusing women and their children: barriers and resolutions, <i>Journal of psychoactive drugs</i> , 27, 73-83, 1995 | Treatment rather than prevention |
| Midford, R., Drug prevention programmes for young people: where have we been and where should we be going?, <i>Addiction (Abingdon, England)</i> , 105, 1688-95, 2010 | Does not meet systematic review criteria |
| Midford, R., Munro, G., McBride, N., Snow, P., Ladzinski, U., Principles that underpin effective school-based drug education, <i>Journal of Drug Education</i> , 32, 363-386, 2002 | Universal schools paper |
| Miller, B. A., Holder, H. D., Voas, R. B., Environmental strategies for prevention of drug use and risks in clubs, <i>Journal of Substance Use</i> , 14, 19-38, 2009 | Study design (not primary research or a systematic review) |
| Milligan, K., Niccols, A., Sword, W., Thabane, L., Henderson, J., Smith, A., Liu, J., Maternal substance use and integrated treatment programs for women with substance abuse issues and their children: a meta-analysis (Structured abstract), <i>Substance Abuse Treatment, Prevention, and Policy</i> , 5:21, 2010 | No relevant child outcomes reported |
| Mitchell, S. G., Gryczynski, J., Gonzales, A., Moseley, A., Peterson, T., O'Grady, K. E., Schwartz, R. P., Screening, brief intervention, and referral to treatment (SBIRT) for substance use in a school-based program: services and outcomes, <i>The American journal on addictions / American Academy of Psychiatrists in Alcoholism and Addictions</i> , 21 Suppl 1, S5-13, 2012 | SBIRT study - includes universal screening |
| Montoya, I. D., Atkinson, J., McFaden, W. C., Best characteristics of adolescent gateway drug prevention programmes, <i>Journal of Addictions Nursing</i> , 14, 75 - 83, 2003 | Does not meet systematic review criteria |
| Moon, K. T., Targeted interventions for adolescents to prevent drug use, <i>American family physician</i> , 81, 1369-1374, 2010 | Not targeted at a group of interest |
| Morrison, G. M., Storino, M. H., Robertson, L. M., Weissglass, T., Dondero, A., The protective function of after-school programming and parent education and support for students at risk for substance abuse, <i>Evaluation and program planning</i> , 23, 365-371, 2000 | Not targeted at a group of interest |
| Moskalewicz, J., Swiatkiewicz, G., Malczyce, Poland: A multifaceted community action project in eastern Europe in a time of rapid economic change, <i>Substance Use and Misuse</i> , 35, 189-202, 2000 | Not targeted at a group of interest |
| Moyer, V. A., U. S. Preventive Services Task Force, Primary care behavioral interventions to reduce illicit drug and nonmedical pharmaceutical use in children and adolescents: U.S. Preventive Services Task Force recommendation statement, <i>Annals of Internal Medicine</i> , 160, 634-9, 2014 | Not primary research (clinical guideline) |
| Mukoma, W., Flisher, A. J., Evaluations of health promoting schools: a review of nine studies, <i>Health Promotion International</i> , 19(3), 357-368, 2004 | Review of universal school interventions |
| Munton, T., Wedlock, E., Gomersall, A., The efficacy and effectiveness of drug and alcohol abuse prevention programmes delivered outside of school settings, 72, 2014 | Systematic review but 0 included studies meet our eligibility criteria |
| Neale, J., Stevenson, C., The use of computer-assisted therapy by homeless drug users living in hostels: An explorative qualitative study, <i>Drugs: Education, Prevention & Policy</i> , 21, 80-87, 2014 | Treatment rather than prevention |
| Nelson, A., Arthur, B., Storytelling for Empowerment: Decreasing At-Risk Youth's Alcohol and Marijuana Use, <i>Journal of Primary Prevention</i> , 24, 169-180, 2003 | Not targeted at a group of interest |
| Nemes, H., Collaboration of school social workers and drug prevention staff in the schools, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 70, 4876, 2010 | Dissertation abstract |
| Newburn, T., Elliott, J., Risks and responses: drug prevention and youth justice, 1999 | Paper unavailable |

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Excluded studies

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| Newton, A., Dong, K., Mabood, N., Ata, N., Ali, S., Gokiart, R., Vandermeer, B., Tjosvold, L., Hartling, L., Wild, T. C., Brief emergency department interventions for youth who use alcohol and other drugs: A systematic review, <i>Pediatric Emergency Care</i> , 29, 673-684, 2013 | Systematic review but only a maximum of 22% of included studies meet our eligibility criteria |
| Niccols, A., Milligan, K., Smith, A., Sword, W., Thabane, L., Henderson, J., Integrated programs for mothers with substance abuse issues and their children: a systematic review of studies reporting on child outcomes (Structured abstract), <i>Child Abuse and Neglect</i> , 36, 308-322, 2012 | Treatment rather than prevention |
| Noffsinger, D. L., Cooley, J., Screening, brief intervention, and referral to treatment in the adolescent trauma population: examining barriers to implementation, <i>Journal of trauma nursing : the official journal of the Society of Trauma Nurses</i> , 19, 148-3, 2012 | SBIRT study - includes universal screening |
| Norberg, M. M., Kezelman, S., Lim-Howe, N., Primary prevention of cannabis use: A systematic review of randomized controlled trials, <i>PLoS ONE</i> , 8, e53187, 2013 | Systematic review but 0 included studies meet our eligibility criteria |
| Norrsgard, E., Wikstrom, E., Pickering, C., Gripenberg, J., Spak, F., Environmental and capacity requirements are critical for implementing and sustaining a drug prevention program: a multiple case study of "Clubs against drugs", <i>Substance Abuse Treatment, Prevention, and Policy</i> , 9, 6, 2014 | Out of scope (intervention aimed at decreasing availability of drugs in licensed premises) |
| Oesterle, S., Hawkins, J. D., Fagan, A. A., Abbott, R. D., Catalano, R. F., Testing the universality of the effects of the communities that care prevention system for preventing adolescent drug use and delinquency, <i>Prevention science : the official journal of the Society for Prevention Research</i> , 11, 411-23, 2010 | Not targeted at a group of interest (subgroup analysis of a universal intervention) |
| Oesterle, S., Hawkins, J. D., Fagan, A. A., Abbott, R. D., Catalano, R. F., Variation in the sustained effects of the communities that care prevention system on adolescent smoking, delinquency, and violence, <i>Prevention science : the official journal of the Society for Prevention Research</i> , 15, 138-45, 2014 | Not related to drug misuse |
| Oklahoma State Department Mental, Health, Substance Abuse Services, Transformation State Incentive Grant Sbirth Initiative, Screening brief intervention and referral to treatment (SBIRT) saves lives and improves health, <i>The Journal of the Oklahoma State Medical Association</i> , 103, 266-8, 2010 | Study design (not primary research or a systematic review) |
| Ozer, E. M., Adams, S. H., Orrell-Valente, J. K., Wibbelsman, C. J., Lustig, J. L., Millstein, S. G., Garber, A. K., Irwin, C. E., Jr., Does delivering preventive services in primary care reduce adolescent risky behavior?, <i>The Journal of adolescent health : official publication of the Society for Adolescent Medicine</i> , 49, 476-82, 2011 | Intervention includes universal screening |
| Padgett, D. et al., Substance use outcomes among homeless clients with serious mental illness: comparing Housing First with Treatment First programs, <i>Community mental health journal</i> , 47, 227-232, 2011 | Study design (not an effectiveness or acceptability study) |
| Patnode, C. D., O'Connor, E., Rowland, M., Burda, B. U., Perdue, L. A., Whitlock, E. P., Primary care behavioral interventions to prevent or reduce illicit drug use and nonmedical pharmaceutical use in children and adolescents: A systematic evidence review for the U.S. Preventive Services Task Force, <i>Annals of Internal Medicine</i> , 160, 612-620, 2014 | Systematic review but only 17% of included studies meet our eligibility criteria |
| Pedersen, E. R., Kilmer, J. R., Lee, C. M., Walker, D. D., Etiology and prevention of marijuana use among college students, <i>Comprehensive addictive behaviors and disorders</i> , Vol. 3: Interventions for addiction., 823-832, 2013 | Not primary research (overview/discussion paper) |
| Perez, J. M.I E., Diaz, S. A., Villa, Roberto S., Fernandez-Hermida, J. R., Carballo, J. L., Garcia-Rodriguez, O., Family-based drug use prevention: The "Familias que Funcionan" program, <i>Psychology in Spain</i> , 14, 1-7, 2010 | Spanish language paper |
| Perkins, D. F., Feinberg, M. E., Greenberg, M. T., Johnson, L. E., Chilenski, S. M., Mincemoyer, C. C., Spoth, R. L., Team factors that predict to sustainability indicators for community-based prevention teams, <i>Evaluation and program planning</i> , 34, 283-91, 2011 | Not targeted at a group of interest |
| Perry, A. E., Neilson, M., Martyn-St James, M., Glanville, J., M., Woodhouse, R., Godfrey, C., Hewitt, C., Interventions for drug-using offenders with co-occurring mental illness, <i>Cochrane Database of Systematic Reviews</i> , 2015 | Systematic review but 0 included studies meet our eligibility criteria |
| Perry, A. E., Neilson, M., Martyn-St James, M., Glanville, J.M., Woodhouse, R., Hewitt, C., Interventions for female drug-using offenders, <i>Cochrane Database of Systematic Reviews</i> , 2015 | Systematic review but 0 studies meet our eligibility criteria |
| Perry, A., Coulton, S., Glanville, J., Godfrey, C., Lunn, J., McDougall, C., Neale, Z., Interventions for drug-using offenders in the courts, secure establishments and the community, 2006 | Review withdrawn |

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Excluded studies

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| Peters, L. W., Kok, G., Ten Dam, G. T., Buijs, G. J., Paulussen, T. G., Effective elements of school health promotion across behavioral domains: A systematic review of reviews, <i>BMC Public Health</i> , 9, 182, 2009 | Review of universal school interventions |
| Peterson, J., A qualitative comparison of parent and adolescent views regarding substance use, <i>The Journal of school nursing : the official publication of the National Association of School Nurses</i> , 26, 53-64, 2010 | Not targeted at a group of interest |
| Petrie, J., Bunn, F., Byrne, G., Parenting programmes for preventing tobacco, alcohol or drugs misuse in children <18: A systematic review, <i>Health Education Research</i> , 22, 177-191, 2007 | Systematic review but only a maximum of 45% of included studies meet our eligibility criteria |
| Phillips, L., Smith, R., Martin, K., Mehta, P., Durbin, B., National Foundation for Educational, Research, Evaluation of the Youth Justice Board Pilot Resettlement Support Panel Scheme, 145, 2012 | Not primarily a drug misuse prevention intervention |
| Pilowsky, D., Wu, L. T., Screening instruments for substance use and brief interventions targeting adolescents in primary care: A literature review, <i>Addictive Behaviors</i> , 38, 2146-2153., 2013 | Includes universal screening |
| Pirskanen, M., Laukkanen, E., Pietila, A., A formative evaluation to develop a school health nursing early intervention model for adolescent substance use, <i>Public health nursing (Boston, Mass.)</i> , 24, 256-64, 2007 | Intervention includes universal screening |
| Pirskanen, M., Pietila, A., Halonen, P., Laukkanen, E., School health nurses and substance use among adolescents - towards individual identification and early intervention, <i>Scandinavian Journal of Caring Sciences</i> , 20, 439-447, 2006 | No relevant outcome data reported |
| Popovici, I., French, M. T., Economic evaluation of substance abuse interventions: Overview of recent research findings and policy implications, <i>Addictions: A comprehensive guidebook (2nd ed.)</i> , 882-899, 2013 | No data on interventions targeted at groups of interest |
| Porath-Waller, A. J., Beasley, E., Beirness, D. J., A meta-analytic review of school-based prevention for cannabis use, <i>Health Education & Behavior</i> , 37, 709-723, 2010 | Review of universal school interventions |
| Portnoy, D. B., Scott-Sheldon, L. A. J., Johnson, B. T., Carey, M. P., Computer-delivered interventions for health promotion and behavioral risk reduction: A meta-analysis of 75 randomized controlled trials, 1988-2007, <i>Preventive Medicine</i> , 47, 3-16, 2008 | Systematic review but only a maximum of 15% of included studies meet our eligibility criteria |
| Poulin, F., Dishion, T. J., Burraston, B., 3-year iatrogenic effects associated with aggregating high-risk adolescents in cognitive-behavioral preventive interventions, <i>Applied developmental science</i> , 5, 214-224, 2001 | Not targeted at a group of interest |
| Powell, K. G., Empowerment and effectiveness: A mixed methods study of coalition building within a statewide substance abuse prevention context, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 75, No-Specified, 2014 | Not targeted at a group of interest |
| Prado, G., Huang, S., Cordova, D., Malcolm, S., Estrada, Y., Cano, N., Maldonado-Molina, M., Bacio, G., Rosen, A., Pantin, H., Brown, C. H., Ecodevelopmental and intrapersonal moderators of a family based preventive intervention for Hispanic youth: a latent profile analysis, <i>Prevention Science</i> , 14, 290-9, 2013 | Not targeted at a group of interest |
| Pringle, J. L., Melczak, M., Johnjullo, W., Campopiano, M., Gordon, A. J., Costlow, M., Pennsylvania SBIRT Medical and Residency Training: developing, implementing, and evaluating an evidenced-based program, <i>Substance abuse : official publication of the Association for Medical Education and Research in Substance Abuse</i> , 33, 292-7, 2012 | SBIRT study - includes universal screening |
| Prinz, R. J., A population approach to parenting and family intervention, <i>Handbook of adolescent drug use prevention: Research, intervention strategies, and practice.</i> , 237-247, 2015 | Paper unavailable |
| Promoting men's mental health, 266p., 2010 | Book - no relevant data to extract |
| Public Health England, The international evidence on the prevention of drug and alcohol use. Summary and examples of implementation in England. PHE, 2015 | Not primary research (briefing paper) |
| Raynal, M. E., Chen, W. W., Evaluation of a drug prevention program for young high risk students, <i>International quarterly of community health education</i> , 16, 187-95, 1996 | Not targeted at a group of interest |
| Reback, Cathy J., Shoptaw, Steven, Development of an evidence-based, gay-specific cognitive behavioral therapy intervention for methamphetamine-abusing gay and bisexual men, <i>Addictive Behaviors</i> , 39, 1286-91, 2014 | Treatment rather than prevention |
| Reed, K., Cheadle, A., Thompson, B., Evaluating prevention programs with the Results Mapping evaluation tool: a case study of a youth substance abuse prevention program, <i>Health Education Research</i> , 15, 73-84, 2000 | Not targeted at a group of interest |

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Excluded studies

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| Rentschler, D. M., A longitudinal study to determine the long-term effects of prevention and intervention substance abuse strategies on at-risk fourth grade students and their families, <i>Dissertation Abstracts International Section A: Humanities and Social Sciences</i> , 57, 3406, 1997 | Not clear if intervention is targeted at a group of interest |
| Rhew, I. C., Brown, E. C., Hawkins, J. D., Briney, J. S., Sustained effects of the Communities That Care system on prevention service system transformation, <i>American Journal of Public Health</i> , 103, 529-35, 2013 | Not targeted at a group of interest |
| Rice, E., Milburn, N. G., Monro, W., Social networking technology, social network composition, and reductions in substance use among homeless adolescents, <i>Prevention science : the official journal of the Society for Prevention Research</i> , 12, 80-8, 2011 | No drug misuse prevention intervention described |
| Rice, E., Rhoades, H., How should network-based prevention for homeless youth be implemented?, <i>Addiction</i> , 108, 1625-1626, 2013 | Not primary research (commentary) |
| Rivera, E. T., Hendricks, W. A., Peace, P., Substance abuse counseling with college students, Group work and outreach plans for college counselors., 171-177, 2011 | Paper unavailable |
| Rodriguez, D. M., Teesson, M., Newton, N. C., A systematic review of computerised serious educational games about alcohol and other drugs for adolescents, <i>Drug and Alcohol Review</i> , 33, 129-135, 2014 | Systematic review but 0 included studies meet our eligibility criteria |
| Roe, S., Becker, J., Drug prevention with vulnerable young people: a review (Provisional abstract), <i>Alcohol, Drugs and Driving</i> , 12, 85-99, 2005 | Systematic review but only a maximum of 50% of included studies meet our eligibility criteria |
| Rohde, P., Stice, E., Gau, J. M., Marti, C. N., Reduced substance use as a secondary benefit of an indicated cognitive-behavioral adolescent depression prevention program, <i>Psychology of addictive behaviors : journal of the Society of Psychologists in Addictive Behaviors</i> , 26, 599-608, 2012 | Not primarily a drug misuse prevention intervention |
| Rohrbach, L. A., Grana, R., Sussman, S., Valente, T. W., Type II translation: transporting prevention interventions from research to real-world settings, <i>Evaluation & the health professions</i> , 29, 302-33, 2006 | Study design (overview/discussion of how to disseminate prevention programmes) |
| Rongione, D., Erford, B. T., Broglie, C., Alcohol and other drug abuse counseling outcomes for school-aged youth: a meta-analysis of studies from 1990 to 2009, <i>Counseling Outcome Research and Evaluation</i> , 2(1), 8-24, 2011 | Treatment rather than prevention |
| Rooke, S., Copeland, J., Norberg, M., Hine, D., McCambridge, J., Effectiveness of a self-guided web-based cannabis treatment program: randomized controlled trial, <i>Journal of Medical Internet Research</i> , 15, e26, 2013 | Treatment rather than prevention |
| Rosenthal, M. Zachary, Kutlu, Munir G., Translation of associative learning models into extinction reminders delivered via mobile phones during cue exposure interventions for substance use, <i>Psychology of addictive behaviors : journal of the Society of Psychologists in Addictive Behaviors</i> , 28, 863-71, 2014 | Treatment rather than prevention |
| Rutter, D., Keys to change: a study of the role of local authority housing in the care and rehabilitation of drug and alcohol users in the London Borough of Lambeth (Drugs prevention; initiative paper 18), 1999 | Treatment rather than prevention |
| Saitz, R., Palfai, T. P., Cheng, D. M., Alford, D. P., Bernstein, J. A., Lloyd-Travaglini, C. A., Meli, S. M., Chaisson, C. E., Samet, J. H., Screening and brief intervention for drug use in primary care: the ASPIRE randomized clinical trial, <i>Jama</i> , 312, 502-13, 2014 | Includes universal screening |
| Salvo, N., Bennett, K., Cheung, A., Chen, Y., Rice, M., Rush, B., Bullock, H., Bowlby, A., Prevention of substance use in children/adolescents with mental disorders: a systematic review (Provisional abstract), <i>Journal of the Canadian Academy of Child and Adolescent Psychiatry</i> , 21, 245-252, 2012 | Systematic review but only a maximum of 50% of included studies meet our eligibility criteria |
| Sambrano, S., Springer, J. F., Sale, E., Kasim, R., Hermann, J., Understanding prevention effectiveness in real-world settings: the National Cross-Site Evaluation of high risk youth programs, <i>The American journal of drug and alcohol abuse</i> , 31, 491-513, 2005 | Not clear if intervention is targeted at a group of interest |
| Sandler, I., Wolchi, S. A., Cruden, G., Mahrer, N. E., Ahn, S., Brincks, A., Brown, C. H., Overview of meta-analyses of the prevention of mental health, substance use, and conduct problems, <i>Annual Review of Clinical Psychology</i> , 10, 243-273, 2014 | Review of meta-analyses but only 13% of included meta-analyses potentially meet our eligibility criteria |
| Santos, G., Das, M., Colfax, G. N., Interventions for Non-Injection Substance Use Among US Men Who Have Sex with Men: What is Needed, <i>AIDS and Behavior</i> , 15, S51-S56, 2011 | Study design (not primary research or a systematic review) |

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Excluded studies

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| Santos, Glenn-Milo S., Substance use and alcohol among key populations at risk for HIV: Novel approaches in intervention development and evaluation, Dissertation Abstracts International: Section B: The Sciences and Engineering, 75, No-Specified, 2015 | Paper unavailable |
| Saunders, D. M., Religious approaches to the secondary and tertiary prevention of substance abuse: Their efficacy in reducing risk factors among late adolescents and young adults. (spirituality, intervention), Dissertation Abstracts International Section A: Humanities and Social Sciences, 59, 4070, 1999 | Dissertation abstract |
| Schaub, M., Sullivan, R., Stark, L., Snow control - an RCT protocol for a web-based self-help therapy to reduce cocaine consumption in problematic cocaine users, BMC Psychiatry, 11, 153, 2011 | Protocol |
| Scheier, L. M., Hansen, W. B., Parenting and teen drug use: The most recent findings from research, prevention, and treatment, Parenting and teen drug use: The most recent findings from research, prevention, and treatment., 2014 | Paper unavailable |
| Scheier, L., Handbook of drug use etiology: Theory, methods, and empirical findings, Handbook of drug use etiology: Theory, methods, and empirical findings., 2010 | Book - no relevant data to extract |
| Schulte, D. J., Use MAPS to prevent prescription drug abuse, The Journal of the Michigan Dental Association, 95, 14, 2013 | Not primary research (legal counsel/letter) |
| Schwartz, S. J., Phelps, E., Lerner, J. V., Huang, S., Brown, C. H., Lewin-Bizan, S., Li, Y., Lerner, R. M., Promotion as prevention: Positive youth development as protective against tobacco, alcohol, illicit drug, and sex initiation, Applied Developmental Science, 14, 197-211, 2010 | Study design (correlational study) |
| Sharma, M., Branscum, P., School-based drug abuse prevention programs in high school students, Journal of Alcohol and Drug Education, 57(3), 51-65, 2013 | Universal schools paper |
| Sharp, R. N., McLaughlin, R. J., McClanahan, K. M., Psychology in school-based prevention, early intervention, treatment and abstinence maintenance - Some responses to marijuana use in the schools, School psychology international, 20, 87-103, 1999 | Universal schools paper |
| Shek, D.T. L., Yu, L., A review of validated youth prevention and positive youth development programs in Asia, International Journal of Adolescent Medicine and Health, 23, 317-24, 2011 | Reviews literature from countries not in scope |
| Shetgiri, R., Kataoka, S., Lin, H., Flores, G., A randomized, controlled trial of a school-based intervention to reduce violence and substance use in predominantly Latino high school students, Journal of the National Medical Association, 103, 932-40, 2011 | Not all participants fall into a target group of interest |
| Shetty, V., Murphy, D. A., Zigler, C., Yamashita, D. R., Belin, T. R., Randomized controlled trial of personalized motivational interventions in substance using patients with facial injuries, Journal of oral and maxillofacial surgery : official journal of the American Association of Oral and Maxillofacial Surgeons, 69, 2396-411, 2011 | Not all participants fall into a target group of interest |
| Skara, S., Sussman, S., A review of 25 long-term adolescent tobacco and other drug use prevention program evaluations (Structured abstract), Preventive Medicine, 37, 451-474, 2003 | Does not meet systematic review criteria |
| Skiba, D., Monroe, J., Wodarski, J. S., Adolescent substance use: reviewing the effectiveness of prevention strategies, 49, 343 - 353, 2004 | Does not meet systematic review criteria |
| Slesnick, N., Dashora, P., Letcher, A., Erdem, G., Serovich, J., A review of services and interventions for runaway and homeless youth: Moving forward, Children and Youth Services Review, 31, 732-742, 2009 | Does not meet systematic review criteria |
| Slesnick, N., Guo, X., Brakenhoff, B., Bantchevska, D., A comparison of three interventions for homeless youth evidencing substance use disorders: results of a randomized clinical trial, Journal of Substance Abuse Treatment, 54, 1-13, 2015 | Treatment rather than prevention |
| Smith, D., Leve, L., Chamberlain, P., Preventing internalizing and externalizing problems in girls in foster care as they enter middle school: immediate impact of an intervention, Prevention Science, 12 (3), 269-277 | No drug misuse prevention intervention described |
| Smyth, N. J., Saulnier, C. F., Substance abuse prevention among high risk youth, Journal of Prevention & Intervention Community, 14, 61-79, 1996 | Does not meet systematic review criteria |
| Sohn, A., The evaluation of a comprehensive substance use prevention and reduction program implemented in an alternative high school setting, 2000 | Paper unavailable |
| Solomon, D., Grewal, P., Taylor, C., Solomon, B., Managing misuse of novel psychoactive substances, Nursing times, 110, 12-5, 2014 | Not primary research (narrative overview/discussion paper) |
| Soole, D. W., Mazerolle, L., Rombouts, S., School-based drug prevention programs: A review of what works, Australian & New Zealand Journal of Criminology, 41, 259-286, 2008 | Review of universal school interventions |

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Excluded studies

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| Speirs, V., Johnson, M., Jirojwong, S., A systematic review of interventions for homeless women, <i>Journal of clinical nursing</i> , 22, 1080-1093, 2013 | Systematic review but only 33% of included studies meet our eligibility criteria |
| Spoth, R., Trudeau, L., Redmond, C., Shin, C., Replication RCT of early universal prevention effects on young adult substance misuse, <i>Journal of Consulting and Clinical Psychology</i> , 82, 949-63, 2014 | Not targeted at a group of interest |
| Spoth, R., Trudeau, L., Shin, C.I, Ralston, E., Redmond, C., Greenberg, M., F., Mark, Longitudinal effects of universal preventive intervention on prescription drug misuse: three randomized controlled trials with late adolescents and young adults, <i>American Journal of Public Health</i> , 103, 665-72, 2013 | Not targeted at a group of interest |
| Spoth, Ri., Redmond, C., Shin, C.I, Greenberg, M., Feinberg, M., Schainker, L., PROSPER community-university partnership delivery system effects on substance misuse through 6 1/2 years past baseline from a cluster randomized controlled intervention trial, <i>Preventive Medicine</i> , 56, 190-6, 2013 | Not targeted at a group of interest |
| Springer, J. F., Sale, E., Hermann, J., Sambrano, S., Kasim, R., Nistler, M., Characteristics of effective substance abuse prevention programs for high-risk youth, <i>The Journal of Primary Prevention</i> , 25, 171-194, 2004 | Not clear if all interventions included in the evaluation were targeted at groups of interest |
| Springer, J. F., Sambrano, S., Sale, E., Kasim, R., Herman, J., The National Cross-Site Evaluation of High-Risk Youth Programs. Preventing Substance Abuse: Major Findings from the National Cross-Site Evaluation of High-Risk Youth Programs. Monograph Series, 2002 | Not clear if all interventions included in the evaluation were targeted at groups of interest |
| Springer, J. F., Wright, L. S., McCall, G. J., Family interventions and adolescent resiliency: The Southwest Texas State High-Risk Youth Program, <i>Journal of Community Psychology</i> , 25, 435-452, 1997 | Not targeted at a group of interest |
| St Pierre, T. L., Mark, M. M., Kaltreider, D L., Campbell, B., Boys & girls clubs and school collaborations: A longitudinal study of a multicomponent substance abuse prevention program for high-risk elementary school children, <i>Journal of Community Psychology</i> , 29, 87-106, 2001 | Not targeted at a group of interest |
| St. Pierre, T. L., Kaltreider, D. L., Reflections on implementing a community agency-school prevention program, <i>Journal of Community Psychology</i> , 29, 107-116, 2001 | Not clear if intervention is targeted at a group of interest |
| Stead, M., Angus, K., Literature review into the effectiveness of school drug education, 2004 | Review of universal school interventions |
| Steiker, L. K. H., Goldbach, J., Hopson, L. M., Powell, T., The value of cultural adaptation processes: Older youth participants as substance abuse preventionists, <i>Child & Adolescent Social Work Journal</i> , 28, 495-509, 2011 | Not targeted at a group of interest |
| Stein, M. D., Hagerty, C. E., Herman, D. S., Phipps, M. G., Anderson, B. J., A brief marijuana intervention for non-treatment-seeking young adult women, <i>Journal of Substance Abuse Treatment</i> , 40, 189-198, 2011 | Not all participants fall into a target group of interest |
| Stein, Michael D., Herman, Debra S., Anderson, Bradley J., A motivational intervention trial to reduce cocaine use, <i>Journal of Substance Abuse Treatment</i> , 36, 118-25, 2009 | Treatment rather than prevention |
| Sterling, S., Valkanoff, T., Hinman, A., Weisner, C., Integrating substance use treatment into adolescent health care, <i>Current psychiatry reports</i> , 14, 453-61, 2012 | SBIRT study - includes universal screening |
| Stevenson, J. F., Community-Level Collaboration for Substance Abuse Prevention, <i>Journal of Primary Prevention</i> , 23, Spr-404, 2003 | Book - no relevant data to extract |
| Stoil, M. J., Hill, G. A., Jansen, M. A., Sambrano, S., Winn, F. J., Benefits of community-based demonstration efforts: Knowledge gained in substance abuse prevention, <i>Journal of Community Psychology</i> , 28, 375-389, 2000 | Does not meet systematic review criteria |
| Strand, P. S., Treating antisocial behavior: a context for substance abuse prevention, 22, 707 - 728, 2002 | Does not meet systematic review criteria |
| Strang, J., McCambridge, J., Can the practitioner correctly predict outcome in motivational interviewing?, <i>Journal of Substance Abuse Treatment</i> , 27, 83-88, 2004 | Relevant outcomes already extracted from McCambridge & Strang 2004 |
| Straussner, S. L. A., Fewell, C. H., Children of substance-abusing parents: Dynamics and treatment, <i>Children of substance-abusing parents: Dynamics and treatment.</i> , 2011 | Book - no relevant data to extract |
| Strike, C., Rotondi, M., Kolla, G., Roy, E., Rotondi, N. K., Rudzinski, K., Balian, R., Guimond, T., Penn, R., Silver, R. B., Millson, M., Sirois, K., Altenberg, J., Hunt, N., Interrupting the social processes linked with initiation of injection drug use: results from a pilot study, <i>Drug and Alcohol Dependence</i> , 137, 48-54, 2014 | Not targeted at a group of interest |

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Excluded studies

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| Strout, M., Evidence-based practices for substance abuse prevention: Reports from the front line, Dissertation Abstracts International Section A: Humanities and Social Sciences, 68, 1184, 2007 | Dissertation abstract |
| Substance misuse: the implications of research, policy and practice, 240p., 2010 | No relevant outcome data reported |
| Sun, W., Skara, S., Sun, P., Dent, C. W., Sussman, S., Project Towards No Drug Abuse: long-term substance use outcomes evaluation, Preventive Medicine, 42, 188-92, 2006 | Universal school intervention (alternative/continuation high schools) |
| Sussman, S. Y., Evaluating the efficacy of Project TND: Evidence from seven research trials, Handbook of adolescent drug use prevention: Research, intervention strategies, and practice., 159-176, 2015 | Paper unavailable |
| Sussman, S., Arriaza, B., Grigsby, T. J., Alcohol, tobacco, and other drug misuse prevention and cessation programming for alternative high school youth: a review, The Journal of school health, 84, 748-58, 2014 | Does not meet systematic review criteria |
| Sussman, S., Dent, C. W., Craig, S., Ritt-Olsen, A., McCuller, W. J., Development and immediate impact of a self-instruction curriculum for an adolescent indicated drug abuse prevention trial, Journal of Drug Education, 32, 121-37, 2002 | Universal school intervention (alternative/continuation high schools) |
| Sussman, S., Dent, C. W., Simon, T. R., Stacy, A.W., Galaif, E. R., Moss, M. A., Craig, S., Johnson, C. A., Immediate impact of social influence-oriented substance abuse prevention curricula in traditional and continuation high schools, Drugs & Society, 8, 65-81, 1995 | Universal school intervention (alternative/continuation high schools) |
| Sussman, S., Dent, C. W., Stacy, A.W., Project towards no drug abuse: a review of the findings and future directions, American Journal of Health Behavior, 26, 354-65, 2002 | Does not meet systematic review criteria |
| Sussman, S., Dent, C.e W., Stacy, A. W., Craig, S., One-year outcomes of Project Towards No Drug Abuse, Preventive Medicine: An International Journal Devoted to Practice and Theory, 27, 632-642, 1998 | Universal school intervention (alternative/continuation high schools) |
| Sussman, S., Earleywine, M., Wills, T., Cody, C., Biglan, T., Dent, C. W., Newcomb, M. D., The motivation, skills, and decision-making model of "drug abuse" prevention, Substance Use & Misuse, 39, 1971-2016, 2004 | Study design (not primary research or a systematic review) |
| Sussman, S., Galaif, E. R., Newman, T., Hennesy, M., Pentz, M. A., Dent, C. W., Stacy, A. W., Moss, M. A., Craig, S., Simon, T. R., Implementation and process evaluation of a student "school-as-community" group. A component of a school-based drug abuse prevention program, Evaluation Review, 21, 94-123, 1997 | Universal school intervention (alternative/continuation high schools) |
| Sussman, S., Rohrbach, L. A., Patel, R., Holiday, K., A look at an interactive classroom-based drug abuse prevention program: interactive contents and suggestions for research, Journal of Drug Education, 33, 355-68, 2003 | Study design (content analysis) |
| Sussman, S., Simon, T. R., Dent, C. W., Stacy, A. W., Galaif, E. R., Moss, M. A., Craig, S., Johnson, C. A., Immediate impact of thirty-two drug use prevention activities among students at continuation high schools, Substance Use & Misuse, 32, 265-81, 1997 | Universal school intervention (alternative/continuation high schools) |
| Sussman, S., Skara, S., Pumpuang, P., Project Towards No Drug Abuse (TND): needs assessment of a social service referral telephone program for high risk youth, Substance Use & Misuse, 43, 2066-73, 2008 | Not targeted at a group of interest |
| Sussman, S., Sun, P., McCuller, W. J., Dent, C. W., Project Towards No Drug Abuse: two-year outcomes of a trial that compares health educator delivery to self-instruction, Preventive Medicine, 37, 155-62, 2003 | Universal school intervention (alternative/continuation high schools) |
| Sussman, S., Sun, P., Rohrbach, L. A., Spruijt-Metz, D., One-year outcomes of a drug abuse prevention program for older teens and emerging adults: evaluating a motivational interviewing booster component, Health psychology : official journal of the Division of Health Psychology, American Psychological Association, 31, 476-85, 2012 | Universal school intervention (alternative/continuation high schools) |
| Suydam, L., Garcia, A., School nurses connect schools and parents from home to homeroom to prevent teen medicine abuse, NASN school nurse (Print), 25, 170-1, 2010 | Does not meet systematic review criteria |
| Tait, R. J., Hulse, G. K., A systematic review of the effectiveness of brief interventions with substance using adolescents by type of drug, Drug and Alcohol Review, 22, 337-346, 2003 | Does not meet systematic review criteria |

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Excluded studies

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| Tait, R. J., Spijkerman, R., Riper, H., Internet and computer based interventions for cannabis use: A meta-analysis, <i>Drug and Alcohol Dependence</i> , 133, 295-304, 2013 | Systematic review but only 40% of included studies potentially meet our eligibility criteria |
| Teesson, M., Newton, N. C., Barrett, E. L., Australian school-based prevention programs for alcohol and other drugs: A systematic review, <i>Drug & Alcohol Review</i> , 31, 731-736, 2012 | Review of universal school interventions |
| Teesson, M., Newton, N., Slade, T., Conrod, P., An integrated approach to substance use prevention for high-and lowrisk youth: The cap intervention, <i>Alcoholism: Clinical and Experimental Research</i> , 37, 148a, 2013 | Conference abstract |
| Thomas Roger, E., Lorenzetti, Diane, Spragins, Wendy, Mentoring adolescents to prevent drug and alcohol use, <i>Cochrane Database of Systematic Reviews</i> , 2011 | Not targeted at a group of interest |
| Thomas, R. E., Lorenzetti, D. L., Spragins, W., Systematic review of mentoring to prevent or reduce alcohol and drug use by adolescents, <i>Academic Pediatrics</i> , 13, 292-299, 2013 | Systematic review but only 67% of included studies meet our eligibility criteria |
| Thompson Sanna, J., Pomeroy Elizabeth, C., Gober, Kelly, Family-Based Treatment Models Targeting Substance Use and High-Risk Behaviors among Adolescents: A Review, <i>Journal of Evidence-Based Social Work</i> , 2, 207-233, 2005 | Does not meet systematic review criteria |
| Thompson, E. A., Horn, M., Herting, J. R., Eggert, L. L., Enhancing outcomes in an indicated drug prevention program for high-risk youth, <i>Journal of Drug Education</i> , 27, 19-41, 1997 | Not clear if all participants fall into a target group of interest |
| Tiderington, E., Stanhope, V., Henwood, B. F., A qualitative analysis of case managers' use of harm reduction in practice, <i>Journal of Substance Abuse Treatment</i> , 44, 71-7, 2013 | Housing First study - unclear if intervention includes drug misuse prevention elements |
| Tidey, J. W., Using incentives to reduce substance use and other health risk behaviors among people with serious mental illness, <i>Preventive Medicine</i> , 55 Suppl, S54-60, 2012 | Does not meet systematic review criteria |
| Tobler, N. S., Lessard, T., Marshall, D., Ochshorn, P., Roona, M., Effectiveness of school-based drug prevention programs for marijuana use, <i>School psychology international</i> , 20, 105-137, 1999 | Review of universal school interventions |
| Tobler, N. S., Lessons learned, <i>Journal of Primary Prevention</i> , 20, 261-274., 2000 | Study design (not primary research or a systematic review) |
| Tobler, N. S., Roona, M. R., Ochshorn, P., Marshall, D. G., Streke, A. V., Stackpole, K. M., School-based adolescent drug prevention programs: 1998 Meta-analysis, <i>Journal of Primary Prevention</i> , 20, 275-336, 2000 | Meta-analysis of universal school interventions |
| Tobler, N. S., Stratton, H. H., Effectiveness of school-based drug prevention programs: A meta-analysis of the research, <i>Journal of Primary Prevention</i> , 18, 71-128, 1997 | Meta-analysis of universal school interventions |
| Tolan, P., Henry, D., Schoeny, M., Bass, A., Lovegrove, P., Nichols, E., Mentoring Interventions to Affect Juvenile Delinquency and Associated Problems: A Systematic Review, 2013 | Systematic review but only 9% of included studies meet our eligibility criteria |
| Tossmann, H. P., Jonas, B., Tensil, M. D., Lang, P., Strüber, E., A controlled trial of an internet-based intervention program for cannabis users, <i>Cyberpsychology, behavior and social networking</i> , 14, 673-9, 2011 | Treatment rather than prevention |
| Toumbourou, J. W., Stockwell, T., Neighbors, C., Marlatt, G. A., Sturge, J., Rehm, J., Interventions to reduce harm associated with adolescent substance use, <i>Lancet (London, England)</i> , 369, 1391-401, 2007 | Does not meet systematic review criteria |
| Tozer, K., Tzemis, D., Amlani, A., Coser, L., Taylor, D., Van Borek, N., Saewyc, E., Buxton, J. A., Reorienting risk to resilience: street-involved youth perspectives on preventing the transition to injection drug use, <i>BMC Public Health</i> , 15, 800, 2015 | No drug misuse prevention intervention described |
| Tunnard, J., Parental drug misuse: a review of impact and intervention studies, 2002 | Does not meet systematic review criteria |
| Uk Drug Policy Commission, Drugs and diversity: lesbian, gay, bisexual and transgender (LGBT) communities: learning from the evidence, 4p., 2010 | Does not meet systematic review criteria |
| United Nations Office on Drugs and Crime (UNDOC), International Standards on Drug Prevention: Appendix II Annex V, UN, 2015 | Systematic review but 0 included studies meet our eligibility criteria |
| Valentine, J., Gottlieb, B., Keel, S., Griffith, J., Ruthazer, R., Measuring the effectiveness of the Urban Youth Connection: the case for dose-response modeling to demonstrate the impact of an adolescent substance abuse prevention program, <i>Journal of Primary Prevention</i> , 18, 363-87, 1998 | Not clear if participants fall into a target group of interest |

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Excluded studies

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| Van Hout, M. C., Foley, M., McCormack, A., Tardif, E., Teachers' perspectives on their role in school-based alcohol and cannabis prevention, <i>International Journal of Health Promotion and Education</i> , 50, 328-341, 2012 | Universal schools paper |
| Vander Laenen, F., How drug policy should (not) be: Institutionalised young people's perspectives, <i>International Journal of Drug Policy</i> , 22, 491-497, 2011 | Not targeted at a group of interest |
| Watson, D. P., Wagner, D. E., Rivers, M., Understanding the critical ingredients for facilitating consumer change in housing first programming: a case study approach, <i>The journal of behavioral health services & research</i> , 40, 169-79, 2013 | Housing First study - unclear if intervention includes drug misuse prevention elements |
| Webster-Stratton, C., Rinaldi, J. and, Reid, J. M., Long-term outcomes of Incredible Years Parenting Program: predictors of adolescent adjustment, <i>Child and Adolescent Mental Health</i> , 16, pp38, 2011 | Treatment rather than prevention |
| Webster-Stratton, C., Taylor, T., Nipping early risk factors in the bud: preventing substance abuse, delinquency, and violence in adolescence through interventions targeted at young children (0-8 years), 2, 165 - 192, 2001 | Study design (not primary research or a systematic review) |
| Weiler, L. M., Prevention of substance abuse in juvenile delinquents: Identification of important mentoring processes, <i>Dissertation Abstracts International: Section B: The Sciences and Engineering</i> , 74, No-Specified, 2014 | Not clear if intervention is targeted at a group of interest |
| Weinberg, N. Z., Rahdert, E., Colliver, J. D., Glantz, M. D., Adolescent substance abuse: A review of the past 10 years, <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 37, 252-261, 1998 | Does not meet systematic review criteria |
| Weir, E., Raves: a review of the culture, the drugs and the prevention of harm, <i>Canadian Medical Association Journal</i> , 162, 1843-1848, 2000 | Study design (not primary research or a systematic review) |
| Weiss, F. L., Nicholson, H. J., Friendly PEERsuasion(sm) against substance use: The Girls Incorporated(sm) model and evaluation, <i>Drugs and Society</i> , 12, 7-22, 1998 | Not clear if all participants fall into a target group of interest |
| Werb, D., Buxton, J., Shoveller, J., Richardson, C., Rowell, G., Wood, E., Interventions to prevent the initiation of injection drug use: a systematic review (Provisional abstract), <i>Drug and Alcohol Dependence</i> , 133, 669-676, 2013 | Systematic review but only 13% of included studies meet our eligibility criteria |
| Werch, C. E., Owen, D. M., Iatrogenic effects of alcohol and drug prevention programs, <i>Journal of Studies on Alcohol</i> , 63, 581-590, 2002 | Does not meet systematic review criteria |
| West, S. L., O'Neal, K. K., Project D.A.R.E. outcome effectiveness revisited, <i>American Journal of Public Health</i> , 94, 1027-1029, 2004 | Not clear if intervention is targeted at a group of interest |
| White, D., Pitts, M., Educating young people about drugs: A systematic review, <i>Addiction</i> , 93, 1475-1487, 1998 | Systematic review but only a maximum of 23% of included studies meet our eligibility criteria |
| White, D., Pitts, M., Health promotion with young people for the prevention of substance misuse, 1997 | Not primary research (review summary) |
| Wilson, D. B., Gottfredson, D. C., Najaka, S. S., School-based prevention of problem behaviors: a meta-analysis, <i>Journal of Quantitative Criminology</i> , 17, 247-272, 2001 | Meta-analysis of universal school interventions |
| Windle, M., Windle, R. C., Adolescent tobacco, alcohol and drug use: current findings, <i>Adolescent Medicine: State of the Art Reviews</i> , 10, 153-63, 1999 | Does not meet systematic review criteria |
| Winters, K. C., Fahnhorst, T., Botzet, A., Lee, S., Lalone, B., Brief intervention for drug-abusing adolescents in a school setting: Outcomes and mediating factors, <i>Journal of Substance Abuse Treatment</i> , 42, 279-288, 2012 | Not all participants fall into a target group of interest |
| Winters, K. C., Fawkes, T., Fahnhorst, T., Botzet, A., August, G., A synthesis review of exemplary drug abuse prevention programs in the United States, <i>Journal of Substance Abuse Treatment</i> , 32, 2007 | Does not meet systematic review criteria |
| Winters, K. C., Lee, S., Botzet, A., Fahnhorst, T., Nicholson, A., One-Year Outcomes and Mediators of a Brief Intervention for Drug Abusing Adolescents, <i>Psychology of Addictive Behaviors</i> , 28, 464-474, 2014 | Not all participants fall into a target group of interest |
| Wood, S. K., Eckley, L., Hughes, K., Hardcastle, K. A., Bellis, M. A., Schrooten, J., Demetrovics, Z., Voorham, L., Computer-based programmes for the prevention and management of illicit recreational drug use: A systematic review, <i>Addictive Behaviors</i> , 39, 30-38, 2014 | Systematic review but only a maximum of 40% of included studies meet our eligibility criteria |
| Woodruff, S. I., Eisenberg, K., McCabe, C. T., Clapp, J. D., Hohman, M., Evaluation of California's Alcohol and Drug Screening and Brief Intervention Project for Emergency Department Patients, <i>The western journal of emergency medicine</i> , 14, 263-70, 2013 | SBIRT study - includes universal screening |

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Excluded studies

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| Woolderink, M., Smit, F., van der Zanden, R., Beecham, J., Knapp, M., Paulus, A., Evers, S., Design of an internet-based health economic evaluation of a preventive group-intervention for children of parents with mental illness or substance use disorders, <i>BMC Public Health</i> , 10, 470, 2010 | Not all participants fall into a target group of interest |
| Workman, J. W., Huber, M. J., Ford, J., Mayer, T., Moore, D., Wilson, J. F., Kinzeler, N., The PALS prevention program and its long-term impact on student intentions to use alcohol, tobacco, and marijuana, <i>Journal of Drug Education</i> , 42, 469-85, 2012 | Not clear if intervention is targeted at a group of interest |
| World Health Organisation, Outcome Evaluation Summary Report: WHO/UNODC Global Initiative on Primary Prevention of Substance Abuse, 2007 | All countries included in report are out of scope |
| Xiang, X., A Review of Interventions for Substance Use Among Homeless Youth, <i>Research on Social Work Practice</i> , 23, 34-45, 2013 | Systematic review but only up to 40% of included studies meet our eligibility criteria |
| Yacoubian, G.S., Miller, S., Pianim, S., Kunz, M.I., Orrick, E., Link, T., Palacios, W. R., Peters, R. J., Toward an ecstasy and other club drug (EOCD) prevention intervention for rave attendees, <i>Journal of Drug Education</i> , 34, 41-59, 2004 | No drug misuse prevention intervention described |
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