

# Drug misuse prevention: targeted interventions

Search for Evidence Review 1

*National Institute for Health and Care Excellence*



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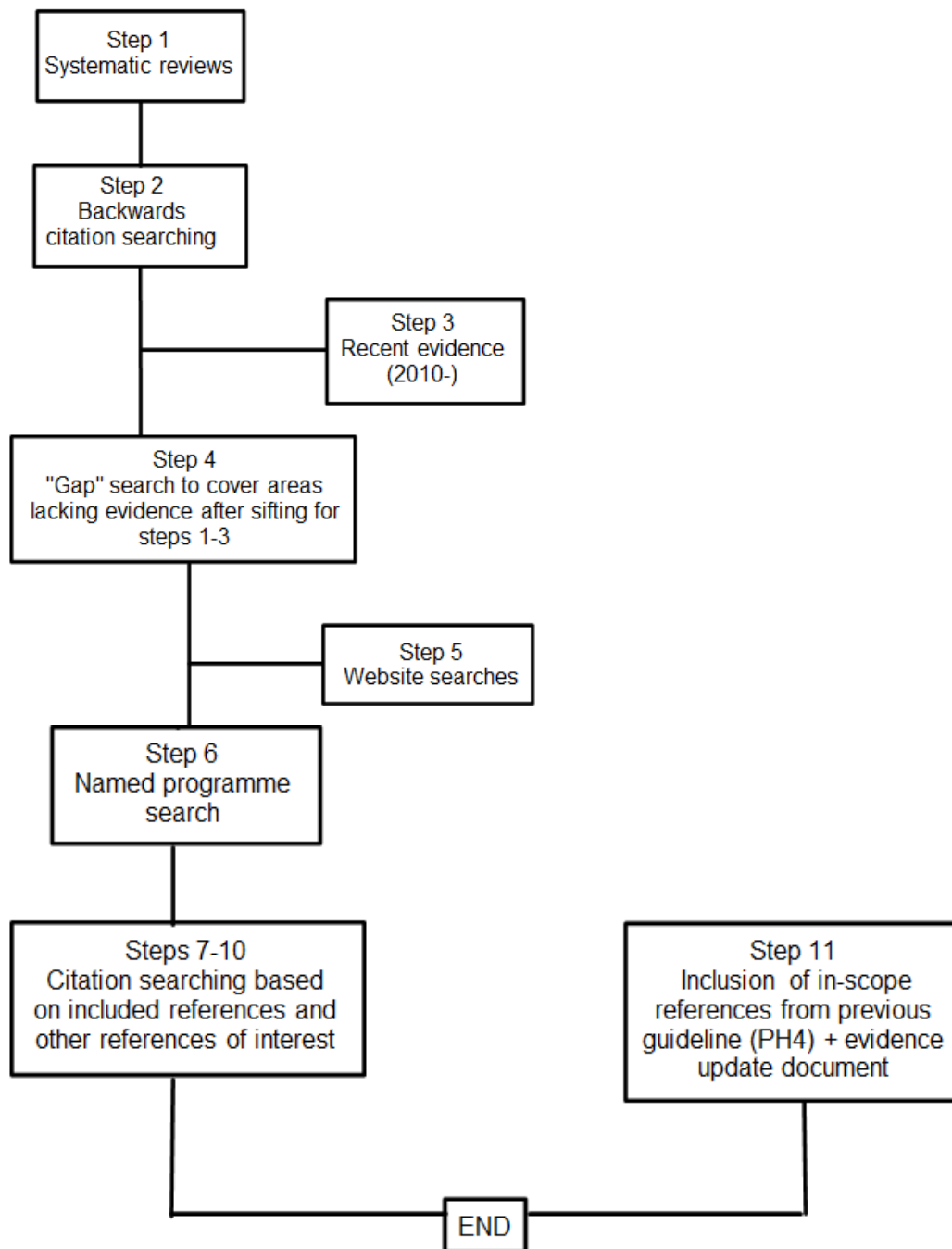
## Appendix 2A: Search strategies

### 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 al<sup>1</sup>. 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 <sup>2</sup>
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
<b>Total</b>				<b>659</b>

### 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

<sup>1</sup> 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.

<sup>2</sup> Note that throughout these totals cover both evidence reviews for the present guideline.

	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 piers 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

<b>Strategy</b>
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

<b>Strategy</b>
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

<b>Strategy</b>	
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 piers 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

109<sup>3</sup> '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).

<sup>3</sup> 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
<b>Total</b>				<b>12384</b>

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.

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

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**

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

#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 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):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	Freertext: ((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	Freertext: (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)
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>
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## 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
<b>Total</b>				<b>7180</b>

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>



- 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.

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.

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.

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.

- 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 "psychoactive*" 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 piers 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 "psychoactive*" 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 piers 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):

[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 samp\*" or "purposive samp\*"):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 <a href="http://www.nets.nihr.ac.uk/projects">http://www.nets.nihr.ac.uk/projects</a>	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 <a href="https://www.gov.uk/government/publications?departments%5B%5D=advisory-council-on-the-misuse-of-drugs">https://www.gov.uk/government/publications?departments%5B%5D=advisory-council-on-the-misuse-of-drugs</a>	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 <a href="http://www.emcdda.europa.eu/publications">http://www.emcdda.europa.eu/publications</a>	4th August 2015	Browsed all publications	11 imported.
UN Office on Drugs & Crime <a href="https://www.unodc.org/unodc/en/drug-prevention-and-treatment/publications.html">https://www.unodc.org/unodc/en/drug-prevention-and-treatment/publications.html</a>	4th August 2015	Browsed all publications under 'drug prevention and treatment section' (see link to left)	4 imported.
Organization of American States <a href="http://www.cicad.oas.org/Main/Template.asp?File=/reduccion_demanda/Pubs_ENG.asp">http://www.cicad.oas.org/Main/Template.asp?File=/reduccion_demanda/Pubs_ENG.asp</a>	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

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

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	

**Additional notes on search approach/construction at this stage**

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.

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.

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.

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U.S. Preventive Services Task Force recommendation statement. <i>Annals of Internal Medicine</i> . 160 p.634-9		
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## 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.