# Characteristics of reviewed studies: Brief interventions

# **Comparisons Included in this Clinical Question**

**CBT: Six sessions versus TAU** 

ONEILL1996

CM versus outreach

MALOTTE1998

MALOTTE1999 MALOTTE2001

SEAL2003

SORENSEN2006

CM versus supportive counselling

ROSEN2007

HIV: motivational interviewing versus TAU

BAKER1993

GIBSON1999 TUCKER2004A HIV: psychoeducation versus standard education

AVANTS2004

COLON1993

ELDRIDGE1997

EPSTEIN2003

HARRIS1998

KOTRANSKI1998

MALOW1994

MARGOLIN2003

SCHILLING1991

SIEGAL1995

SORENSEN1994

STERK2003

HIV: psychoeducation versus waitlist

BAKER1994

WECHSBERG2004

HIV: psychoeducation versus womenfocused psychoeducation

WECHSBERG2004

### Motivational interviewing versus TAU

BAKER2005

BERNSTEIN2005

CARROLL2006A

COPELAND2001

KIDORF2005

MARSDEN2006

MCCAMBRIDGE2004

MILLER2003

MITCHESON2007

STEPHENS2000

STEPHENS2002

STOTTS2001

**Characteristics of Included Studies** 

Methods	Participants	Outcomes	Interventions	Notes
AVANTS2004				
Study Type: RCT (randomised controlled trial)	n= 220	Data Used	Group 1 N= 108	Study quality: 1++
Type of Analysis: ITT (analysed if attended >=1 session)	Age: Mean 37 Sex: 151 males 69 females	Reduced risk behaviours	Psychoeducation with outpatient - 90-min harm-reduction group weekly sessions for 12 weeks. Focused on information,	
Blindness: Open Setting: US MMT programmes	Diagnosis: 100% opioid dependence by DSM-IV		motivation and skills. Sessions included reducing harm of injection drug use, reducing sexual harm, negotiating harm	

DRUG MISUSE: PSYCHOSOCIAL INTERVENTIONS

				App
Notes: RANDOMISATION: by computer Info on Screening Process: 251 approached; 224 gave consent (4 dropped out during intake phase); 220 randomised  Study Type: RCT (randomised controlled trial)  BAKER1993  Blindness: Single blind. Analysis: per protocol.  Duration (days): Mean 42  Followup: 6 months  Setting: Australia, MMT programme  Notes: RANDOMISATION: Stratified on sex and HIV status. Within each couple, both partners allocated to same group to avoid confounding treatment effects.	Exclusions: - <18 years - injection drug user - actively suicidal, homicidal, psychotic Notes: PRIMARY DIAGNOSIS: MMT participants. 75% misused cocaine (by urine or DSM-IV abuse/dependence) ETHNICITY: 66% white, 15% African American, 17% Hispanic Baseline: (Control/psychoeducation) Years' opioid use: 12.3 / 12.8 Years' cocaine use: 11.5 / 12.1 n= 95  Age: Mean 31 Sex: 44 males 51 females Diagnosis: 100% opioid dependence by eligibility for/receipt of MMT 100% IDU (injection drug use) by self-report  Exclusions: - not injected drugs in last 6 months - not agreed to HIV testing - diagnosis of schizophrenia, bipolar disorder, psychosis, organic brain damage  Baseline: HIV status: Six were HIV-positive	Data Used Reduced risk behaviours	reduction with partners and preventing relapse to drugs.  Group 2 N= 112  Control: standard care with outpatient - 2 hours' counselling and case management per month and a single session on HIV risk reduction. This session included a motivational enhancement therapy style, 30-minute video on HIV education and a harm-reduction kit.  Group 1 N= 31  CBT: RP (relapse prevention) with outpatient - six sessions, each 60-90 minutes, conducted individually. First session motivational interview. Second to sixth sessions focused on specific techniques to reduce injecting and sexual risk behaviour.  Opioid agonist: MMT with outpatient  Group 2 N= 31  AMI (adapted motivational interviewing): MI with outpatient - single session lasting 60-90 minutes. Aimed to raise motivation to change needle use and unsafe sexual behaviour. Major aim to have participant express concerns about high risk behaviours and express desire to change. Opioid agonist: MMT with outpatient  Group 3 N= 33  Control: TAU (treatment as usual) with outpatient - Advice about HIV risk behaviours normally available from staff at methadone programmes and via an education leaflet.  Opioid agonist: MMT with outpatient.	Study quality: 1+
BAKER1994 Study Type: RCT (randomised controlled trial) Study Description: Follow-ups conducted by RA blind to study conditions Type of Analysis: Per protocol Blindness: Single blind Duration (days): Mean 1 Followup: 3 and 6 months Setting: Australia: general medical clinic for homeless people, pharmacy Notes: Stratified randomisation	n= 200 Age: Mean 29 Sex: 159 males 41 females Diagnosis:     100% IDU (injection drug use) by self-report  Exclusions: - had not injected drugs in past 6 months - lack of literacy in English - did not agree to HIV testing  Baseline: Drug use in past month: injection drug use = 92.5%; injected heroin = 80.5%; borrowed injection equipment = 19%; re-used injection equipment without bleach = 80.2%  Sexual risk behaviour: unprotected sex with regular partner = 72/82 (87.8%); casual partner = 31/67 (46.3%); customer	Data Used Reduced risk behaviours  Notes: DROPOUTS at 3 months: MI (motivational interviewing) = 42/100 (42%); control = 37/100 (37%) 6 months: MI = 58/100 (58%); control = 54/100 (54%)	Group 1 N= 100  Control: TAU (treatment as usual) with outpatient  Group 2 N= 100  AMI (adapted motivational interviewing): MI with outpatient - one session for 30 minutes. Interactive and objective feedback on health and other risks related to their behaviour. Various MI strategies used including: advantages and disadvantages of sharing injection equipment and sexual risk taking.	Study quality: 1+

	I and the second			A <sub>1</sub>
	= 3/13 (23.1%)			
BAKER2005				
Study Type: RCT (randomised controlled trial)	n= 214	Data Used	Group 1 N= 74	Study quality: 1+
Type of Analysis: Intention to treat	Age: Mean 30	Abstinence at 6 months	Control: TAU (treatment as usual) with	
Blindness: Single blind	Sex: 134 males 80 females	Notes: DROPOUTS: two-session CBT = 18/74, four-session CBT = 25/66	outpatient - received the same self-help booklet as in the intervention groups	
Duration (days): Mean 1	Diagnosis:	Dropouts from 6-month follow-up: two-session	Group 2 N= 66	
Followup: 6 months	100% other stimulant misuse	CBT = 20/74, four-session CBT = 15/66,	CBT (cognitive behavioural therapy) with	
Setting: Australia	Evaluaiona: quisidality		outpatient - four sessions: first session motivational interview, following sessions	
Notes: RANDOMISATION: independent clinical	Exclusions: - suicidality - acute psychosis		focused on coping and relapse prevention	
trials researcher	- current treatment for amphetamine use		skills. Second session involved relaxation and coping self-talk, third session	
nfo on Screening Process: 282 screened, 68	- acquired cognitive impairment - irregular amphetamine use ( <once a="" td="" week)<=""><td></td><td>controlling thoughts about amphetamines</td><td></td></once>		controlling thoughts about amphetamines	
excluded	Notes: PRIMARY DIAGNOSIS: Regular amphetamine use,		fourth session on lapses.	
	1/3 in treatment for other drugs, rest recruited through:		Group 3 N= 74	
	word of mouth, needle exchange service, GPs, other community agencies		CBT (cognitive behavioural therapy) with outpatient - two sessions: sessions lasting	
	Baseline: Duration of regular use = 8.98 (6.99)		45-60 minutes included role plays and	
	Mean daily level of amphetamine use (OTI) = 1.50 (1.65)		take-home exercises for practising skills. First session motivational interview,	
			second session learning coping and	
			relapse preventions skills.	
BERNSTEIN2005				
Study Type: RCT (randomised controlled trial)	n= 1175	Data Used	Group 1 N= 590	Study quality: 1++
	Age: Mean 38	Abstinence at 6 months	AMI (adapted motivational interviewing):	
Blindness: Single blind	Sex: 829 males 346 females	Hair analysis	MI with outpatient - one session for average 20 minutes (range 10-45 mins).	
Duration (days): Mean 1	Diagnosis:		Involved establishing rapport, exploring	
Followup: 3 and 6 months	100% drug misuse (non-alcohol) by self-report		pros and cons of drug use, and readiness to change. Finally provided a leaflet as in	
Setting: US inner-city walk-in clinic			control group. Ten days later booster	
Notes: RANDOMISATION: cards generated by	Exclusions: - did not use cocaine and/or heroin in last 30 days		phone call (5-10 mins).	
computerised randomisation programme and sealed in opaque envelopes	- <3 on the Drug Abuse Screening Test (DAST)		Group 2 N= 585	
Info on Screening Process: 23669 screened,	- <18 years of age - in drug misuse treatment		Control: TAU (treatment as usual) with outpatient - Received a leaflet saying	
1232 eligible, 1175 enrolled	- unable to speak English, Spanish, Haitian Creole or		"based on your screening responses you	
	Portuguese Creole		would benefit from help with your drug use" and given a list of treatment options:	
	Notes: PRIMARY DIAGNOSIS: Self-reported cocaine		detox, AA/NA, acupuncture, residential	
	and/or heroin use Ethnicity: Black = 61.5%,		treatment, harm reduction information etc	
	White = 13.8%, Hispanic = 24.1%, Other = 0.7%;			
	Control - Black = 62.5%, White = 14.6%, Hispanic = 22.3%, other = 0.5%			
	Baseline: GROUPS: MI / CONTROL			
	DAST scores: 8.0 (1.7) / 7.9 (2.6)			
	ASI: Drug: 0.26 (0.13) / 0.24 (0.14)			
CARROLL2006A				
Study Type: RCT (randomised controlled trial)	n= 423	Data Used	Group 1 N= 202	Study quality: 1+
Blindness: Open	Age: Mean 33	Retention: weeks remained in treatment	Control: TAU (treatment as usual) with	
Duration (days): Mean 1	Sex: 240 males 183 females	Drug use: days per month  Notes: DROPOUTS: 24% dropped out before 1-	outpatient - 2-hour assessment collected standard information according to agency	
	Diagnosis: Not given	month follow-up, 27% dropped out before 3-	guidelines, e.g. participants' history and	
Followup: 28 days and 84 days	Exclusions: - did not speak English	month follow-up	current level of substance use, and then referred to standard group treatment.	
Setting: US, 5 community-based settings	- did not seek outpatient treatment for substance use		group addition	
Notes: RANDOMISATION: Urn randomisation or orgramme	problems at least once in last 28 days			
·	- <18 years - not sufficiently medically or psychiatrically stable			
o on Screening Process: 640 screened, 217	- not sufficiently medically or psychiatrically stable			

				Appe
excluded: no substance use in last 28 days (n=95); seeking detox, MMT or inpatient treatment (n=34); lack of sufficient housing (n=15); moving or going to prison (n=12); psychiatrically unstable (n=12); not willing to be randomised (n=5)	- seeking detox only, MMT or residential inpatient treatment  Baseline: Primary substance: alcohol = 50.3% - exclude?, cocaine = 5.9%, marijuana = 20.2%, opioids = 4.8%, methamphetamine = 18.1%		Group 2 N= 198  AMI (adapted motivational interviewing): MI with outpatient - 2-hour assessment incorporating MI strategies (empathy, providing choice, removing barriers, providing feedback, clarifying goals).	
COLON1993				
Study Type: RCT (randomised controlled trial)	n= 1866	Data Used	Group 1 N= 880	Study quality: 1+
Type of Analysis: Per protocol	Age: Mean 33	Reduced risk behaviours Condom use	Psychoeducation with outpatient - Standard street outreach and referral	
Blindness: Open	Sex: 1488 males 378 females	Notes: DROPOUTS: Standard = 11.5%,	programme and 3-session educational	
Duration (days): Not given	Diagnosis:	standard + enhanced = 56.4%	component. Educational component delivered by trained ex-addict included:	
Followup: 7 months	100% IDU (injection drug use) by self-report		basic information about HIV, taught	
Setting: Four communities in Puerto Rico, US	Exclusions: - not injected in the previous 6 months		needle bleaching, obstacles to risk reduction, meaning of HIV test results.	
Notes: RANDOMISATION: Poor - based on day of admission	- not registered on a drug treatment programme in last 30 days		Group 2 N= 986  Outreach with outpatient - Outreach	
Info on Screening Process: 2144 enrolled; 1866 available to follow-up at 7 months	Baseline: GROUPS: Psychoeducation / standard education Injected for >=10 years: 56% / 54% Frequency of injection: 81.3% / 83.1% Use of shooting galleries: 79.5% / 78.1% Borrowing of needles: 40.5% / 41.8% Sharing cookers: 75.7% / 77.7% Bleaching needles not always: 91.3% / 93% Use of condoms not always: 87.8% / 87.8%		workers identified networks of IDUs and introduced programme. Provided instrumental and emotional support with risk reduction and help-seeking efforts.	
COPELAND2001				
Study Type: RCT (randomised controlled trial)	- n= 229	Data Used	Group 1 N= 82	Study quality: 1+
Blindness: Single blind Duration (days): Not given	Age: Mean 32 Sex: 159 males 70 females	Abstinence at 6 months Abstinence: days drug free Drug use: days per month	AMI (adapted motivational interviewing): MI with outpatient - 1 session for 90 mins. Combined principles of MI and CBT.	
Followup: 24 weeks	Diagnosis:	Notes: DROPOUTS at 6-month follow-up: 6 CB		
Setting: Australia	96% cannabis dependence by DSM-IV	= 20%, 1 MI (motivational interviewing) =25%	CBT with outpatient - six session for	
Info on Screening Process: 1075 screened, 565 excluded; of 510 eligible, 225 did not make appointments to attend and 47 didn't turn up for assessment; prior to randomization, 9 exceeded criteria for alcohol misuse	Exclusions: - no desire to cease cannabis use - > weekly use of drugs other than cannabis, nicotine, or alcohol in past 6 months (AUDIT scores >15) - received formal treatment for cannabis dependence in previous 3 months  Baseline: Mean years of weekly cannabis use = 13.9		hour each. First session based on MI principles, second session discussed urge management strategies, third on withdrawal management, fourth on cognitive strategies and skill enhancement, fifth on strategy review and sixth on relapse prevention.	
ELDRIDGE1997				
Study Type: RCT (randomised controlled trial)	- n= 104	Data Used	Group 1 N= 48	Study quality: 1+
Study Description: Cluster randomised by 3-	Age: Mean 34	Condom use	HIV education with inpatient - Two 90-mi-	
week admission blocks	Sex: all females	Notes: 99/117 (85%) completed, 57 (57%) completed 2-month follow-up	nute sessions of HIV education standard part of drug treatment programme.	
Blindness: Not given	Diagnosis: Not given	,	Group 2 N= 51	
Duration (days): Not given	Exclusions: - men		Psychoeducation with inpatient -	
Followup: 2 months	- HIV seropositive		Received standard intervention and four additional behavioural skills sessions.	
Setting: US, inpatient - criminal justice	Notes: Ethnicity: White = 54.8%, African American = 43.4%, Native American = 1.9%		This included modelling, rehearsal, feedback on correct use of condom,	
Info on Screening Process: 117 screened, 13 discharged early or irregularly	Baseline: Self-reported STI: past 12 months = 18.6%, lifetime = 52.9% Self-reported drug use: injected drug in past 2 months = 13.6%, crack cocaine = 61.2%		communication and assertiveness training, and correct needle cleaning.	
EPSTEIN2003				
				<u> </u>

Study Type: RCT (randomised controlled trial) n= 193 **Data Used** Study quality: 1+ Group 1 N= 49 Cocaine use: days CM: vouchers with outpatient - Earned Age: Mean 39 Blindness: No mention Notes: DROPOUTS: Control = 12/49, CM = 9/47 vouchers for each urine specimen that Sex: 110 males 83 females CBT = 10/48, CBT + CM = 15/49 was negative for cocaine. Vouchers Duration (days): Mean 84 began at \$2.50, increasing by \$1.50 for Diagnosis: Followup: 12 months each consecutive voucher earned. For 41% cocaine dependence by DSM-III-R three consecutive negative urines a \$10 Setting: US bonus was earned. Exclusions: - <18 years or >65 years Info on Screening Process: 286 screened CBT: RP (relapse prevention) with - not intravenous opioid user outpatient - Combined elements of - not cocaine user relapse prevention, coping methods, - current psychotic, bipolar or major depressive disorder behavioural reinforcement methods and - current physical dependence on alcohol or sedatives methods of generalising to the unstable medical illness environment. pregnancy and breastfeeding IDC (individual drug counselling) with outpatient. Baseline: Mean years of cocaine use = 11 (7.5)Opioid agonist: MMT (methadone Mean cocaine use = 18.3 (10.1) of last 30 days maintenance) with outpatient. Mean dose 70 mg - Within first week participants stabilised on 70 mg/day could request increase of up to 80 mg/day. Group 2 N= 47 CM: vouchers with outpatient - Earned vouchers for each urine specimen that was negative for cocaine. Vouchers began at \$2.50, increasing by \$1.50 for each consecutive voucher earned. For three consecutive negative urines a \$10 bonus was earned. IDC (individual drug counselling) with outpatient. Opioid agonist: MMT (methadone maintenance) with outpatient. Mean dose 70 mg - Within first week participants stabilised on 70 mg/day could request increase of up to 80 mg/day. Control: social s.upport group with outpatient Group 3 N= 48 CBT: RP (relapse prevention) with outpatient - Combined elements of relapse prevention, coping methods, behavioural reinforcement methods and methods of generalising to the environment. IDC (individual drug counselling) with outpatient. Opioid agonist: MMT (methadone maintenance) with outpatient. Mean dose 70 mg - Within first week participants stabilised on 70 mg/day could request increase of up to 80 mg/day. NCM (non-contingent management) with outpatient.

				Appe
			Group 4 N= 49  IDC (individual drug counselling) with outpatient.  Opioid agonist: MMT (methadone maintenance) with outpatient. Mean dose 70 mg - Within first week participants stabilised on 70 mg/day could request increase of up to 80 mg/day.  NCM (non-contingent management) with outpatient.  Control: social support group with outpatient.	
GIBSON1999				
Study Type: RCT (randomised controlled trial)  Blindness: Open Duration (days): Mean 1  Followup: 3 and 12 months Setting: US, entering detox treatment	n= 295 Age: Range 20-49 Sex: 204 males 91 females Diagnosis: 100% opioid dependence by previous participation in treatment  Exclusions: None reported Notes: PRIMARY DIAGNOSIS: Just completed opioid detoxification Baseline: (Study 1 / Study 2) History of MMT: 34% / 40% Traded sex in past month: 13% / 25%	Data Used Reduced risk behaviours	Group 1 N= 105  HIV education - 50-minute session of problem solving. Reviewed situations where participant engaged or tempted to engage in high-risk practices and explore strategies to reduce injection risk (e.g. disinfecting syringes and reducing sharing) and sexual risk (e.g. safer sex).  Group 2 N= 115  Control: TAU (treatment as usual) - Provided with a brochure on HIV.	Study quality: 1+
HARRIS1998				
Study Type: RCT (randomised controlled trial)  Type of Analysis: Per protocol Blindness: Open Duration (days): Mean 120  Followup: 3 months  Setting: 4 US methadone maintenance clinics Info on Screening Process: 204 screened, 130 included	n= 204 Age: Mean 36 Sex: all females Diagnosis: 100% opioid dependence by eligibility for/receipt of MMT  Baseline: Age first had sex: 15.0 (12.7) Two or more current sex partners: 11.5%	Data Used Reduced risk behaviours Notes: DROPOUTS: Treatment group = 9/107, control = 13/97	Group 1 N= 97  Control: standard care with outpatient - Standard services within MMT.  Group 2 N= 107  HIV education with outpatient - 16-week intervention (first 8 weeks 2 hours/day, last 8 weeks 1hour/day) developed especially for use with women drug misusers. Deigned to empower participants by increasing sense of inner control, improving self-esteem and improving relationships with others.	Study quality: 1+
KIDORF2005				
Study Type: RCT (randomised controlled trial)  Blindness: No mention  Duration (days): Mean 1  Followup: 1 year  Setting: US, mobile needle exchange programme  Info on Screening Process: 532 screened; 193 excluded: not opioid dependent (n=12), arranged other drug treatment (n=32), current mental disorder (n=3), too old or too young (n=2), failed to complete study assessments (n=144). 339 randomized, 37 did not return for study.	n= 302 Age: Mean 39 Sex: 205 males 97 females Diagnosis: 100% opioid dependence by DSM-IV  79% cocaine dependence by DSM-IV  69% alcohol dependence by DSM-IV  Exclusions: - arranged for drug misuse treatment before study - current organic mental disorder - too old or too young	Data Used Engagement in treatment Notes: No data provided - write to authors	Group 1 N= 96  Control: enhanced TAU (treatment as usual) with outpatient - one session for 50 minutes to address job-seeking readiness Participants reviewed their work history and discussed jobs they were interested in pursuing. Interventionist and participant worked together to develop a list of jobs.  Group 2 N= 98  AMI (adapted motivational interviewing): MI with outpatient - 1 session for 50 mins. Explored the positive and negative aspects of drug use, shared feedback from study assessments and elicited participant response, discussed discrepancy between current level of	

				Appe
	Baseline: (MI/job readiness/standard care) Previous methadone treatment: 32% / 32% / 27% Any opioid treatment: 72% / 74% / 70% Lifetime comorbid Axis I disorder: 32% / 31% / 38%		Group 3 N= 108  Control: TAU (treatment as usual) with outpatient - Participants asked to contact the needle exchange programme if they were interested in pursuing substance misuse treatment. Designed as a usual treatment for participants in needle exchange programmes.	
KOTRANSKI1998				
Study Type: RCT (randomised controlled trial)  Type of Analysis: Per protocol  Blindness: No mention  Duration (days): Mean 21  Followup: 6 months  Setting: US  Notes: RANDOMISATION: poor - time or arrival (every other person went into enhanced condition)  Info on Screening Process: 684 enrolled > 417 completed study	n= 417 Age: Mean 39 Sex: 265 males 152 females Diagnosis: IDU (injection drug use)  drug misuse (non-alcohol)  Exclusions: - <18 years of age - not used injected drugs and/or crack (self-report, urinalysis, fresh injection marks) - participated in drug treatment Notes: Ethnicity: African American = 85% Baseline: GROUPS: Standard / Psychoeducation Years of cocaine, heroin or speedball use:16.3 / 17.3 Years of crack use: 6.5 / 5.5	Data Used Reduced risk behaviours Condom use Notes: DROPOUTS at follow-up: enhanced intervention = 233/327 (71%), standard = 184/268 (69%)	Group 1 N= 184  HIV education with outpatient - two sessions inc.HIV pre-test counselling, voluntary HIV test, information on HIV, drug and sexual risk reduction, discussion and rehearsal of condom use.  Group 2 N= 233  Psychoeducation with outpatient - Received standard intervention and one additional session on the same day as last standard session. Provided info on STI symptoms, prevention and barriers to risk reduction; made STI risk more personal using self-assessment of behaviours and risks.	
MALOTTE1998 Study Type: RCT (randomised controlled trial) Blindness: Open Duration (days):	n= 1009 Age: Range 18-69 Sex: 684 males 325 females	Data Used Completion rate	Group 1 N= 203  AMI (adapted motivational interviewing): MI with outpatient - 5-10-minute motivational educational session based	Study quality: 1++
Setting: Long Beach, CA, US  Notes: Randomisation stratified by recruitment source  Info on Screening Process: 1004 enrolled	Diagnosis: drug misuse (non-alcohol) by urinalysis  Exclusions: Clear history of positive TB skin test		on theory of reasoned action.  CM (contingency management) with outpatient - \$10 cash reward contingent on participant returning for skin-test reading.	
	Baseline: HIV+: 4% No prior TB exposure: 90% Unemployed: 78% Ever been in drug treatment: 56% Drug use in past 30 days: injection only: 24%, crack only: 41%, crack and injection: 23%		Group 2 N= 198  AMI (adapted motivational interviewing): MI - As per group 1  CM (contingency management) - \$5 cash reward contingent on participant returning for skin test reading.  Group 3 N= 99  AMI (adapted motivational interviewing): MI - Motivational session only, no incentives.  Group 4 N= 100  Control: TAU (treatment as usual) - The importance of returning for skin-test reading was stressed, but no motivational session.  Group 5 N= 204  CM (contingency management) - As per control group, but with \$5 cash reward for returning.	

				Appe
			Group 6 N= 200 CM (contingency management) - As per	
			control group, with \$10 cash incentive for return	
MALOTTE1999				
Study Type: RCT (randomised controlled trial)  Blindness: Open Duration (days): Mean 1  Setting: US  Notes: RANDOMISATION: Method not reported Info on Screening Process: 1078 recruited	n= 1078 Age: Sex: 837 males 241 females Diagnosis: 100% drug misuse (non-alcohol) by self-report  Exclusions: Not users of injection drugs, crack cocaine or both  Notes: ETHNICITY: 2% Native American, 64% African American, 8% Latino, 21% Caucasian, 5% other  Baseline: Prior TB exposure: 10% Ever injected: 42%	Data Used Engagement in treatment	Group 1 N= 217  CM (contingency management) with outpatient - \$10 cash for returning for TB skin-test reading.  Group 2 N= 217  CM (contingency management) with outpatient - \$10 of grocery store coupons for returning for TB skin-test readings.  Group 3 N= 218  CM (contingency management) with outpatient - Chose either bus passes or fast-food-chain vouchers worth \$10 for returning for TB skin-test reading.	Study quality: 1+
	Ever used crack: 97% Ever been in drug treatment: 50% Current drug use (past 90 days): injection: 10.9, crack: 77.0, crack and injection: 12.1		Group 4 N= 211  AMI (adapted motivational interviewing): MI with outpatient - 5-10-minute session based on theory of planned behaviour focused on behavioural beliefs and subjective norms that were most related to their behavioural intention to return for TB testing.  Group 5 N= 215  Control: TAU (treatment as usual) with outpatient - Just warned of importance of having TB skin tests read.	
MALOTTE2001				
Study Type: RCT (randomised controlled trial)  Study Description: Allocation concealed by opaque sealed envelopes	n= 163 Age: Mean 42 Range 23-69	Data Used Completion rate	Group 1 N= 55  Outreach with outpatient - Twice weekly directly observed therapy (DOT) for TB	All participants prescribed isoniazid, 15 mg/kg (max 900 mg) twice weekly for 6
Type of Analysis: Per protocol	Sex: 134 males 29 females		drug, supplied by outreach worker at location chosen by participant.	or 12 months (depending on HIV status)
Blindness: Open	Diagnosis: 27% IDU (injection drug use) by self-report		CM (contingency management) - \$5 cash	Study quality: 1++
Duration (days): Range 180-365 Setting: Storefront facility in California, US	82% other stimulant misuse by self-report		incentive at each visit.  Group 2 N= 55  Outreach - As per Group 1, but with no	
Notes: Randomisation in blocks of 18	Exclusions: Evidence of potential active disease or medical		incentives.	
Info on Screening Process: 325 had a positive tuberculin test, 224 completed further assessment, 202 offered isoniazid; 169 gave consent to take part in study, 6 excluded (2 previous history of INH therapy, 3 prolonged elevated liver function test readings, 1 positive septum test)	contraindications to isoniazid  Notes: PRIMARY DIAGNOSIS: Injection or crack cocaine use ETHNICITY: 71% African American, 9% Hispanic, 14% White, 7% other  Baseline: Unemployed: 88% Unstable living status: 29% Prior TB exposure: 12% Some binge drinking in past month: 58% Previous drug/alcohol treatment: 55%		Group 3 N= 53  CM (contingency management) - DOT provided at community site with no active outreach. \$5 cash incentive for each visit.	
MALOWA OOA				
MALOW1994 Study Type: RCT (randomised controlled trial)	n= 152 Age: Mean 35	Data Used Reduced risk behaviours	Group 1 N= 76  Psychoeducation with inpatient - Three 2-	Study quality: 1+
Blindness: Not given Duration (days): Mean 3 Followup: 3 months	Sex: all males	Condom use	hour sessions on consecutive days designed to a) foster acceptance of HIV risk reduction b) stress risk reduction can	

				Appe
Setting: US Veterans Affairs Treatment Program	Diagnosis: 100% cocaine dependence by DSM-III-R	Notes: DROPOUTS: Psychoeducation = 30.3%, information group = 29%	be achieved c) develop communication and behavioural skills for safe sex and syringe use d) address barriers to	
Info on Screening Process: 235 screened, 83 excluded	Exclusions: - not African American male - <20 years or >50 years of age - IQ <80 - visual or hearing deficit - HIV seropositivity - plans to move 60 miles from New Orleans		changing behaviour.  Group 2 N= 76  Control: enhanced TAU (treatment as usual) with inpatient - Similar content and time frame as psychoeducation condition contained pre-recorded audiovisual and printed material but minimal patient-therapist interaction.	
	Baseline: No statistics reported		minimal patient-therapist interaction.	
MARGOLIN2003				
Study Type: RCT (randomised controlled trial)	n= 90		Group 1 N= 45	Study quality: 1+
Type of Analysis: ITT: missing data imputed:expectation maximisation	Age: Mean 41 Sex: 63 males 27 females		Opioid agonist: MMT (methadone maintenance) with outpatient. Mean dose 80 mg/day - Included counselling and	
Blindness: No mention  Duration (days): Mean 180	Diagnosis: 100% opioid dependence by eligibility for/receipt		case management.  HIV education with outpatient - six	
Followup: 9 months	of MMT		session HIV risk reduction intervention:	
Setting: US, MMT programme	100% cocaine misuse		motivational interview, video demonstration of cleaning needles,	
Notes: Randomisation procedures not reported	100% IDU (injection drug use) by self-report		practice cleaning a needle, harm reduction negotiation role play, harm reduction kit.	
	Exclusions: - unconfirmed HIV-seropositive status - not IDU		Group 2 N= 45  Opioid agonist: MMT (methadone maintenance) with outpatient. Mean dose	
	Notes: ETHNICITY: 49% African American, 36% White, 16% Hispanic		80mg/day - Included counselling and case management.	
	Baseline: 94% unemployed		Control: TAU (treatment as usual) with outpatient - Group counselling included: relapse prevention, improving emotional, social and spiritual health.	
MARSDEN2006				
Study Type: RCT (randomised controlled trial)	n= 342	Data Used	Group 1 N= 166	Study quality: 1++
Plindrage Open	Age: Mean 18	Drug use	AMI (adapted motivational interviewing):	
Blindness: Open Duration (days): Mean 1	Sex: 227 males 115 females	Abstinence: no use for 3 months  Notes: Lost to follow-up: MI (motivational	MI with outpatient - 45-60-minute disucssion: 1) framing and initiating	
Followup: 6 months	Diagnosis:	interviewing) = 21/166, control = 22/176	conversation 2) general lifestyle 3) stimulant and alcohol use 4) perception	
Setting: UK community agencies in Newham, Thamesmead and Sutton	cocaine misuse by self-report  other stimulant misuse by self-report		of good and bad aspects of stimulant use 5) problems with stimulant use 6) plans	
Notes: RANDOMISATION: By trial statistician			for behaviour change 8) local health  Group 2 N= 176	
Info on Screening Process: 369 screened, 342 randomised	Exclusions: - <16 years or >22 years - primary substance not ecstasy, cocaine powder, or crack cocaine		Control: TAU (treatment as usual) with outpatient - Given same written health-	
	- use of either of above susbtances <4 times in last month - not able to provide two personal contacts - lifetime treatment for non-medical opioid drug use - current dependence - >1 injection of illicit drugs in last year		risk information as intervention group.	
	Notes: PRIMARY DIAGNOSIS: Self-reported cocaine, crack cocaine and/or ecstasy use			
	Baseline: GROUP: MI / CONTROL Cocaine use (90 days): 101/111 Crack use (90 days): 53/61 Cannabis use (90 days):150/157			

P				Арре
Study Type: RCT (randomised controlled trial) Study Description: Colleague not involved in study performed non-computerised randomisation of clusters, stratified by college; interviewer blind to study conditions Type of Analysis: Cluster randomised Blindness: Single blind Duration (days): Mean 1 Followup: 3 months, 12 months Setting: 10 further education colleges in London Notes: Participants recruited by any given individual recruiter were all assigned to the same group	n= 200 Age: Range 16-20 Sex: 118 males 82 females  Diagnosis:     cannabis misuse by self-report      cocaine misuse by self-report  Exclusions: - < weekly use of cannabis or stimulants within previous 3 months - opioid and injecting drug use  Notes: Ethnicity: intervention group - White = 32%, Black = 61%, Asian/other = 8%; control - White = 46%, Black = 37%, Asian/other = 20%  Baseline: GROUPS: MI / TAU Cannabis use weekly: 35% / 28% Cannabis use daily: 49% / 48% Simulant use irregularly: 19% / 18% Stimulant use monthly: 8% / 23%	Data Used Cannabis use: days in past 3 months Notes: DROPOUTS: 7.5% MI (motivational interviewing), 13.7% control	Group 1 N= 95  Control: TAU (treatment as usual) with outpatient - Education as usual. Completed baseline and follow-up assessments only.  Group 2 N= 105  AMI (adapted motivational interviewing): MI with outpatient - 1 session lasting up to 60 mins. Intervention adapted from work by Miller on MI including reflective listening, affirmation, open questions and eliciting change talk'.	Study quality: 1+
MILLER2003  Study Type: RCT (randomised controlled trial)  Blindness: No mention Duration (days): Mean 1  Followup: 12 months Setting: US: 56 inpatients, 152 outpatients Info on Screening Process: 294 screened, 129 declined to participate	n= 208 Age: Mean 33 Sex: 118 males 90 females Diagnosis: Not given  Baseline: Most common drug problem: cocaine (53%), heroin (29%)	Data Used Drug use: days per month Notes: No outcomes extractable	Group 1 N= 104  AMI (adapted motivational interviewing): MI with inpatient and outpatient - A single session lasting up to 2 hours; standard brief motivational intervention format offering feedback in an empathic way.  Control: standard care with inpatient and outpatient - Standard care in the treatment services: outpatient - 23%  MMT, 76% RP, 88% coping skills training inpatient - 60% medical detoxification, most received RP, AIDS counselling, 12-step facilitation.  Group 2 N= 104  Control: standard care with inpatient and outpatient - Standard care in the treatment services: outpatient - 23%  MMT, 76% RP, 88% coping skills training inpatient - 60% medical detoxification, most received RP, AIDS counselling, 12-step facilitation.	Study quality: +1
MITCHESON2007  Study Type: RCT (randomised controlled trial)  Blindness: Open Duration (days): Not given  Notes: Cluster-randomised: clinic staff were randomised to MI (motivational interview)/delayed training; clients of those trained were assigned to MI group	n= 29 Age: Mean 39 Sex: 19 males 10 females Diagnosis: 100% opioid dependence by eligibility for/receipt of MMT 100% cocaine misuse by urinalysis  Exclusions: No cocaine use in past 30 days (by urinalysis) Notes: PRIMARY DIAGNOSIS: Crack cocaine Baseline: (Control / MI) Time in treatment (years): 2.9 / 4.9 Unemployed: 83% / 94%	Data Used Cocaine use: times in past month Cocaine use: max consecutive days Cocaine use: grams, self-report Cocaine use: days Notes: Outcomes are for crack-cocaine use DROPOUTS: None reported	Group 1 N= 12  Control: TAU (treatment as usual) with outpatient - Exposing clients to the crack awareness initiative (leaflets about consequences of crack-cocaine use, poster display in clinic reception).  Group 2 N= 17  AMI (adapted motivational interviewing): MI with outpatient. Mean dose 1 session - Engaging in discussion with client about his/her crack cocaine use: eliciting concerns, exploring and amplifying ambivalence about use. If appropriate: at end of session, prompting client to consider whether to change behaviour and options for doing so.	Study quality: 1+

	I		T	Ap
ONEILL1996				
Study Type: RCT (randomised controlled trial) Type of Analysis: Completers Blindness: Single blind Duration (days): Mean 42 Setting: 'Centres' in Australia. No further details Notes: RANDOMISATION: Adaptive sampling for settling temporary imbalances in group sizes due to practical constraints Info on Screening Process: 92 enrolled	n= 92 Age: Mean 26 Sex: all females Diagnosis:     100% IDU (injection drug use) by eligibility for/receipt of MMT  Exclusions: Not pregnant women Notes: PRIMARY DIAGNOSIS: Only included IDU in past 6 months Baseline: Age first injected: 17.3 Self-reported drug use in past month: heroin: 85%, other illicit opioids: 16%, alcohol: 32%, cannabis: 59%, cocaine: 15%, amphetamine: 10% HIV+: 0% Sex work: 53% (lifetime), 21% (past 6 months) IDU partner: 76% Pregnancy weeks: 22	Pata Used Reduced risk behaviours  Notes: DROPOUTS: Treatment group = 7/47, control = 5/45; at follow-up: treatment group = 10/47, control = 9/45	Group 1 N= 40  CBT: RP (relapse prevention) with outpatient - six sessions lasting for 60-90 minutes. First session motivational interview. 2-6 identifying high-risk situations, problem-solving strategies, coping with craving, relaxation techniques and coping with lapses.  Group 2 N= 40  Control: TAU (treatment as usual) with outpatient.	Study quality: 1+
ROSEN2007 Study Type: RCT (randomised controlled trial) Type of Analysis: Completers Blindness: No mention Duration (days): Mean 224 Setting: Outpatients Info on Screening Process: 141 assessed, 131 met study inclusion criteria. 99 completed 4 week baseline assessment. 33 had baseline adherence over 80% dose-time threshold, 10 discontinued for other reasons, 56 randomised	n= 56 Age: Mean 44 Sex: 33 males 23 females Diagnosis:  Exclusions: - not currently taking antiretroviral medication - not willing or able to use MEMS-compatible bottles - never used an illicit drug weekly for a year - Mini Mental State Score of less than 23 Notes: ETHNICITY: African American 58% Hispanic 28% Caucasian: 14% Baseline:  CM Supportive counselling Baseline compliance 58% 58% Cocaine use 67% 63% Cannabis use 33% 37% Opioid use 44% 37%	Data Used Self-report % doses taken Viral load Side effects Compliance with medication Urinalysis: positive for any illicit drug	Group 1 N= 28  CM: prizes - CM prizes earned each time medication capsule opened within 3 hours of schedule. 26.7% chance to earn \$1 card, 7.6% chance for \$20 card, 0.2% chance for \$100 card. Cards exchanged for prizes such as bus tokens, clothing, small appliances.  One draw per day when all medication taken. Chance to earn 5 more draws when all of weeks doses taken. Ten draws for 2 weeks medication completion, 15 draws for 3 weeks, 20 draws for 4+ weeks. Draws reset to 5 for non compliance. Potential earnings \$800.  Weekly counseling attendance encouraged to discuss issues re: missed doses and adherence and offered support. Onsite urine toxicology testing for cannabis, opioid and cocaine metabolites at each session.  Group 2 N= 28  Supportive counselling - Counsellor did not review MEMS data nor conduct urine toxicology. Initial review of self-reported substance abuse & referral to available treatment. Monthly letters sent stating self-reported adherence.  Weekly counselling attendance encouraged to discuss issues re: missed doses, adherence and offered support	Study Quality 1+
SCHILLING1991 Study Type: RCT (randomised controlled trial) Blindness: Not given Duration (days): Not given Setting: US methadone maintenance clinics Info on Screening Process: 115 eligible 24 did	n= 91 Age: Range 21-42 Sex: all females Diagnosis: not given Exclusions: - not Black or Hispanic	Data Used Reduced risk behaviours	Group 1 N= 48  Psychoeducation with outpatient - Five 2-hour sessions by female drug counsellors First two sessions on providing info on AIDS transmission and prevention to enable participants to identify high-risk behaviours. Sessions 3-5 on condom use,	

				Appe
not wish to participate	- < 3 months of MMT  Notes: Ethnicity: Hispanic = 64.3%, Black = 35.7%  Baseline: GROUPS: Intervention / Control Heroin use: 15.2% / 15.8%  Cocaine use: 43.5% / 42.1% Injection use: 71.3% / 76.3% Unemployed: 91.3% / 89.5%	Notes: DROPOUTS: intervention = 2/48 (4.2%), control = 5/43 (12%)	communication and assertiveness training, problem solving.  Group 2 N= 43  HIV education with outpatient - AIDS information routinely provided in the clinic.	
SEAL2003				
Study Type: RCT (randomised controlled trial)  Blindness: Open	n= 96 Age: Mean 43	Data Used Completion rate	Group 1 N= 48  CM (contingency management) with	Study quality: 1+
Duration (days): Mean 180	Sex: 69 males 27 females		outpatient - Once per month for 6 months \$20 incentive for returning to community	
Setting: Two inner-city neighbourhoods, San Francisco, US	Diagnosis: 100% IDU (injection drug use)		site. Second and third doses of hepatitis B virus vaccine given at months 1 and 6.  Group 2 N= 48	
Notes: Block randomisation	Exclusions: Not negative for all three hepatis B virus seromarkers. No isolated hepatitis B core antigen antibody		Outreach with outpatient - Outreach worker attempted weekly contact to	
Info on Screening Process: 366 screened, 149 eligible, 96 returned for enrolment	Notes: Injected in past 30 days: heroin: 74%, speedball: 51%, speed: 16% ETHNICITY: 46% African American, 31% White, 15% Latino, 8% other		provide safe injection information and appointment reminders; duration of each contact not reported. Second and third doses of hepatitis B virus vaccine given at months 1 and 6.	
	Baseline: Homeless: 47% Years IDU: 21 Heavy alcohol use (>=5 drinks/day): 15% Had drug treatment in past year: 49%			
SIEGAL1995				
Study Type: RCT (randomised controlled trial)	n= 381	Data Used	Group 1 N= 232	Study quality: 1+
,	Age: Mean 37	Reduced risk behaviours	Control: enhanced TAU (treatment as	
Blindness: Not given	Sex: 282 males 99 females	Notes: DROPOUTS during treatment: enhanced education = 51%;	usual) with outpatient - 1-hour standard intervention: 1) in-depth details on HIV	
Duration (days): Mean 30	Diagnosis: Not given	at follow-up: standard = 113/345 (33%),	and how it is transmitted 2) behavioural	
Followup: 6 months		enhanced = 22/171 (13%)	strategies to reduce HIV risk, e.g. proper	
Setting: Needle exchange programmes in US	Exclusions: - had not injected drugs in previous 6 months - <18 years of age		condom use, needle cleaning with bleach. Received HIV tests results and risk-	
Notes: RANDOMISATION: Poorly addressed by alternation	- attended a drug treatment programme in last 30 days		reduction kit and pamphlets.	
Info on Screening Process: 907 screened, 214	Notes: Ethnicity: African-American (n= 184), White (n=42), other (n=6)		Group 2 N= 149  Psychoeducation with outpatient - three	
excluded	Baseline: 61% heroin injection, 77% cocaine injection, 43% speedball (heroin and cocaine mixture), 68% crack users HIV+: 1.5%		additional education sessions for 1-2 hours: 1) pathology of HIV and AIDS 2) drug addiction 3) safer sex and relationships - men's version and women's version.	
SORENSEN1994				
Study Type: RCT (randomised controlled trial)	n= 148	Data Used	Group 1 N= 25	Study quality: 1++
Blindness: Not given	Age: Mean 39	Unsterile needle use	Psychoeducation with outpatient - MMT	
Duration (days): Mean 7	Sex: 89 males 59 females	Condom use Notes: DROPOUTS: MMT: education = 5/25;	group: 3 sessions for 2 hours within a week. Involved didactic presentations on	
Followup: 3 months	Diagnosis: Not given	detox: education = 17/32	AIDS transmission, group discussions designed to personalise the threat of AIDS, and social interaction among	
Setting: US	Exclusions: - <20 years of age - HIV antibody positive		members and leaders.	
Notes: CONCEALMENT OF ALLOCATION: Sealed envelopes	Notes: Ethnicity: MMT - White = 54%, Black = 18%, Hispanic = 20%, Other = 8%; detox - White = 44%, Black = 20%, Hispanic = 26%, other = 10%		Group 2 N= 28  HIV education with outpatient - Control for detox group: information only	
	Baseline: SAMPLES: MMT / DETOX 0 years of amphetamine use: 62% / 56% 3+ years of amphetamine use: 22% / 26% 0 years of cocaine use: 44% / 38%		Group 3 N= 22  HIV education with outpatient - Control for MMT group: information only	

				Арр
	3+ years of cocaine use: 36% / 45%		Group 4 N= 32  Psychoeducation with outpatient - Detox group: 2 sessions - first session for 2 hours and second session for 1 hour. Involved didactic presentations on AIDS transmission, group discussions to personalise the threat of AIDS, and social interaction among members and leaders.	
SORENSEN2006				
Study Type: RCT (randomised controlled trial)	n= 66	Data Used	Group 1 N= 34	Study quality: 1++
Study Description: Randomised by statistician and placed in sealed envelopes	Age: Mean 43 Sex: 35 males 31 females	Compliance with medication  Notes: Monitoring of adherence twice daily (i.e.	CM: vouchers - Voucher earned each time medication cap opened within 2	
Type of Analysis: ITT - maximum likelihood estimation	Diagnosis: 100% HIV positive by current participation in	via electronic bottle cap at each of two daily antiretroviral doses) DROPOUTS: 12.5% vouchers, 6% control	hours of schedule. \$1 per day in first 5 days, \$1.40 bonus with each successive day complied. Day 6 onwards: increase of	
Blindness: Open	treatment		\$0.20 per day for each day complied. On	
Duration (days): Mean 84			any day, reset to \$1 if not complying.	
Followup: 4 weeks	100% opioid dependence by eligibility for/receipt of MMT		Control: standard care with outpatient - Medication coaching: meeting with	
Setting: Two MMT clinics in San Francisco, US	Exclusions: - not receiving MMT		nurse/RA once every 2 weeks, who gave copy of electronic bottle cap adherence data; assessment and personalisation of	
Notes: Computerised stratified randomisation	- not HIV+		current antiretroviral schedule, providing	
Info on Screening Process: 181 screened 78 ineligible (primarily as a result of not being prescribed antiretroviral for >1 month). 86 gave consent; 66 still interested and eligible, and randomised.	- not been prescribed HIV antiretroviral medication for at least one month - participating in other adherence improvement - >=80% medication adherence during 4-week baseline phase  Notes: ETHNICITY: 36% Caucasian, 32% African-American, 12% Latino, 20% other/mixed 4 'female' participants were male to female transsexual		support to improve adherence. Antiretroviral taken twice daily.  Group 2 N= 32  Control: standard care with outpatient - Medication coaching and twice daily antiretroviral, as per CM group.	
	Baseline: (CM / control) Employed full/part time: 9% / 0% Homeless/no stable residence: 35% / 41% Opioid positive urine: 35% / 41% Cocaine positive urine: 53% / 50% Methadone dose (mg): 85.4 / 73.3			
STEPHENS2000				
Study Type: RCT (randomised controlled trial)	n= 291	Data Used	Group 1 N= 117	Study quality: 1+
Diadassa Nassantian	Age: Mean 34	Cannabis use: days in past 3 months	CBT: group RP (relapse prevention) with	
Blindness: No mention  Duration (days): Not given	Sex: 224 males 67 females	Notes: DROPOUTS: CBT = 19%, MI (motivational interviewing) = 8%, waitlist = 8%	outpatient - 14 x 2-hour CBT: RP group sessions over an 18-week period.	
-	Diagnosis: Not given		Sessions 1-10 weekly, 11-14 every other	
Followup: 1, 4, 7 and 13 months Setting: US	Exclusions: - cannabis used <50 times in last 90 days		week. Weeks 1-4 involved building motivation for change and high-risk	
-	- alcohol or other drug misuse in last 90 days - severe psychological distress		situations identified, 5-10 building coping skills, 11-14 coping with rationalisations.	
Info on Screening Process: 601 screened, 183 excluded (cannabis used <50 times in 90 days	- receiving other formal treatment		Group 2 N= 88	
(n=24), alcohol or other drug misuse in last 90	D 15 V 47 07 (7 07)		AMI (adapted motivational interviewing):	
days (n=149), severe psychological distress (n=8), other formal treatment (n=2)). Of eligible sample, 127 did not complete pre-treatment session.	Baseline: Years of use = 17.35 (5.21), days of use past 90 days = 74.64 (18.54)		MI with outpatient - Two 90-min individual sessions. Involved MI (e.g. reflective listening, affirmation and reframing) and CBT techniques (identifying high-risk situations). Second session (1 month after) reviewed previous session and feedback received.	
			Group 3 N= 86	
			Control: waitlist with outpatient - Waitlist of 4 months until treatment.	

			T	A
STEPHENS2002				
Study Type: RCT (randomised controlled trial)	n= 450	Data Used Cannabis use: days in past 3 months	Group 1 N= 148	Study quality: 1+
Blindness: Not given	Age: Mean 36	Abstinence: no use for 3 months	Control: waitlist with outpatient	
Duration (days): Not given	Sex: 306 males 144 females	Notes: DROPOUTS: MI (motivational	Group 2 N= 146	
. , , ,	Diagnosis:	interviewing) = 18/146 (12.3%), CBT = 23/156	AMI (adapted motivational interviewing): MI with outpatient - Two 1-hour sessions	
Followup: 4 and 9 months	100% cannabis dependence by DSM-IV	(15%), waitlist =11/148 (7.5%)	1 and 5 weeks after randomisation.	
Setting: Three US urban areas	Evelusiones 40 veers		Discussed a personal feedback report to	
Notes: RANDOMISATION: Conducted centrally at the the Center for Substance Abuse	Exclusions: - <18 years - dependence on other drugs or alcohol		motivate participant to make changes attitudes favouring and opposing change,	
Treatment using URN randomisation programme	- inability to provide a person who could assist in contact at		treatment goals etc; in second session	
Info on Screening Process: 1211 screened,	follow-up - legal status that would disrupt treatment		efforts to reduce cannabis use reviewed.	
398 excluded (dependence on other drugs	- currently receiving therapy		Group 3 N= 156	
(31%), unwilling to accept random assignment (21%), currently receiving therapy (20%), did	Notes: Ethnicity: White = 69.3%, Hispanic = 17.3%, African		CBT: coping skills training with outpatient - 9 sessions over a 12-week	
not provide contact person (20%), legal status	American = 12.2%, Other = 1.1%		period. First 8 sessions weekly, 9th	
(16%)); 363 eligible but did not complete	Baseline: Proportion of days drug used in last 90 days =		session 4 weeks after 8th session to	
assessment	0.88, hours high per day = 6.62, ounces of cannabis per		review changes. Combined motivational aspects with CBT and case management.	
	week = 0.40, number of joints per day = 2.89		aspects with ODT and case management.	
STERK2003				
Study Type: RCT (randomised controlled trial)	n= 68	Data Used	Group 1 N= 27	Study quality: 1+
Type of Analysis: Per protocol - only those	Age: Mean 41 Range 20-54	Reduced risk behaviours	HIV education with outpatient - Standard	
available to follow-up	Sex: all females		2-session: first session emphasised HIV epidemic and the importance of reducing	
Blindness: Open	Diagnosis:		injection and sexual risk. Second session	
Ouration (days): Mean 30	100% IDU (injection drug use) by self-report		focused on further development of HIV	
			knowledge and risk and protective behaviour.	
Setting: US inner-city neighbourhood outreach	Exclusions: - <18 years		Group 2 N= 20	
	- in drug treatment - not proficient in English		HIV education with outpatient - 4-session	
	- HIV positive		motivational: in first session HIV	
	- not had sex with a man in last month		education & tailored to race and gender	
	- intoxicated or high at time of interview		issues, in second session short- and long term goals discussed, in third short-term	
	Baseline: GROUPS: Standard interventions / motivation		behaviour change reviewed along with	
	intervention / negotiation intervention		ambivalence & in fourth risk reduction discussed.	
	Mean days' crack use: 14.0 (13.3) / 10.0 (12.1) / 10.2 (12.5)		Group 3 N= 21	
	Mean days' cocaine powder: 8.3 (11.9) / 10.4 (12.3) / 5.4		HIV education with outpatient - 4-session	
	(8.1)		negotiation: in 1st session HIV education	
	Mean days' heroin use: 16.6 (12.9) / 14.1 (13.1) / 12.2 (10.7)		& skills training, in 2nd possible	
	Mean days' speedball: 12.2 (14.3) / 6.4 (9.7) / 6.7 (10.5)		behaviour changes reviewed & general communication & assertiveness	
			discussed, in 3rd short-term goals	
			discussed & in 4th developed negotation and conflict resolution.	
			and common recordion.	
STOTTS2001	-			
Study Type: RCT (randomised controlled trial)	n= 105	Data Used Completion rate	Group 1 N= 53	Study quality: 1+
Type of Analysis: ITT	Age: Mean 35	Cocaine use: no use versus some use	AMI (adapted motivational interviewing): MI with outpatient - Two 1-hour	
Blindness: Open	Sex: 84 males 21 females	Notes: Completion of treatment: MI = 50%,	interventions on days 1 and 4 of cocaine	
Ouration (days): Mean 10	Diagnosis:	no M= 49%	detoxification. Session 1 focussed on	
Onthin and Haring and the control of	100% cocaine dependence by DSM-IV		building motivation for change and exploring ambivalence about change;	
Setting: University-medical-centre-based research unit, Texas, US	Evelusioner and outside rooms 40 50		session 2 consisted of personal feedback	
Notes: RANDOMISATION: Stratified by MI	Exclusions: - age outside range 18-50 years - not in good physical and psychiatric health		reassessing commitment to change.	
(motivational interviewing) condition	- not free of legal problems		Group 2 N= 52	
. 3,	Notes: - Recruited through radio, television, newspaper		Control: standard care with outpatient.	
	advertising			I

				Apj
	Received 12 weeks of relapse prevention after cocaine detoxification			
	Baseline: Mean duration of cocaine use: 10 years Mean frequency of cocaine use in last 30 days: 12.8			
TUCKER2004A				
Study Type: RCT (randomised controlled trial)	n= 145	Data Used	Group 1 N= 73	Study quality: 1++
Type of Analysis: Intention to treat	Age: Mean 31	Reduced risk behaviours	Psychoeducation with outpatient - 30-min	
Blindness: Single blind	Sex: 107 males 38 females		individually tailored intervention aimed to increase awareness of risk practices in	
Duration (days): Mean 1	Diagnosis:		relation to hepatitis C, to enhance motivation and to change high-risk	
Followup: 1 month	100% IDU (injection drug use) by self-report		practices. Non-confrontational and	
Setting: Australia	75% opioid misuse by self-report		supportive style used.	
Notes: RANDOMISATION: By an independent			Group 2 N= 72  Control: TAU (treatment as usual) with	
researcher; randomisation outcome was concealed in a sealed envelope	Exclusions: - <18 years - injecting < once per week for last 6 months		outpatient - Providing the participant with	
Info on Screening Process: 239 screened, 23	- not willing to be contacted for follow-up interview		written literature on hepatitis C and briefly highlighting various sections of the bookle	
excluded, 70 did not attend interview, 24 excluded after interview	Notes: PRIMARY DIAGNOSIS: heroin was primary drug for 75%			
	Baseline: 64% positive for hepatitis C virus			
WECHSBERG2004				
Study Type: RCT (randomised controlled trial)	n= 620	Data Used	Group 1 N= 207	Study quality: 1++
Blindness: No mention	Age: Mean 37	Condom use Notes: DROPOUTS: Woman-focused group =	Control: waitlist with outpatient	
Duration (days): Mean 42	Sex: all females	33%, standard group = 35%	Group 2 N= 213	
Followup: 3 and 6 months	Diagnosis: 100% other stimulant misuse by self-report		Psychoeducation with outpatient - Women focused: two individual and two	
Setting: US	100 /0 other sumulant misuse by sen-report		group sessions including HIV education, behavioural skills training and printed	
Info on Screening Process: 938 screened, 176	Exclusions: - not African American women		materials. Intervention was delivered	
did not return for second assessment; 762	- <18 years - did not engage in unprotected sex during last 90 days		within a gender- and culture-specific focus.	
randomised	- crack use <13 times in last 90 days		Group 3 N= 199	
	- enrolled in substance misuse treatment within past 30 days  Notes: PRIMARY DIAGNOSIS: Crack misuse		Psychoeducation with outpatient -	
	Baseline: Drug use behaviours: number days smoked crack in past 30 days = 17.1; ever injected = 10.7%		Standard: contained most of the components of the other interventions, such as HIV education, behavioural skills training and printed materials but did not	
	Sexual risk behaviours: engaged in unprotected sex in past 30 days = 88.5%, ever traded sex for money or drugs = 66.7%, traded sex for money or drugs = 42.8%		have the gender-specific and culture- specific focus.	

# **Characteristics of Excluded Studies**

Reference ID Reason for Exclusion

**BAKER2001** Small sample size **BOATLER1994A** Not an RCT

BOOTH1996 Cluster-randomised; no extractable data (regression analysis)

BOOTH2004 Outcomes not reported by treatment condition

**BRAINE2004A** Primary focus on alcohol

CHOOPANYA2003 Cohort study
COMPTON1998A Cohort study
COMPTON2000A Cohort study

CONROD2000A Primarily alcohol misusers

DAVIS2003 Primary focus on alcohol
DONOVAN2001 No extractable drug outcomes

ELBASSEL2005 Cohort study

FISHER2003 Not psychosocial intervention

HEIL2005A No relevant outcomes (study reported HIV knowledge)

HERSHBERGER2003 Not an RCT

**KWIATKOWSKI1999** Subgroup analysis only **LASH2005** No extractable outcomes

LINDENBERG2002A Small proportion of sample were drug users

MALOW1992 Did not directly assess harm-reduction outcomes

MARSCH2004A Not relevant comparison

MARTIN2001A Did not assess required outcomes

MCCUSKER1992A Data not broken down by groups

ONDERSMA2005 No drug-use outcomes assessed

**RILEY2000A** Not intervention

**ROHSENOW2004** Outcomes not reported by assigned groups

**SAUNDERS1995** No extractable outcomes

SCOTT2001 Motivational interviewing greater than two sessions

SHERMAN2006 No control group

STARK2005 Not a psychosocial intervention STEIN2002B Primary focus on alcohol misuse STEPHENS2004 Did not assess required outcomes

STERK2003B Subgroup analysis only

#### References of Included Studies

AVANTS2004 (Published Data Only)

Avants, S.K., Margolin, A., Usubiaga, M.H., et al. (2004) Targeting HIV-related outcomes with intravenous drug users maintained on methadone: a randomized clinical trial of a harm reduction group therapy. Journal of Substance Abuse Treatment., 26, 67-78.

**BAKER1993** (Published Data Only)

Baker, A., Heather, N., Wodak, A., et al. (1993) Evaluation of a cognitive-behavioural intervention for HIV prevention among injecting drug users. AIDS, 7, 247-256.

BAKER1994 (Published Data Only)

Baker, A., Kochan, N., Dixon, J., et al. (1994) Controlled evaluation of a brief intervention for HIV prevention among injecting drug users not in treatment. AIDS Care, 6, 559-570.

BAKER2005 (Published Data Only)

Baker, A., Lee, N.K., Claire, M., et al. (2005) Brief cognitive behavioural interventions for regular amphetamine users: a step in the right direction. Addiction, 100, 367-378.

BERNSTEIN2005 (Published Data Only)

Bernstein, J., Bernstein, E., Tassiopoulos, K., et al. (1907) Brief motivational intervention at a clinic visit reduces cocaine and heroin use. Drug and Alcohol Dependence, 77, 49-59.

CARROLL2006A (Published Data Only)

Carroll, K.M., Easton, C.J., Nich, C., et al. (2006) The use of contingency management and motivational/skills-building therapy to treat young adults with marijuana dependence. Journal of Consulting and Clinical Psychology, 74, 955-966.

Carroll, K.M., Ball, S.A., Nich, C., et al. (2006) Motivational interviewing to improve treatment engagement and outcome in individuals seeking treatment for substance abuse: a multisite effectiveness study. Drug and Alcohol Dependence, 81, 28.

COLON1993 (Published Data Only)

Colon, H.M., Robles, R.R., Freeman, D., et al. (1993) Effects of an HIV risk reduction education program among injection drug users in Puerto Rico. Puerto Rico Health Sciences Journal, 12, 27-34.

COPELAND2001 (Published Data Only)

Copeland, J., Swift, W., Roffman, R., et al. (2001) A randomized controlled trial of brief cognitive-behavioral interventions for cannabis use disorder. Journal of Substance Abuse Treatment, 21, 55-64

**ELDRIDGE1997** (Published Data Only)

Eldridge, G.D., St Lawrence, J.S., Little, C. E., et al. (1997) Evaluation of the HIV risk reduction intervention for women entering inpatient substance abuse treatment. AIDS Education & Prevention, 9, 62-76.

**EPSTEIN2003** (Published Data Only)

\*Epstein, D.H., Hawkins, W.E., Covi, L., et al. (2003) Cognitive-behavioral therapy plus contingency management for cocaine use: findings during treatment and across 12-month follow-up. Psychology of Addictive Behaviors, 17, 73-82.

Schroeder, J.R., Epstein, D.H., Umbricht, A., et al. (2006) Changes in HIV risk behaviors among patients receiving combined pharmacological and behavioral interventions for heroin and cocaine dependence. Addictive Behaviours, 31, 868-879.

**GIBSON1999** (Published Data Only)

Gibson, D.R., Lovelle-Drache, J., Young, M., et al. (1999) Effectiveness of brief counseling in reducing HIV risk behavior in injecting drug users: final results of randomized trials of counseling with and without HIV testing. AIDS and Behavior, 3, 3-12.

HARRIS1998 (Published Data Only)

Harris, R.M., Bausell, R.B., Scott, D E., et al. (1998) An intervention for changing high-risk HIV behaviors of African American drug-dependent women. Research in Nursing and Health, 21, 239-250.

KIDORF2005 (Published Data Only)

Kidorf, M., Disney, E., King, V., et al. (2005) Challenges in motivating treatment enrollment in community syringe exchange participants. Journal of Urban Health, 82, 456-467.

**KOTRANSKI1998** (Published Data Only)

Kotranski, L., Semaan, S., Collier, K., et al. (1998) Effectiveness of an HIV risk reduction counseling intervention for out-of-treatment drug users. AIDS Education and Prevention, 10, 19-33.

MALOTTE1998 (Published Data Only)

Malotte, C.K., Rhodes, F. & Mais, K.E. (1998) Tuberculosis screening and compliance with return for skin test reading among active drug users. American Journal of Public Health, 88, 792-796.

MALOTTE1999 (Published Data Only)

Malotte, C.K., Hollingshead, J.R. & Rhodes, F. (1999) Monetary versus nonmonetary incentives for TB skin test reading among drug users. American Journal of Preventive Medicine, 16, 182-188.

MALOTTE2001 (Published Data Only)

Malotte, C.K., Hollingshead, J.R. & Larro, M. (2001) Incentives vs outreach workers for latent tuberculosis treatment in drug users. American Journal of Preventive Medicine, 20, 103-107.

MALOW1994 (Published Data Only)

Malow, R.M., West, J.A., Corrigan, S.A., et al. (1994) Outcome of psychoeducation for HIV risk reduction. AIDS Education and Prevention, 6, 113-125.

MARGOLIN2003 (Published Data Only)

Margolin, A., Avants, S.K., Warburton, L.A., et al. (2003) A randomized clinical trial of a manual-guided risk reduction intervention for HIV-positive injection drug users. Health Psychology, 22, 223-228.

MARSDEN2006 (Published Data Only)

Marsden, J., Stillwell, G., Barlow, H., et al. (2006) An evaluation of a brief motivational intervention among young ecstasy and cocaine users: no effect on substance and alcohol use outcomes. Addiction, 101, 1014-1026.

MCCAMBRIDGE2004 (Published Data Only)

McCambridge, J. & Strang, J. (2005) Deterioration over time in effect of Motivational Interviewing in reducing drug consumption and related risk among young people. Addiction, 100, 470-478.

\*McCambridge, J. & Strang, J. (2004) The efficacy of single-session motivational interviewing in reducing drug consumption and perceptions of drug-related risk and harm among young people: results from a multi-site cluster randomized trial. Addiction, 99, 39-52.

MILLER2003 (Published Data Only)

Miller, W.R., Yahne, C.E. & Tonigan, J.S. (2003) Motivational interviewing in drug abuse services: a randomized trial. Journal of Consulting and Clinical Psychology, 71, 754-763.

MITCHESON2007 (Published Data Only)

Mitcheson, L., McCambridge, J. & Byrne, S. (2007) Pilot cluster-randomised trial of adjunctive motivational interviewing to reduce crack cocaine use in clients on methadone maintenance. European Addiction Research, 13, 6-10.

**ONEILL1996** (Published Data Only)

O'Neill, K., Baker, A., Cooke, M., et al. (1996) Evaluation of a cognitive-behavioural intervention for pregnant injecting drug users at risk of HIV infection. Addiction, 91, 1115-1125.

DRUG MISUSE: PSYCHOSOCIAL INTERVENTIONS

ROSEN2007 (Published Data Only)

Rosen, M. I., Dieckhaus, K., McMahon, T. J., et al. (2007). Improved adherence with contingency management. AIDS Patient Care STDS, 21, 30-40.

**SCHILLING1991** (Published Data Only)

Schilling, R.F., El-Bassel, N., Schinke, S.P., et al. (1991) Building skills of recovering women drug users to reduce heterosexual AIDS transmission. Public Health Reports, 106, 297-304.

**SEAL2003** (Published Data Only)

Seal, K.H., Kral, A.H., Lorvick, J., et al. (2003) A randomized controlled trial of monetary incentives vs. outreach to enhance adherence to the hepatitis B vaccine series among injection drug users. Drug and Alcohol Dependence, 71, 127-131.

**SIEGAL1995** (Published Data Only)

Siegal, H.A., Falck, R.S., Carlson, R.G., et al. (1995) Reducing HIV needle risk behaviors among injection-drug users in the Midwest: an evaluation of the efficacy of standard and enhanced interventions. AIDS Education and Prevention, 7, 308-319.

SORENSEN1994 (Published Data Only)

Sorensen, J.L., London, J., Heitzmann, C., et al. (1994) Psychoeducational group approach: HIV risk reduction in drug users. AIDS Education and Prevention, 6, 95-112.

**SORENSEN2006** (Published Data Only)

Sorensen, J.L., Haug, N.A., Delucchi, K.L., et al. (2006) Voucher reinforcement improves medication adherence in HIV-positive methadone patients: a randomized trial. Drug and Alcohol Dependence [epub ahead of print].

**STEPHENS2000** (Published Data Only)

Stephens, R.S., Roffman, R.A. & Curtin, L. (2000) Comparison of extended versus brief treatments for marijuana use. Journal of Consulting and Clinical Psychology, 68, 898-908.

**STEPHENS2002** (Published Data Only)

Stephens, R.S., Babor, T.F., Kadden, R., et al. (2002) The Marijuana Treatment Project: rationale, design and participant characteristics. Addiction, 97, Suppl 1, 109-124.

**STERK2003** (Published Data Only)

Sterk, C.E., Theall, K.P., Elifson, K.W., et al. (2003) HIV risk reduction among African-American women who inject drugs: a randomized controlled trial. AIDS and Behavior, 7, 73-86.

STOTTS2001 (Published Data Only)

Stotts, A.L., Schmitz, J.M., Rhoades, H.M., et al. (2001) Motivational interviewing with cocaine-dependent patients: a pilot study. Journal of Consulting and Clinical Psychology, 69, 858-862.

TUCKER2004A (Published Data Only)

Tucker, T., Fry, C.L., Lintzeris, N., et al. (2004) Randomized controlled trial of a brief behavioural intervention for reducing hepatitis C virus risk practices among injecting drug users. Addiction, 99, 1157-1166.

**WECHSBERG2004** (Published Data Only)

Wechsberg, W.M., Lam, W.K., Zule, W.A., et al. (2004) Efficacy of a woman-focused intervention to reduce HIV risk and increase self-sufficiency among African American crack abusers. American Journal of Public Health. 94, 1165-1173.

#### **References of Excluded Studies**

BAKER2001 (Published Data Only)

Baker, A., Boggs, T.G. & Lewin, T.J (2001) Randomized controlled trial of brief cognitive-behavioural interventions among regular users of amphetamine. Addiction, 96, 1279-1287.

BOATLER1994A (Published Data Only)

Boatler, J.F., Knight, K. & Simpson, D.D. (1994) Assessment of an AIDS intervention program during drug abuse treatment. Journal of Substance Abuse Treatment, 11, 367-372.

**BOOTH1996** (Published Data Only)

Booth, R.E., Crowley, T.J. & Zhang, Y. (1996) Substance abuse treatment entry, retention and effectiveness: out-of-treatment opiate injection drug users. Drug and Alcohol Dependence, 42, 11-20.

BOOTH2004 (Published Data Only)

Booth, R.E., Corsi, K.F. & Mikulich, S.K. (2003) Improving entry to methadone maintenance among out-of-treatment injection drug users. Journal of Substance Abuse Treatment, 24, 305-311. 
\*Booth, R.E., Corsi, K.F. & Mikulich-Gilbertson, S.K. (2004) Factors associated with methadone maintenance treatment retention among street-recruited injection drug users. Drug and Alcohol Dependence, 74, 177-185.

BRAINE2004A (Published Data Only)

Braine, N., Des, J., Ahmad, S., et al. (2004) Long-term effects of syringe exchange on risk behavior and HIV prevention. AIDS Education and Prevention, 16, 264-275.

CHOOPANYA2003 (Published Data Only)

Choopanya, K., Des, J., Vanichseni, S., et al. (2003) HIV risk reduction in a cohort of injecting drug users in Bangkok, Thailand. Journal of Acquired Immune Deficiency Syndromes, 33, 88-95.

COMPTON1998A (Published Data Only)

Compton, W.M., Cottler, L.B., Spitznagel, E.L., et al. (1998) Cocaine users with antisocial personality improve HIV risk behaviors as much as those without antisocial personality. Drug and Alcohol Dependence, 49, 239-247.

COMPTON2000A (Published Data Only)

Compton, W.M., Cottler, L.B., Ben-Abdallah, A., et al. (2000) The effects of psychiatric comorbidity on response to an HIV prevention intervention. Drug and Alcohol Dependence, 58, 247-257.

**CONROD2000A** (Published Data Only)

Conrod, P.J., Stewart, S.H., Pihl, R.O., et al. (2000) Efficacy of brief coping skills interventions that match different personality profiles of female substance abusers. Psychology of Addictive Behaviors, 14, 231-242.

**DAVIS2003** (Published Data Only)

Davis, T.M., Baer, J.S., Saxon, A.J., et al. (2001) Brief motivational feedback improves post-incarceration treatment contact among veterans with substance use disorders. Drug and Alcohol Dependence, 69, 197-203.

**DONOVAN2001** (Published Data Only)

Donovan, D.M., Rosengren, D.B., Downey, L., et al. (2001) Attrition prevention with individuals awaiting publicly funded drug treatment. Addiction, 96, 1149-1160.

**ELBASSEL2005** 

El-Bassel, N., Gilbert, L., Wu, E., et al. (2005) HIV and intimate partner violence among methadone-maintained women in New York City. Social Science and Medicine, 61, 171-183.

FISHER2003 (Published Data Only)

Fisher, D.G., Fenaughty, A.M., Cagle, H.H., et al. (2003) Needle exchange and injection drug use frequency: a randomized clinical trial. Journal of Acquired Immune Deficiency Syndromes, 33, 199-205.

**HEIL2005A** (Published Data Only)

Heil, S.H., Sigmon, S.C., Mongeon, J.A., et al. (2005) Characterizing and improving HIV/AIDS knowledge among cocaine-dependent outpatients. Experimental and Clinical Psychopharmacology, 13, 238-243.

**HERSHBERGER2003** (Published Data Only)

Hershberger, S.L., Wood, M.M. & Fisher, D.G. (2003) A cognitive-behavioral intervention to reduce HIV risk behaviors in crack and injection drug users. AIDS and Behavior, 7, 229-243.

**KWIATKOWSKI1999** (Published Data Only)

Kwiatkowski, C.F., Stober, D.R., Booth, R.E., et al. (1999) Predictors of increased condom use following HIV intervention with heterosexually active drug users. Drug and Alcohol Dependence, 54, 57-62.

LASH2005

Lash, S.J., Gilmore, J.D., Burden, J.L., et al. (2005) The impact of contracting and prompting substance abuse treatment entry: a pilot trial. Addictive Behaviors, 30, 415-422.

**LINDENBERG2002A** (Published Data Only)

Lindenberg, C.S., Solorzano, R.M., Bear, D., et al. (2002) Reducing substance use and risky sexual behavior among young, low-income, Mexican-American women: comparison of two interventions. Applied Nursing Research., 15, 137-148.

MALOW1992 (Published Data Only)

Malow, R.M., Corrigan, S.A., Pena, J.M., et al. (1992) Effectiveness of a psychoeducational approach to HIV risk behavior reduction. Psychology of Addictive Behaviors, 6, 120-125.

MARSCH2004A (Published Data Only)

Marsch, L.A. & Bickel, W.K. (2004) Efficacy of computer-based HIV/AIDS education for injection drug users. American Journal of Health Behavior, 28, 316-327.

MARTIN2001A (Published Data Only)

Martin, J., Sabugal, G.M., Rubio, R., et al. (2001) Outcomes of a health education intervention in a sample of patients infected by HIV, most of them injection drug users: possibilities and limitations. AIDS Care, 13, 467-473.

MCCUSKER1992A (Published Data Only)

McCusker, J., Bigelow, C., Zapka, J.G., et al. (1994) HIV-1 antibody testing among drug users participating in AIDS education. Patient Education and Counseling, 24, 267-278.

\*McCusker, J., Stoddard, A.M., Zapka, J.G., et al. (1992) AIDS education for drug abusers: evaluation of short-term effectiveness. American Journal of Public Health, 82, 533-540.

ONDERSMA2005 (Published Data Only)

Ondersma, S.J., Chase, S.K., Svikis, D.S., et al. (2005) Computer-based brief motivational intervention for perinatal drug use. Journal of Substance Abuse Treatment, 28, 305-312.

**RILEY2000A** (Published Data Only)

Riley, E.D., Safaeian, M., Strathdee, S.A., et al. (2000) Comparing new participants of a mobile versus a pharmacy-based needle exchange program. Journal of Acquired Immune Deficiency Syndromes, 24, 57-61.

ROHSENOW2004 (Published Data Only)

Rohsenow, D.J., Monti, P.M., Martin, R.A., et al. (2004) Motivational enhancement and coping skills training for cocaine abusers: effects on substance use outcomes. Addiction, 99, 862-874.

**SAUNDERS1995** (Published Data Only)

Saunders, B., Wilkinson, C. & Phillips, M. (1995) The impact of a brief motivational intervention with opiate users attending a methadone programme. Addiction, 90, 415-424.

SCOTT2001

Scott, C.K., Dennis, M.L. & Foss, M.A. (2004) Utilizing recovery management checkups to shorten the cycle of relapse, treatment reentry, and recovery. Drug and Alcohol Dependence, 78, 325-338.

SHERMAN2006 (Published Data Only)

Sherman, S.G., German, D., Cheng, Y., et al. (2006) The evaluation of the JEWEL project: an innovative economic enhancement and HIV prevention intervention study targeting drug using women involved in prostitution. AIDS Care, 18, 1.

**STARK2005** (Published Data Only)

Stark, K., Herrmann, U., Ehrhardt, S., et al. (2005) A syringe exchange programme in prison as prevention strategy against HIV infection and hepatitis B and C in Berlin, Germany. Epidemiology and Infection [epub Dec 22 2005].

**STEIN2002B** (Published Data Only)

\*Stein, M.D., Anderson, B., Charuvastra, A., et al. (2002) A brief intervention for hazardous drinkers in a needle exchange program. Journal of Substance Abuse Treatment, 22, 23-31.

Stein, M.D., Charuvastra, A., Maksad, J., et al. (2002) A randomized trial of a brief alcohol intervention for needle exchangers (BRAINE). Addiction, 97, 691-700.

**STEPHENS2004** (Published Data Only)

Stephens, R.S., Roffman, R.A., Fearer, S.A., et al. (2004) The marijuana check-up: reaching users who are ambivalent about change. Addiction, 99, 1323-1332.

STERK2003B (Published Data Only)

Sterk, C.E., Theall, K.P. & Elifson, K.W. (2003) Who's getting the message? Intervention response rates among women who inject drugs and/or smoke crack cocaine. Preventive Medicine, 37, 119-128.

© NCCMH. All rights reserved.

# Characteristics of reviewed studies: Brief interventions versus standard interventions

# **Comparisons Included in this Clinical Question**

Motivational interviewing versus CBT

BAKER1993 COPELAND2001 STEPHENS2000 STEPHENS2002

Methods	Participants	Outcomes	Interventions	Notes
BAKER1993				
Study Type: RCT (randomised controlled trial)  Type of Analysis: Per protocol  Blindness: Single blind  Duration (days): Mean 42  Followup: 6 months  Setting: Australia, MMT programme  Notes: RANDOMISATION: Stratified on sex and HIV status. Within each couple, both partners allocated to same group to avoid confounding treatment effects.	n= 95 Age: Mean 31 Sex: 44 males 51 females Diagnosis: 100% opioid dependence by eligibility for/receipt of MMT 100% IDU (injection drug use) by self-report  Exclusions: - not injected drugs in last 6 months - not agreed to HIV testing - diagnosis of schizophrenia, bipolar disorder, psychosis, organic brain damage  Baseline: HIV status: 6 were HIV-positive	Data Used Reduced risk behaviours	Group 1 N= 31  CBT: RP (relapse prevention) with outpatient, six sessions, each 60-90 mins, conducted individually. First session motivational interview. Second to sixth sessions focused on specific techniques to reduce injecting and sexual risk behaviour.  Opioid agonist: MMT (methadone maintenance) with outpatient.  Group 2 N= 31  AMI (adapted motivational interviewing): MI with outpatient - Single session lasting 60-90 mins. Aimed to raise motivation to change needle use and unsafe sexual behaviour. Major aim to have participant express concerns about high risk behaviours and express desire to change. Opioid agonist: MMT (methadone maintenance) with outpatient.  Group 3 N= 33  Control: TAU (treatment as usual) with outpatient - Advice about HIV risk behaviours normally available from staff at methadone programmes and via an education leaflet.  Opioid agonist: MMT (methadone maintenance) with outpatient.	
COPELAND2001  Study Type: RCT (randomised controlled trial)  Blindness: Single blind  Duration (days):  Followup: 24 weeks  Setting: Australia  Info on Screening Process: 1075 screened, 565 excluded; of 510 eligible, 225 did not make appointments to attend and 47 didn't turn up for assessment; prior to randomisation, 9 exceeded criteria for alcohol misuse	n= 229 Age: Mean 32 Sex: 159 males 70 females Diagnosis: 96% cannabis dependence by DSM-IV  Exclusions: - no desire to cease cannabis use - > weekly use of drugs other than cannabis, nicotine, or alcohol in past 6 months (AUDIT scores >15) - received formal treatment for cannabis dependence in previous 3 months  Baseline: Mean years of weekly cannabis use = 13.9	Data Used Abstinence at 6 months Abstinence: days drug free Drug use: days per month Notes: DROPOUTS at 6-month follow-up: 6 CB' = 20%, 1 MI (motivational interviewing) =25%	Group 1 N= 82  AMI (adapted motivational interviewing): Mi with outpatient, one session for 90 mins. Combined principles of MI and CBT.	Study quality: 1+

				Appei
Study Type: RCT (randomised controlled trial)  Blindness: No mention  Duration (days): Not given  Followup: 1, 4, 7 and 13 months  Setting: US  Info on Screening Process: 601 screened, 183 excluded (cannabis used <50 times in 90 days (n=24), alcohol or other drug misuse in last 90 days (n=149), severe psychological distress (n=8), other formal treatment (n=2)). Of eligible sample, 127 didn't complete pre-treatment session.	n= 291 Age: Mean 34 Sex: 224 males 67 females Diagnosis: Not given Exclusions: - cannabis used <50 times in last 90 days - alcohol or other drug misuse in last 90 days - severe psychological distress - receiving other formal treatment  Baseline: Years of use = 17.35 (5.21), days of use past 90 days = 74.64 (18.54)	Data Used Cannabis use: days in past 3 months Notes: DROPOUTS: CBT = 19%, MI (motivational interviewing) = 8%, waitlist = 8%	Group 1 N= 117  CBT: group RP (relapse prevention) with outpatient - 14 x 2-hour CBT: RP group sessions over an 18-week period. Sessions 1-10 weekly, 11-14 every other week. Weeks 1-4 involved building motivation for change and high-risk situations identified, 5-10 building coping skills, 11-14 coping with rationalisations.  Group 2 N= 88  AMI (adapted motivational interviewing): MI with outpatient - Two 90-min individual sessions. Involved MI (e.g. reflective listening, affirmation and reframing) and CBT techniques (identifying high-risk situations). Second session (1 month after) reviewed previous session and feedback received.  Group 3 N= 86  Control: waitlist with outpatient - Waitlist of 4 months until treatment.	Study quality: 1+
STEPHENS2002  Study Type: RCT (randomised controlled trial)  Blindness: Not given  Duration (days): Not given  Followup: 4 and 9 months  Setting: Three US urban areas  Notes: RANDOMISATION: Conducted centrally at the the Center for Substance Abuse  Treatment using urn randomisation programme  Info on Screening Process: 1211 screened, 398 excluded (dependence on other drugs (31%), unwilling to accept random assignment (21%), currently receiving therapy (20%), did not provide contact person (20%), legal status (16%)); 363 eligible but did not complete assessment.	n= 450 Age: Mean 36 Sex: 306 males 144 females Diagnosis: 100% cannabis dependence by DSM-IV  Exclusions: - <18 years - dependence on other drugs or alcohol - inability to provide a person who could assist in contact at follow-up - legal status that would disrupt treatment - currently receiving therapy  Notes: Ethnicity: White = 69.3%, Hispanic = 17.3%, African American = 12.2%, Other = 1.1%  Baseline: Proportion of days drug used in last 90 days = 0.88, hours high per day = 6.62, ounces of cannabis per week = 0.40, number of joints per day = 2.89	Data Used Cannabis use: days in past 3 months Abstinence: no use for 3 months Notes: DROPOUTS: MI (motivational interviewing) = 18/146 (12.3%), CBT = 23/156 (15%), waitlist =11/148 (7.5%)	Group 1 N= 148  Control: waitlist with outpatient  Group 2 N= 146  AMI (adapted motivational interviewing): MI with outpatient - Two 1-hour sessions 1 and 5 weeks after randomisation. Discussed a personal feedback report to motivate participant to make changes attitudes favouring and opposing change, treatment goals etc; in second session efforts to reduce cannabis use reviewed.  Group 3 N= 156  CBT: coping skills training with outpatient - nine sessions over a 12-week period. First eight sessions weekly, ninth session 4 weeks after eighth session to review changes. Combined motivational aspects with CBT and case management.	Study quality: 1+

## **Characteristics of Excluded Studies**

Reference ID Reason for Exclusion
BAKER2002 Psychiatric population
n<10 per group

## **References of Included Studies**

**BAKER1993** (Published Data Only)

Baker, A., Heather, N., Wodak, A., et al. (1993) Evaluation of a cognitive-behavioural intervention for HIV prevention among injecting drug users. AIDS, 7, 247-256.

COPELAND2001 (Published Data Only)

Copeland, J., Swift, W., Roffman, R., et al. (2001) A randomized controlled trial of brief cognitive-behavioral interventions for cannabis use disorder. Journal of Substance Abuse Treatment, 21, 55-64.

**STEPHENS2000** (Published Data Only)

Stephens, R.S., Roffman, R.A. & Curtin, L. (2000) Comparison of extended versus brief treatments for marijuana use. Journal of Consulting and Clinical Psychology, 68, 898-908.

**STEPHENS2002** (Published Data Only)

Stephens, R.S., Babor, T.F., Kadden, R., et al. (2002) The Marijuana Treatment Project: rationale, design and participant characteristics. Addiction, 97, Suppl 1, 109-124.

## **References of Excluded Studies**

### BAKER2002

Baker, A., Lewin, T., Reichler, H., et al. (2002) Evaluation of a motivational interview for substance use within psychiatric in-patient services. Addiction, 97, 1329-1337.

## **BUDNEY2000** (Published Data Only)

Budney, A.J., Higgins, S.T., Radonovich, K.J., et al. (2000) Adding voucher-based incentives to coping skills and motivational enhancement improves outcomes during treatment for marijuana dependence. Journal of Consulting and Clinical Psychology, 68, 1051-1061.

© NCCMH. All rights reserved.