

# Best Evidence Summaries of Topics in Mental Healthcare

**BEST** *in* **MH** *clinical question-answering service*

## Question

“In drug-using offenders with co-occurring mental illness how effective are psychological and non-psychological interventions for reducing criminal activity or drug use, or both?”

## Clarification of question using PICO structure

<i>Patients:</i>	Drug-using offenders with co-occurring mental illness
<i>Intervention:</i>	Psychological and non-psychological interventions
<i>Comparator:</i>	Any
<i>Outcome:</i>	Criminal activity; drug use

## **Clinical and research implications**

One well-conducted systematic review of 5 studies found no evidence for an effect on self-reported drug use or re-arrest but there was some evidence to suggest a reduction in re-incarceration. The trials evaluated case management, therapeutic communities and motivational interviewing with cognitive skills and were conducted in secure settings and the court judicial system in the USA; no studies evaluated interventions in community settings (parole or probation). There was no evidence on the effect of pharmacological interventions.

## **What does the evidence say?**

### ***Number of included studies/reviews (number of participants)***

One Cochrane systematic review of five RCTs (n=1502) was found. This aimed to assess the effectiveness of interventions for drug-using offenders with co-occurring mental illness in reducing criminal activity, drug misuse or both. Interventions evaluated included case management via a mental health court, a therapeutic community and an evaluation of motivational interviewing techniques and cognitive skills. All included studies were conducted in the US.

### ***Main Findings***

There was no evidence that the interventions reduced self-reported drug usage (2 studies; risk ratio (RR) 0.82, 95% confidence interval (CI) 0.44 to 1.55). There was some evidence that the interventions were associated with a reduction in re-incarceration (2 studies; RR 0.40, 95% CI 0.24 to 0.67) but not re-arrest (2 studies; 518 participants; RR1.00, 95% CI 0.90 to 1.12).

### ***Author's Conclusions***

There is a paucity of evidence regarding the effectiveness of interventions on drug use and/or criminal activity in drug-using offenders with co-occurring mental illness. Two of the five trials showed some promising results for the use of therapeutic communities and aftercare, but only in reducing re-incarceration. More well conducted trials are required in this area.

### ***Reliability of conclusions/Strength of evidence***

The systemic review was judged to be at low risk of bias. The literature search was comprehensive, selection criteria were clearly defined, appropriate steps were taken to minimise bias and errors during the review and the statistical synthesis was appropriate. However, it reported that a further three trials that met inclusion criteria were not included in the review as these were still "awaiting classification". It was unclear what was meant by this. A further limitation was that this was an update review and it was unclear how studies included in the original review were incorporated into this review – there was a lack of clarity around the numbers of included studies/publications.

## What do guidelines say?

Neither National Institute for Health and Care Excellence (NICE) nor Scottish Intercollegiate Guidelines Network (SIGN) guidelines make recommendations specifically in relation to the effectiveness of psychological or non-psychological interventions in reducing criminal activity and/or drug misuse in offenders with co-occurring mental illness. However, NICE guidelines for antisocial personality disorder include guidance relevant for the treatment of offenders and those using drugs or other substances, and SIGN guidelines for the management and treatment of schizophrenia make recommendations with regard to patients with co-occurring drug misuse.

NICE guidelines (CG77, 2009) make the following recommendations for the role of psychological and pharmacological intervention in antisocial personality disorder:

### “1.4 Treatment and management of antisocial personality disorder and related and comorbid disorders

The evidence base for the treatment of antisocial personality disorder is limited. In the development of the recommendations set out below these limitations were addressed by drawing on four related sources of evidence, namely, evidence for: (1) interventions targeted specifically at antisocial personality disorder; (2) the treatment and management of the symptoms and behaviours associated with antisocial personality disorder, such as impulsivity and aggression; (3) the treatment of comorbid disorders such as depression and drug misuse; and (4) the management of offending behaviour. Although the focus of several interventions is offending behaviour, the interventions have the potential to help people with antisocial personality disorder address a wider range of antisocial behaviours with consequent benefits for themselves and others.

### “General principles

1.4.1.1 People with antisocial personality disorder should be offered treatment for any comorbid disorders in line with recommendations in the relevant NICE clinical guideline, where available. This should happen regardless of whether the person is receiving treatment for antisocial personality disorder.

1.4.1.2 When providing psychological or pharmacological interventions for antisocial personality disorder, offending behaviour or comorbid disorders to people with antisocial personality disorder, be aware of the potential for and possible impact of:

- poor concordance
- high attrition
- misuse of prescribed medication
- drug interactions (including with alcohol and illicit drugs).

1.4.1.3 When providing psychological interventions for comorbid disorders to people with antisocial personality disorder, consider lengthening their duration or increasing their intensity.

### “The role of psychological interventions

1.4.2.1 For people with antisocial personality disorder, including those with substance misuse problems, in community and mental health services, consider offering group-based cognitive and behavioural interventions, in order to address problems such as impulsivity, interpersonal difficulties and antisocial behaviour.

1.4.2.2 For people with antisocial personality disorder with a history of offending behaviour who are in community and institutional care, consider offering group-based cognitive and behavioural interventions (for example, programmes such as 'reasoning and rehabilitation') focused on reducing offending and other antisocial behaviour.

1.4.2.3 For young offenders aged 17 years or younger with a history of offending behaviour who are in institutional care, offer group-based cognitive and behavioural interventions aimed at young offenders and that are focused on reducing offending and other antisocial behaviour.

1.4.2.4 When providing cognitive and behavioural interventions:

- assess the level of risk and adjust the duration and intensity of the programme accordingly (participants at all levels of risk may benefit from these interventions)
- provide support and encouragement to help participants to attend and complete programmes, including people who are legally mandated to do so.

“The role of pharmacological interventions

1.4.3.1 Pharmacological interventions should not be routinely used for the treatment of antisocial personality disorder or associated behaviours of aggression, anger and impulsivity.

1.4.3.2 Pharmacological interventions for comorbid mental disorders, in particular depression and anxiety, should be in line with recommendations in the relevant NICE clinical guideline. When starting and reviewing medication for comorbid mental disorders, pay particular attention to issues of adherence and the risks of misuse or overdose.

“Drug and alcohol misuse

Drug and alcohol misuse occurs commonly alongside antisocial personality disorder, and is likely to aggravate risk of harm to self and others and behavioural disturbances in people with antisocial personality disorder.

1.4.4.1 For people with antisocial personality disorder who misuse drugs, in particular opioids or stimulants, offer psychological interventions (in particular, contingency management programmes) in line with recommendations in the relevant NICE clinical guideline.

1.4.4.2 For people with antisocial personality disorder who misuse or are dependent on alcohol, offer psychological and pharmacological interventions in line with existing national guidance for the treatment and management of alcohol disorders.

1.4.4.3 For people with antisocial personality disorder who are in institutional care and who misuse or are dependent on drugs or alcohol, consider referral to a specialist therapeutic community focused on the treatment of drug and alcohol problems.” (pp 19-21)

As noted above, SIGN guidelines (SIGN 131, 2013) make no specific reference to *offenders* with schizophrenia, but note the common occurrence of substance misuse in people with schizophrenia and the poorer outcomes for both schizophrenia and substance misuse in those who do misuse drugs or alcohol. In relation to access to services and management of treatment, the guidelines state:

“Comorbid substance misuse should not exclude people with schizophrenia from services or interventions. Management of severe and complex problems may require a joint consultative approach between mental health and substance use services.” (p6)

In relation to non-psychological interventions (i.e. psychopharmacological options), the guidelines make no reference to co-morbid substance misuse and therefore no recommendations specific to treatment for patients with a dual diagnosis of schizophrenia and drug misuse.

Individual CBT was recommended to be “offered to all individuals diagnosed with schizophrenia whose symptoms have not adequately responded to antipsychotic medication and where persisting symptoms and/or depression are being experienced.” (p27), but only one specific reference was made to individual psychological therapies for people diagnosed with schizophrenia and comorbid substance misuse. In this instance, the psychological intervention had an effect on substance misuse:

“Cognitive behavioural therapy for psychosis:

Although integrated motivational interviewing and CBT for people with psychosis and comorbid substance misuse reduced the amount of substance used at one year follow up, this did not have an effect on hospitalisation, symptoms or functioning. “ (p27)

With reference to psychoeducation for offenders with a diagnosis of schizophrenia, SIGN guidelines make the following observation and recommendation:

“Psychoeducation:

One small pilot study (n=39) of group psychoeducation conducted in a forensic setting found improvements in knowledge, self-esteem and insight at three months post-intervention. However, these improvements did not translate to improved symptoms or behaviour.

Psychoeducation should not be offered as a stand-alone treatment intervention to individuals diagnosed with schizophrenia.” (p30)

**Date question received:** 22/01/2015

**Date searches conducted:** 22/01/2015

**Date answer completed:** 13/02/2015

## References

### **SRs**

Perry, A. E., Neilson, M., Martyn-St James, M., Glanville, J. M., McCool, R., Duffy, S., ... Hewitt, C. (2014). Interventions for drug-using offenders with co-occurring mental illness. *Cochrane Database of Systematic Reviews, Issue 1*. Art. No.: CD010901. DOI: 10.1002/14651858.CD010901.

### **Guidelines**

National Institute for Health and Care Excellence (NICE) (2009) Treatment and management of antisocial personality disorder and related comorbid disorders (CG77).

<http://www.nice.org.uk/guidance/cg77/resources/guidance-antisocial-personality-disorder-pdf>

Scottish Intercollegiate Guidelines Network (SIGN), (2013) Management of schizophrenia, (SIGN131). Edinburgh: Scottish Intercollegiate Guidelines Network. <http://www.sign.ac.uk/pdf/sign131.pdf>






## Results

### Systematic Reviews

Author (year)	Search Date	Inclusion criteria	Number of included studies	Summary of results	Risk of bias
Perry et al. (2014)	03/2013	<p><i>Participants:</i> Drug-using offenders with co-occurring mental illness regardless of gender, age or ethnicity.</p> <p><i>Intervention:</i> Case management (via MH drug court); therapeutic communities (TC); motivational interviewing (MI) and cognitive skills.</p> <p><i>Comparator:</i> No treatment; minimal treatment; waiting list; treatment as usual; other treatment.</p> <p><i>Outcome:</i> Primary outcome: (a) drug use, measured by self-report and/or biological measures (urine or hair analysis); (b) criminal activity, measured by self-report or official report of criminal activity. Secondary outcomes: cost or cost-effectiveness.</p> <p><i>Study design:</i> Randomised controlled trials (RCTs)</p>	<p>5 (n= 1502)</p> <p>Additional 3 trials “awaiting classification”</p>	<p>Four studies were held in secure settings. Two studies were conducted in a court setting. Trial-duration ranged between 3 months and 60 months follow-up.</p> <p>Self-reported drug use (2 RCT): RR 0.82, 95% CI 0.44 to 1.55, <math>I^2=80\%</math>.</p> <p>Re-incarceration (4 RCTs): RR 0.40, 95% CI 0.24 to 0.67 (2 RCTs), MD 28.72, 95% CI 5.89 to 51.54,</p> <p>Re-arrest (2 RCTs, 518 participants; RR 1.00, 95% CI 0.90 to 1.12, <math>z = 0.07</math>, <math>p = 0.95</math>).</p>	Low

**Risk of Bias:**

***Systematic reviews***

Author (year)	RISK OF BIAS				
	Inclusion criteria	Searches	Review Process	Quality assessment	Synthesis
Perry et al. (2014)					

KEY:  Low Risk  High Risk  Unclear Risk

## Search Details

Source	Search Strategy	Number of hits	Relevant evidence identified
<b><i>SRs and Guidelines</i></b>			
NICE	Mental illness offenders	32	1
SIGN	Mental illness offenders	2	1
NICE	Offenders drug use mental illness	28	0
SIGN	Offenders drug use mental illness	2	0
<b><i>Primary studies</i></b>			
CENTRAL	#1 prison* 697 #2 offender* 592 #3 (criminal* or probation or court*) 2966 #4 (secure next establishment*) 5 #5 reoffend* 30 #6 reincarcerat* 17 #7 recidiv* 763 #8 exoffend* 3 #9 (jail or jails or incarcerat*) 488 #10 (secure next facilit*) 7 #11 (convict* or revocation or inmate* or (high next security)) 455 #12 MeSH descriptor: [Prisoners] explode all trees 224 #13 MeSH descriptor: [Law Enforcement] explode all trees 32 #14 MeSH descriptor: [Jurisprudence] explode all trees 1293 #15 MeSH descriptor: [Crime] explode all trees 1441 #16 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 6909 #17 MeSH descriptor: [Substance-Related Disorders] explode all trees 9534 #18 ((substance or drug*) next (abuse* or misuse* or dependen* or use* or addict*)) 5372 #19 (narcotics or chemical or opiate) next (dependen* or addict* or abuse* or misuse*) 609	79	



	<p>#20 ((heroin) next (addict* or dependen* or misuse* or abuse*)) 841  #21 ((crack) next (addict* or dependen* or misuse* or abuse* or use*)) 53  #22 ((cocaine next addict*) or (cocaine next dependenc*) or (cocaine next misuse*) or (cocaine next abuse*) or (cocaine next use*)) 1227  #23 ((amphetamine*) next (addict* or dependen* or misuse* or abuse* or use*)) 68  #24 (addicts or (dependence next disorder) or (drug next involved)) 599  #25 (street next drugs) 176  #26 MeSH descriptor: [Street Drugs] explode all trees 221  #27 MeSH descriptor: [Designer Drugs] explode all trees 5  #28 MeSH descriptor: [Narcotics] explode all trees 5923  #29 MeSH descriptor: [Cocaine] explode all trees 602  #30 MeSH descriptor: [Amphetamines] explode all trees 1130  #31 MeSH descriptor: [Analgesics, Opioid] explode all trees 5215  #32 MeSH descriptor: [Psychotropic Drugs] explode all trees 11640  #33 opioid* or opiat* 12949  #34 #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 36027  #35 #16 and #34</p>		
PsycINFO	<ol style="list-style-type: none"> <li>1. PsycINFO; exp "SUBSTANCE-RELATED-DISORDERS"/; 0 results.</li> <li>2. PsycINFO; ((drug OR substance) adj1 (abuse* OR addict* OR dependen* OR misuse*)).ti,ab; 48794 results.</li> <li>3. PsycINFO; (drug* adj1 (treat* OR intervention* OR program*)).ti,ab; 9991 results.</li> <li>4. PsycINFO; (substance AND near AND (treat* OR intervention* OR program*)).ti,ab; 121 results.</li> <li>5. PsycINFO; (detox* OR methadone).ti,ab; 9401 results.</li> <li>6. PsycINFO; (narcotic* AND near AND (treat* OR intervention* OR program*)).ti,ab; 7 results.</li> <li>7. PsycINFO; 1 or 2 or 3 or 4 or 5 or 6; 64090 results.</li> <li>8. PsycINFO; prison*.ti,ab; 17580 results.</li> <li>9. PsycINFO; exp "PRISONERS"/; 9246 results.</li> <li>10. PsycINFO; (offender* OR criminal* OR inmate* OR convict* OR probation* OR remand OR felon*).ti,ab; 63064 results.</li> <li>11. PsycINFO; exp "PRISONS"/; 5426 results.</li> <li>12. PsycINFO; 8 or 9 or 10 or 11; 72744 results.</li> <li>13. PsycINFO; 7 and 12; 5436 results.</li> </ol>	63	

	<p>14. PsycINFO; CLINICAL TRIALS/ [Limit to: Publication Year 1860-2014]; 8256 results.</p> <p>15. PsycINFO; random*.ti,ab [Limit to: Publication Year 1860-2014]; 136970 results.</p> <p>16. PsycINFO; (doubl* adj3 blind*).ti,ab [Limit to: Publication Year 1860-2014]; 18909 results.</p> <p>17. PsycINFO; (singl* adj3 blind*).ti,ab [Limit to: Publication Year 1860-2014]; 1739 results.</p> <p>18. PsycINFO; EXPERIMENTAL DESIGN/ [Limit to: Publication Year 1860-2014]; 9432 results.</p> <p>19. PsycINFO; controlled.ti,ab [Limit to: Publication Year 1860-2014]; 84853 results.</p> <p>20. PsycINFO; (clinical adj3 study).ti,ab [Limit to: Publication Year 1860-2014]; 8286 results.</p> <p>21. PsycINFO; trial.ti,ab [Limit to: Publication Year 1860-2014]; 72071 results.</p> <p>22. PsycINFO; "treatment outcome clinical trial".md [Limit to: Publication Year 1860-2014]; 28691 results.</p> <p>23. PsycINFO; 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 [Limit to: Publication Year 1860-2014]; 259880 results.</p> <p>24. PsycINFO; 13 AND 23 [Limit to: Publication Year 1860-2014]; 560 results.</p> <p>25. PsycINFO; 24 [Limit to: Publication Year 2013-2015]; 63 results.</p>		
Embase	<p>1. EMBASE; (detox\$ OR methadone OR antagonist AND prescri\$).ti,ab; 3489 results.</p> <p>2. EMBASE; DETOXIFICATION/ OR DRUG DETOXIFICATION/; 21408 results.</p> <p>3. EMBASE; DRUG WITHDRAWAL/; 116510 results.</p> <p>4. EMBASE; DRUG DEPENDENCE TREATMENT/; 6737 results.</p> <p>5. EMBASE; METHADONE/ OR METHADONE TREATMENT/; 23674 results.</p> <p>6. EMBASE; DIAMORPHINE/; 17407 results.</p> <p>7. EMBASE; NALTREXONE/; 11158 results.</p> <p>8. EMBASE; (diamorphine OR naltrexone OR therapeutic AND communit\$).ti,ab; 11930 results.</p> <p>9. EMBASE; MORALITY/; 26658 results.</p> <p>10. EMBASE; ((motivational interview\$) OR (motivational enhancement)).ti,ab; 4095 results.</p> <p>11. EMBASE; (counselling OR counseling).ti,ab; 79213 results.</p> <p>12. EMBASE; exp COUNSELING/; 109368 results.</p> <p>13. EMBASE; (psychotherap\$ OR (cognitive behavioral) OR (cognitive behavioural)).ti,ab; 94948 results.</p> <p>14. EMBASE; exp PSYCHOTHERAPY/; 184219 results.</p> <p>15. EMBASE; (moral adj3 training).ti,ab; 43 results.</p> <p>16. EMBASE; (cognitive AND restructuring OR assertiveness AND training).ti,ab; 645 results.</p> <p>17. EMBASE; REINFORCEMENT/ OR SELF MONITORING/ OR SELF CONTROL/; 37089 results.</p> <p>18. EMBASE; ((relaxation training OR rational emotive OR family relationship therap\$)).ti,ab; 3783 results.</p> <p>19. EMBASE; SOCIAL LEARNING/ OR WITHDRAWAL SYNDROME/ OR COPING BEHAVIOR/; 60281 results.</p>	154	

	<p>20. EMBASE; ((community reinforcement OR self monitoring OR self control OR self management OR interpersonal skills)).ti,ab; 7501 results.</p> <p>21. EMBASE; (goal\$ adj3 setting).ti,ab; 3808 results.</p> <p>22. EMBASE; (social AND skills adj3 training).ti,ab; 2629 results.</p> <p>23. EMBASE; ANGER/ OR LIFESTYLE/; 87244 results.</p> <p>24. EMBASE; (basic AND skills adj3 training).ti,ab; 1863 results.</p> <p>25. EMBASE; ((relapse adj3 prevent\$)).ti,ab; 7780 results.</p> <p>26. EMBASE; (craving adj3 (minimi\$ OR reduc\$)).ti,ab; 770 results.</p> <p>27. EMBASE; ((trigger OR triggers OR coping skills OR anger management OR group work)).ti,ab; 90140 results.</p> <p>28. EMBASE; (lifestyle adj3 modifi\$).ti,ab; 6457 results.</p> <p>29. EMBASE; (high AND intensity AND training OR resettlement OR throughcare OR aftercare OR after AND care).ti,ab; 224980 results.</p> <p>30. EMBASE; AFTERCARE/ OR HALFWAY HOUSE/; 6141 results.</p> <p>31. EMBASE; (brief solution) or (brief intervention\$) or (minnesota program\$) or (12 step\$) or (twelve step\$); 59455 results.</p> <p>32. EMBASE; ((needle exchange OR nes OR syringe exchange OR dual diagnosis OR narcotics anonymous)).ti,ab; 159 results.</p> <p>33. EMBASE; SELF HELP/ OR SUPPORT GROUP/; 18998 results.</p> <p>34. EMBASE; (self-help OR selfhelp OR self AND help OR outreach OR bail AND support OR arrest AND referral\$).ti,ab; 947 results.</p> <p>35. EMBASE; exp URINALYSIS/ OR REHABILITATION/ OR REHABILITATION CENTER/; 130811 results.</p> <p>36. EMBASE; ((diversion OR dtto OR dttos OR drug treatment OR testing order\$ OR carat OR carats)).ti,ab; 48968 results.</p> <p>37. EMBASE; ((combined orders OR drug-free OR drug free)).ti,ab; 55853 results.</p> <p>38. EMBASE; ((peer support OR evaluation\$ OR urinalysis OR drug testing OR drug test OR drug tests)).ti,ab; 43167 results.</p> <p>39. EMBASE; (((rehab OR rehabilitation OR residential OR discrete) adj2 (service\$ OR program\$))).ti,ab; 22148 results.</p> <p>40. EMBASE; (asro OR addressing AND substance\$ OR pasro OR prisons AND addressing OR acupuncture OR shock OR boot AND camp OR boot AND camps).ti,ab; 42 results.</p> <p>41. EMBASE; (work AND ethic AND camp\$ OR drug AND education OR tasc OR treatment AND</p>		
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	<p>accountability).ti,ab; 887 results.</p> <p>42. EMBASE; exp ACUPUNCTURE/; 32334 results.</p> <p>43. EMBASE; 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31 OR 32 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39 OR 40 OR 41 OR 42; 1354111 results.</p> <p>44. EMBASE; (remand OR prison OR prisoner OR prisoners OR offender\$ OR criminal\$ OR probation OR court OR courts).ti,ab; 53983 results.</p> <p>45. EMBASE; (secure AND establishment\$ OR secure AND facilit\$).ti,ab; 1845 results.</p> <p>46. EMBASE; (reoffend\$ OR reincarcerat\$ OR recidivi\$ OR ex-offender\$ OR jail OR jails OR goal OR goals).ti,ab; 285145 results.</p> <p>47. EMBASE; (incarcerat\$ OR convict OR convicts OR convicted OR felon OR felons OR conviction\$ OR revocation OR inmate\$ OR high AND security).ti,ab; 5623 results.</p> <p>48. EMBASE; CRIMINAL JUSTICE/ OR CUSTODY/ OR DETENTION/ OR PRISON/ OR PRISONER/ OR OFFENDER/ OR PROBATION/; 38221 results.</p> <p>49. EMBASE; COURT/ OR RECIDIVISM/ OR CRIME/; 26439 results.</p> <p>50. EMBASE; CRIMINAL BEHAVIOR/ OR PUNISHMENT/; 14923 results.</p> <p>51. EMBASE; 44 OR 45 OR 46 OR 47 OR 48 OR 49 OR 50; 384146 results.</p> <p>52. EMBASE; (substance AND abuse\$ OR substance AND misuse\$ OR substance AND use\$).ti,ab; 60169 results.</p> <p>53. EMBASE; (drug AND dependanc\$ OR drug AND abuse\$ OR drug AND use\$ OR drug AND misuse\$ OR drug AND addict\$).ti,ab; 24393 results.</p> <p>54. EMBASE; (narcotics adj3 (addict\$ OR use\$ OR misuse\$ OR abuse\$)).ti,ab; 1117 results.</p> <p>55. EMBASE; (chemical AND dependanc\$ OR opiates OR heroin OR crack OR cocaine OR amphetamines OR addiction OR dependence AND disorder OR drug AND involved).ti,ab; 55521 results.</p> <p>56. EMBASE; SUBSTANCE ABUSE/ OR DRUG ABUSE/ OR ANALGESIC AGENT ABUSE/ OR DRUG ABUSE PATTERN/; 80999 results.</p> <p>57. EMBASE; DRUG MISUSE/ OR INTRAVENOUS DRUG ABUSE/ OR MULTIPLE DRUG ABUSE/; 14461 results.</p> <p>58. EMBASE; ADDICTION/ OR DRUG DEPENDENCE/ OR NARCOTIC DEPENDENCE/ OR exp NARCOTIC AGENT/ OR NARCOTIC ANALGESIC AGENT/; 273193 results.</p> <p>59. EMBASE; OPIATE ADDICTION/ OR HEROIN DEPENDENCE/ OR MORPHINE ADDICTION/; 19788 results.</p> <p>60. EMBASE; COCAINE/ OR AMPHETAMINE DERIVATIVE/ OR PSYCHOTROPIC AGENT/; 67651 results.</p> <p>61. EMBASE; 52 OR 53 OR 54 OR 55 OR 56 OR 57 OR 58 OR 59 OR 60; 472996 results.</p>		
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	<p>62. EMBASE; 43 AND 51; 61858 results.  63. EMBASE; 61 AND 62; 8490 results.  64. EMBASE; CLINICAL TRIAL/; 837391 results.  65. EMBASE; RANDOMIZED CONTROLLED TRIAL/; 356075 results.  66. EMBASE; RANDOMIZATION/; 64185 results.  67. EMBASE; SINGLE BLIND PROCEDURE/; 19250 results.  68. EMBASE; DOUBLE BLIND PROCEDURE/; 116908 results.  69. EMBASE; CROSSOVER PROCEDURE/; 41027 results.  70. EMBASE; "Randomi?ed controlled trial\$.ti,ab; 107148 results.  71. EMBASE; rct.ti,ab; 15502 results.  72. EMBASE; "Random allocation".ti,ab; 1355 results.  73. EMBASE; "Randomly allocated".ti,ab; 21256 results.  74. EMBASE; ((allocated adj2 random)).ti,ab; 720 results.  75. EMBASE; "Single blind\$.ti,ab; 15025 results.  76. EMBASE; "Double blind\$.ti,ab; 145845 results.  77. EMBASE; (treble ADJ blind\$.ti,ab; 0 results.  78. EMBASE; (triple ADJ blind\$.ti,ab; 410 results.  79. EMBASE; Placebo\$.ti,ab; 206020 results.  80. EMBASE; PROSPECTIVE STUDY/; 270436 results.  81. EMBASE; 64 OR 65 OR 66 OR 67 OR 68 OR 69 OR 47 OR 70 OR 71 OR 72 OR 73 OR 74 OR 75 OR 76 OR 77 OR 78 OR 79 OR 80; 1407163 results.  82. EMBASE; "case report".ti,ab; 270970 results.  83. EMBASE; ABSTRACT REPORT/; 71432 results.  84. EMBASE; LETTER/; 839280 results.  85. EMBASE; 60 OR 82 OR 83 OR 84; 1205188 results.  86. EMBASE; 81 not 85; 1368726 results.  87. EMBASE; 63 [Limit to: Publication Year 2013-2015]; 1203 results.  88. EMBASE; 86 AND 87 [Limit to: Publication Year 2013-2015]; 154 results.</p>		
Medline	<p>1. MEDLINE; exp "SUBSTANCE-RELATED-DISORDERS"/; 226145 results.  2. MEDLINE; ((drug OR substance) adj1 (abuse* OR addict* OR dependen* OR misuse*)).ti,ab; 50434 results.  3. MEDLINE; (drug* adj1 (treat* OR intervention* OR program*)).ti,ab; 34181 results.  4. MEDLINE; (substance AND near AND (treat* OR intervention* OR program*)).ti,ab; 296 results.</p>	52	

	<p>5. MEDLINE; (detox* OR methadone).ti,ab; 41218 results.</p> <p>6. MEDLINE; (narcotic* AND near AND (treat* OR intervention* OR program*)).ti,ab; 28 results.</p> <p>7. MEDLINE; 1 or 2 or 3 or 4 or 5 or 6; 305864 results.</p> <p>8. MEDLINE; prison*.ti,ab; 11357 results.</p> <p>9. MEDLINE; exp "PRISONERS"/; 12666 results.</p> <p>10. MEDLINE; (offender* OR criminal* OR inmate* OR convict* OR probation* OR remand OR felon*).ti,ab; 27992 results.</p> <p>11. MEDLINE; exp "PRISONS"/; 7835 results.</p> <p>12. MEDLINE; 8 or 9 or 10 or 11; 43095 results.</p> <p>13. MEDLINE; 7 and 12; 7509 results.</p> <p>14. MEDLINE; RANDOMIZED CONTROLLED TRIALS AS TOPIC/; 94675 results.</p> <p>15. MEDLINE; RANDOMIZED CONTROLLED TRIAL/; 381906 results.</p> <p>16. MEDLINE; RANDOM ALLOCATION/; 81648 results.</p> <p>17. MEDLINE; DOUBLE-BLIND METHOD/; 126837 results.</p> <p>18. MEDLINE; SINGLE-BLIND METHOD/; 19669 results.</p> <p>19. MEDLINE; CLINICAL TRIAL/; 488224 results.</p> <p>20. MEDLINE; "clinical trial, phase i".pt; 14422 results.</p> <p>21. MEDLINE; "clinical trial, phase ii".pt; 23287 results.</p> <p>22. MEDLINE; "clinical trial, phase iii".pt; 9304 results.</p> <p>23. MEDLINE; "clinical trial, phase iv".pt; 973 results.</p> <p>24. MEDLINE; "controlled clinical trial".pt; 88467 results.</p> <p>25. MEDLINE; "randomized controlled trial".pt; 381906 results.</p> <p>26. MEDLINE; "clinical trial".pt; 488224 results.</p> <p>27. MEDLINE; exp CLINICAL TRIALS AS TOPIC/; 282845 results.</p> <p>28. MEDLINE; (single\$ ADJ blind\$).ti,ab; 11913 results.</p> <p>29. MEDLINE; (doubl\$ ADJ blind\$).ti,ab; 117897 results.</p> <p>30. MEDLINE; (treb\$ ADJ blind\$).ti,ab; 0 results.</p> <p>31. MEDLINE; (trip\$ ADJ blind\$).ti,ab; 364 results.</p> <p>32. MEDLINE; (single\$ ADJ mask\$).ti,ab; 319 results.</p> <p>33. MEDLINE; (doub\$ ADJ mask\$).ti,ab; 2682 results.</p> <p>34. MEDLINE; (treb\$ ADJ mask\$).ti,ab; 0 results.</p> <p>35. MEDLINE; (trip\$ ADJ mask\$).ti,ab; 40 results.</p>		
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	<p>36. MEDLINE; PLACEBOS/; 32470 results.</p> <p>37. MEDLINE; placebo\$.ti,ab; 162169 results.</p> <p>38. MEDLINE; "randomly allocated".ti,ab; 17825 results.</p> <p>39. MEDLINE; (allocated adj2 random\$).ti,ab; 20448 results.</p> <p>40. MEDLINE; 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26 OR 27; 955828 results.</p> <p>41. MEDLINE; 28 OR 29 OR 30 OR 31 OR 32 OR 33 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39; 240393 results.</p> <p>42. MEDLINE; 40 OR 41; 1003856 results.</p> <p>43. MEDLINE; "case report".ti,ab; 213017 results.</p> <p>44. MEDLINE; LETTER/; 857908 results.</p> <p>45. MEDLINE; HISTORICAL ARTICLE/; 304942 results.</p> <p>46. MEDLINE; 43 OR 44 OR 45; 1363951 results.</p> <p>47. MEDLINE; 42 not 46; 976279 results.</p> <p>48. MEDLINE; 13 AND 47; 430 results.</p> <p>49. MEDLINE; 48 [Limit to: Publication Year 2013-2015]; 52 results.</p>		
<b>Summary</b>	<b>NA</b>	<b>NA</b>	

## **Disclaimer**

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