Comparisons Included in this Clinical Question

(Buprenorphine + CM) vs Control

GROSS2006

KOSTEN2003

SCHOTTENFELD2005

(Desipramine + CBT) vs Control

(Desipramine + CM) vs Control

KOSTEN2003

(Disulfiram + CBT) vs Control

(LAAM + DBT) vs (LAAM + CVT + 12 step)

(MMT + CBT) vs Control

EPSTEIN2003 RAWSON2002 UKCBTMM2004 WOODY1983 (MMT + CM) vs Control

CHUTUAPE2001 EPSTEIN2003 MCLELLAN1993

PEIRCE2006 PETRY2002

PETRY2005C

PRESTON2000 RAWSON2002

SCHOTTENFELD2005

SILVERMAN1998

SILVERMAN2004

STITZER1992

(MMT + CRA) vs Control

(MMT + FT) vs Control

CATALANO1999

FALSSTEWART2001

(MMT + intensive treatment) vs Control

AVANTS1999 MCLELLAN1993 (MMT + IPT) vs Control

(MMT + SE) vs (MMT + CBT)

WOODY1983

(MMT + SE) vs Control

WOODY1983

WOODY1995

(Naltrexone + CBT) vs Control

RAWSON2001 TUCKER2004B

Followup: 6 months

(Naltrexone + CM) vs Control

CARROLL2001B CARROLL2002

PRESTON1999

(Naltrexone + FT) vs Control

CARROLL2001B

FALSSTEWART2003

CBT vs Control

MMT+CM vs MMT+NCM

Characteristics of Included Studies

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Methods	Participants	Outcomes	Interventions	Notes		
AVANTS1999						
Study Type: RCT (randomised controlled trial)	n= 291	Data Used		Study quality: 1+		
Type of Analysis: Per protocol	Age: Mean 36	Abstinence: % with negative urine sample per day	Structured day treatment with Outpatient. Mean dose 81.7mg/day - 5h/day,			
Blindness: Open	Sex: 205 males 86 females		5days/week manual guided program in 5			
Duration (days): Mean 84	Diagnosis: 46% Cocaine dependence by DSM-III-R		general areas: 1) substance abuse treatment 2) physical and emotional			

Catting, LIC		Notes: DROPOUTS: CBT = 28/146 Day	health 3) community development 4)	
Setting: US	5% Cocaine misuse by DSM-III-R	Treatment = 26/145	development of alternative reinforcers 5)	
Info on Screening Process: 308 eligible > 291 enrolled	Evaluaiona: Not reported		basic daily living skills Group 2 N= 146	
emoned	Exclusions: Not reported Baseline: Years of opiate use = 12.7 (8.3) Injection use = 74% Years of cocaine use = 8.9		CBT: group with Outpatient. Mean dose 78.1mg - 2h/week manual guided group CBT intervention. Used 9 sessions from Monti's manual and 3 additional sessions on physical health, vocational skills, and community resources.	
CARROLL2001B			·	
Study Type: RCT (randomised controlled trial)	- n= 55	Data Used	Group 1 N= 20	Study quality: 1++
Olday Type. Not (randomised controlled that)	Age: Mean 34	Abstinence: negative urinalysis	Naltrexone maintenance with Outpatient.	Olday quality. 111
Blindness: No mention	Sex: 36 males 19 females		Mean dose 100 mg - Received naltrexone	
Duration (days): Mean 84			3 times/week (Monday, 100mg;	
Followup: 6 months	Diagnosis: 100% Opiate dependence by DSM-IV		Wednesday, 100mg; Friday, 150mg), urine samples collected 3 times/week,	
Setting: US	10070 Opiato depondence by Dolvi-IV		and weekly group therapy sessions	
Notes: RANDOMISATION: Urn randomization	Exclusions: Did not meet DSM-IV criteria for opioid		CM: vouchers with Outpatient - High	
programme	dependence, did not complete detox, significant medical		value CM: received vouchers contingent on compliance with naltrexone	
Info on Screening Process: 70 screened, exclusions: 3 already receiving drug treatment,	conditions (e.g. abnormal liver function, or active hepatitis), met DSM-IV criteria for schizophrenia or bipolar disorder, could not provide names and locator information of at least 3		maintenance and urine samples negative for opiates, cocaine and BZDs. Maximum earning of \$1,152 - increase in value for	
6 did not complete detox, 2 needed inpatient hospitalization, 4 drop outs at screening stage; mean number of treatment weeks completed =	individuals who would know whereabouts of participant during follow up		each negative sample but reset to minimum if positive sample	
7.3: 1 completed 0 sessions, 32 completed <12	Baseline: Group: Naltrexone /		Group 2 N= 17	
sessions,	Naltrexone + low value vouchers / Naltrexone+high value		Naltrexone maintenance with Outpatient.	
	vouchers Years of opioid use: 4.9 (5.0) / 7.5		Mean dose 100mg - Received naltrexone 3 times/week (Monday, 100mg;	
	(6.2) / 4.9 (4.1)		Wednesday, 100mg; Friday, 150mg),	
	Previous opioid detoxs: 2.7 (2.6) / 3.2		urine samples collected 3 times/week,	
	(5.0) / 1.5		and weekly group therapy sessions CM: vouchers with Outpatient - Low value	
			CM: received vouchers contingent on	
			compliance with naltrexone maintenance	
			and urine samples negative for opiates, cocaine and BZDs. Maximum earning of	
			\$561.60, increase in value for each	
			negative sample but reset to minimum if	
			positive sample	
			Group 3 N= 18 Naltrexone maintenance with Outpatient.	
			Mean dose 100mg - Received naltrexone	
			3 times/week (Monday, 100mg;	
			Wednesday, 100mg; Friday, 150mg), urine samples collected 3 times/week,	
			and weekly group therapy sessions	
CARROLL2002				
Study Type: RCT (randomised controlled trial)	n= 55	Data Used	Group 1 N= 18	Study quality: 1+
Type of Analysis: ITT (all those randomised	Age: Mean 34	Abstinence: longest consecutive period	Naltrexone maintenance with Outpatient.	
rype of Analysis: 111 (all those randomised were analysed)	Sex: 36 males 19 females	Retention: weeks remained in treatment	Mean dose 100-150mg - 3 times weekly (100mg, 150mg on Fridays) naltrexone	
Blindness: Open	Diagnosis:	Abstinence: % with negative urine sample pe day	supervised by clinic nurse	
Duration (days): Mean 84	100% Opiate dependence by DSM-IV	Compliance: naltrexone doses taken	Group therapy with Outpatient - Weekly	
Followup: 1, 3 and 6 months			group therapy sessions at clinic	
Setting: New Haven, Connecticut, USA	Exclusions: - Did not complete detoxification - Significant medical conditions e.g. of the liver, or any			
Notes: Urn randomisation	condition that contraindicates naltrexone			
	- DSM-IV lifetime schizophrenia or bipolar disorder			
Info on Screening Process: 70 screened - 11	- Could not provide contact details of >=3 individuals who			

excluded (3 already receiving treatment, 6 did not complete detox, 2 required hospitalisation) - 4 dropped out during screening phase > 55 randomised	would know of participant's whereabouts during 6 months followup Notes: ETHNICITY: 6% African American, 9% Hispanic, 84% Caucasian Baseline: (Control / Low CM / High CM) Days opiate use in past 28: 8.3 / 11.1 / 12.8 Years regular opiate use: 4.9 / 7.5 / 4.9 Previous detox attempts: 2.7 / 3.2 / 1.5 Unemployed: 61.1% / 70.6% / 55.0% Receiving public assistance: 16.7% / 11.8% / 5.0% On probation/parole: 27.8% / 41.2% / 25.0% Previous MMT: 5.6% / 29.4% / 15.0% Previous naltrexone; 22.2% / 23.5% / 20.0% Lifetime DSM-IV cocaine dependence: 66.7% / 58.8% / 65.0% Lifetime DSM-IV alcohol dependence: 50.0% / 64.7% / 40.0%	Notes: 3 times weekly urine sample, coinciding with medication visits. DROPOUTS: 32/55	Group 2 N=17 Naltrexone maintenance - As per Control group Group therapy - As per Control group CM: vouchers with Outpatient - Two-track contingency: first -ve urine or naltrexone ingestion earned \$0.80, increased by \$0.40 for each successive reward. Any +ve/missing urine or missed naltrexone visit reset reward to \$0.80. Earnings exchanged for goods supporting drug-free lifestyle Group 3 N=20 Naltrexone maintenance with Outpatient - As per Control group Group therapy - As per Control group CM: vouchers with Outpatient - As per low CM group but with \$2.00 initial voucher value, and \$0.80 addition for each -ve urine/naltrexone dose ingested.	
CATALANO1999 Study Type: RCT (randomised controlled trial) Type of Analysis: ITT Blindness: No mention Duration (days): Mean 365 Setting: Two methadone clinics in USA Notes: RANDOMISATION: Blocked on race, parents' age at first drug use, parents' partnership status and ages of children Info on Screening Process: 78% of those eligible participated	n= 132 Age: Mean 35 Sex: 42 males 102 females Diagnosis: 100% Opiate dependence by Eligible for/receiving MMT Exclusions: - Not been in MMT for >=90 days - Do not have >=1 child aged 3-14 who lived with them >=50% of the time Notes: ETHNICITY: 105/132 white, 25/132 African-American, 7/132 other Baseline: Age at first opiate use: 19.1 Previous mths in MMT: 15.0	Data Used Cocaine use: times in past month Cannabis use: times in past month Heroin use: times in past month	Group 1 N= 74 FT: family training with Outpatient - Initial 5-hour family retreat and 32 twice-weekly 90-min sessions, in groups of 6-10 families; children attended 12 sessions. Skills training in relapse prevention and coping, anger management, child development, communication, refusal skills etc. Opiate agonist: MMT (methadone maintenance) with Outpatient - Standard methadone dispensing with "some individual and group counselling" Case management - Home-based case management to help parents and children generalise and maintain the skills learned in group sessions, for about 9 months (beginning 1 month before group training period) Group 2 N= 58 Opiate agonist: MMT (methadone maintenance) with Outpatient - Standard methadone dispensing with "some individual and group counselling"	Study quality: 1+
CHUTUAPE2001 Study Type: RCT (randomised controlled trial) Blindness: No mention Duration (days): Mean 238 Setting: US Info on Screening Process: 231 screened, 15 did not complete baseline phase, 9 were opioid and cocaine free, submitted greater than 80% drug positive urines	n= 53 Age: Sex: Diagnosis: 100% Opiate dependence by Eligible for/receiving MMT Exclusions: - opiate negative samples at intake - no signs of intravenous use - self reported opioid use (<= 21 of 30 days) for 6 or months of previous year - history of addiction <1year - serious medical or psychiatric illness	Data Used Response: abstinent >= 8 weeks Abstinence: weeks drug-free Notes: DROPOUTS: CM:weekly =6/16 CM:monthly = 3/18 NCM =1/19	Group 1 N= 19 NCM (noncontingent management) with Outpatient - Received take home doses based on individual weekly drawings rather than drug free urine results - probability of earning take homes was 50% Group 2 N= 18 CM: methadone with Outpatient - urinalysis results randomly selected monthly - a negative sample resulted in 3 take home doses till the next test. A positive sample resulted in cancellation of take home doses	Study quality: 1+

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	- pregnancy		Group 3 N= 16	
	Baseline: GROUPS: CM:weekly / CM:monthly / NCM Lifetime heroin use (months) 89 82 113 Lifetime cocaine use (months) 23 23 28		CM: methadone with Outpatient - urinalysis results randomly selected weekly - a negative sample resulted in 3 take home doses till the next test. A positive sample resulted in cancellation of take home doses	
EPSTEIN2003				
EPSTEIN2003 Study Type: RCT (randomised controlled trial) Blindness: No mention Duration (days): Mean 84 Followup: 12 months Setting: US Info on Screening Process: 286 screened	n= 193 Age: Mean 39 Sex: 110 males 83 females Diagnosis: 41% Cocaine dependence by DSM-III-R Exclusions: - <18 years >65 years - not intravenous opiate users - not cocaine user - current psychotic, bipolar, or major depressive disorders - current physical dependence on alcohol or sedatives - unstable medical illness - pregancy and breast feeding Baseline: Mean years of cocaine use = 11 (7.5) years Mean cocaine use = 18.3 (10.1) of last 30 days	Data Used Cocaine use: days Notes: DROPOUTS: Control = 12/49 CM = 9/47 CBT = 10/48 CBT+CM = 15/49	Group 1 N= 49 CM: vouchers with Outpatient - Earned vouchers for each urine specimen that was negative for cocaine. Vouchers began at \$2.50, increased by \$1.50 for each consecutive voucher earned. For 3 consecutive negative urines earned a \$10 bonus. 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 Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 70mg - Within first week participants stabilised on 70mg/day could request increase of up to 80mg/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, increased by \$1.50 for each consecutive voucher earned. For 3 consecutive negative urines earned a \$10 bonus. IDC (individual drug counselling) with Outpatient Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 70mg - Within first week participants stabilised on 70mg/day could request increase of up to 80mg/day Control: social support 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 Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 70mg - Within first week participants stabilised on 70mg/day could request increase of up to 80mg/day Control: social support group with Outpatient Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 70mg - Within first week participants stabilised on 70mg/day could request increase of up to 80mg/day NCM (noncontingent management) with Outpatient	

FALSSTEWART2001 Study Type: RCT (randomised controlled trial) Study Description: Male patients participated with female significant others Type of Analysis: Per protocol Blindness: No mention Duration (days): Mean 105 Setting: Two MMT clinics in USA Notes: RANDOMISATION: No details Info on Screening Process: 371 applicants > 89 married or cohabiting interviewed - 19 refused consent - 27 met exclusion critera > 43 enrolled and randomised	n= 43 Age: Mean 38 Sex: all males Diagnosis: 100% Opiate dependence by Eligible for/receiving MMT Opiate misuse Exclusions: - Male partner's age outside 21-60 range - Not married for >=1 yr or living with a female significant other in a stable common-law relationship for >=2 yrs - Ineligible for MMT - Seeking additional substance abuse treatment other than self-help meetings, unless recommended by primary therapist - Female partner met DSM-III-R criteria for substance use in past 6 mths - Either partner met DSM-III-R criteria fro an organic, schizophrenia, delusion or other psychotic disorder Notes: PRIMARY DIAGNOSIS: IV opiate users ETHNICITY: 18/36 white, 15/36 African American, 3/36 Hispanic Baseline: (GROUPS: BCT vs CBT) Problematic alcohol use (years): 8.2 / 7.8 Problematic opiate use (years): 5.8 / 5.6	Data Used ASI (Addiction Severity Index) Urinalysis: positive for opiates Urinalysis: positive for cocaine Notes: DROPOUTS: 5/22 CBT, 2/21 BCT	IDC (individual drug counselling) with Outpatient Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 70mg - Within first week participants stabilised on 70mg/day could request increase of up to 80mg/day NCM (noncontingent management) with Outpatient Control: social support group with Outpatient Control: social support group with Outpatient Group 1 N= 21 CBT: coping skills training - Once weekly 60-min individual sessions for males BCT (behavioural couples therapy) with Outpatient - One 60-min weekly session for 12 weeks: male and female partners met conjointly with therapist. Involved crisis intervention, sobriety trust discussion, reinforcing compliance, coping strategies for craving, communication skills, +ve behavioural exchanges Opiate agonist: MMT (methadone maintenance) - 60mg/day standard dose, increased at patient's request or opiate +ve urine sample. After 6 weeks of treatment, up to 2 take-home doses per week allowed if patient employed >=20 hours per week. Group 2 N= 22 CBT: coping skills training with Outpatient - Twice weekly 60-min individual sessions for males: with the aim to develop skills that would assist in drug use reduction efforts through cognitive restructuring, problem-solving, alternatives to drug use, anger management, assertiveness training etc. Opiate agonist: MMT (methadone maintenance) with Outpatient - 60mg/day standard dose, increased at patient's request or opiate +ve urine sample. After 6 weeks of treatment, up to 2 take-home doses per week allowed if patient employed >=20 hours per week.	Study quality: 1+
Study Type: RCT (randomised controlled trial) Type of Analysis: Missing data addressed. Unclear if ITT Blindness: No mention Duration (days): Mean 168 Followup: 12 months Setting: Two outpatient clinics in USA Notes: RANDOMISATION: No details Info on Screening Process: 459 screened - 17	n= 124 Age: Mean 33 Sex: all males Diagnosis: 100% Opiate dependence by DSM-III-R Exclusions: - Female - Did not demonstrate lack of "physiological" opiate dependence by naloxone challenge - Not living with a family member who's willing to participate, who also did not have substance use disorder,	Data Used TLFB (Timeline Followback) ASI (Addiction Severity Index) Urinalysis: positive for any drug Retention rate	Group 1 N= 62 Naltrexone maintenance with Outpatient. Mean dose 50mg/day - For first 2 weeks, 2 brief weekly visits with physician; also for first 3 weeks, 3 visits to agency nurse. Biweekly thereafter. Nurse and physician encouraged compliance and asked about side effects. No family involvement or compliance contract.	Study quality: 1+

met exclusion criteria - 318 refused to take schizophrenia, bipolar disorder or psychosis by DSM-III-R CBT: coping skills training with Physical condition which would make participation Outpatient - Twice weekly 60min naltrexone > 124 enrolled and randomised hazardous (e.g. acute hepatitis) individual sessions for first 16 weeks. - Suicidal or homicidal weekly for last 8 weeks. Cognitive - In MMT within past 30 days behavioural restructuring, problem solving, anger management, refusal Notes: ETHNICITY: 66% white, 25% African American, 4% skills, enhancing social support networks Hispanic, 6% other etc. Adapted from CBT programmes for Baseline: (GROUPS: family / individual) alcoholism. Opioid use (years): 6.6 / 5.9 Group therapy - 90min per week for first Problematic substance use: 12.7 / 11.3 16 weeks. No other details Cocaine dependence: 61% / 56% Group 2 N= 62 Alcohol dependence: 65% / 60% Naltrexone maintenance. Mean dose 50mg/day - For first 2 weeks, 2 brief weekly visits with physician; also for first 3 weeks, 3 visits to agency nurse. Biweekly thereafter. Nurse and physician encouraged compliance and asked about side effects. Naltrexone taken under supervision of family member CBT: coping skills training with Outpatient - Twice weekly 60min individual sessions for first 16 weeks, weekly for last 8 weeks. Cognitive behavioural restructuring, problem solving, anger management, refusal skills, enhancing social support networks etc. Adapted from CBT programmes for alcoholism. Group therapy - 90min per week for first 16 weeks. No other details FBT (family behavioural therapy) -Behavioural family counselling. Patient and family member met jointly with counsellor 60min weekly for 16 sessions. Established behavioural contract. instructions and behavioural rehearsal to reduce conflict and improve communication **GROSS2006** Study Type: RCT (randomised controlled trial) n = 60**Data Used** Group 1 N= 20 2-week buprenorphine induction + 8-week ASI (Addiction Severity Index) Opiate agonist: buprenorphine Age: Mean 32 Type of Analysis: ITT (missing urines as stabilisation period Abstinence: longest consecutive period maintenance - Standard care as per Sex: 33 males 27 females positive) preceded study Abstinence: weeks drug-free control group Study quality: 1+ Blindness: Open Diagnosis: CM:negative reinforcement with Notes: 3 times weekly buprenorphine dose and 100% Opiate dependence by DSM-IV Outpatient - Participants received 2 half-Duration (days): Mean 84 observed urine sample doses of bupe each day (3 half-doses on Fridays). Whenever urine is Setting: USA? Exclusions: - Age <18 cocaine/opiate +ve, only received 1 half-- Not in good health Notes: Randomisation by minimum likelihood dose that day (or 2 half-doses on Fridays) Acute psychosis or serious medical illness allocation stratified on 5 variables Group 2 N= 20 Pregnant Info on Screening Process: 95 enrolled - 35 CM: vouchers with Outpatient -Notes: ETHNICITY: 91% white failed to complete 8-week baseline phase > 60 Participants received vouchers for each randomised Baseline: (CM voucher / CM bupe / Control) negative urine sample. The first voucher Full-time employed: 65% / 60% / 35% was worth \$3.63 and increased in value Years regular opiate use: 9.34 / 7.16 / 12.39 for each consecutive negative urine. Age at first opiate use: 21.4 / 19.32 / 20.25 Opiate agonist: buprenorphine Years cocaine use: 7.15 / 3.81 / 5.55 maintenance with Outpatient

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			Group 3 N= 20 Control: standard care with Outpatient - Behavioural counselling 1hr/week. Discussion of personal relationships, causes and effects of opiate use, developing recreational activities, HIV education. Counsellors also provided assistance in job-finding, stable housing and other treatment needs Opiate agonist: buprenorphine maintenance with Outpatient	
KOSTEN2003				
Study Description: Intention to treat analysis up to 12 weeks, then completers analysis 13-24 weeks when CM was reduced. Blindness: Double blind Duration (days): Mean 168 Setting: US	Age: Mean 37 Sex: 105 males 55 females Diagnosis: 100% Opiate dependence by DSM-IV 100% Cocaine dependence by DSM-IV Exclusions: - Medical reasons for not taking desipramine (e.g. pregnancy, cardiac problems, acute hepatitis) - current suicidality or psychosis - inability to read or understand the symptom checklists - current alcohol or sedative dependence - use of non-diuretic anti-hypertensives or other medications that interact with study medications Notes: Ethnicity: white = 84 african american = 58 hispanic = 11 native american = 2	Urinalysis: positive for heroin Urinalysis: positive for cocaine Notes: DROPOUTS = 85/160 53% after 12 week	Desipramine with Outpatient - Started in week 2 at 50mg daily and increased 50mg every 2 days up to 150mg total dosage NCM (noncontingent management) with Outpatient - Received vouchers not contingent with illicit cocaine and oopiate use. Their vouchers were worth the average value of the contingency subjects for the previous week. Opiate agonist: buprenorphine maintenance with Outpatient - All participants stabilized on a median dose of 16mg before randomisation. Sublingua buprenorphine started at 4mg daily shifting to 8mg then 12mg by week 1, and to 16mg by week 2 Group 2 N= 40	
	Baseline: GROUP: DMI+CM / DMI+NCM / PLA + CM / PLA + NCM Heroin use(#days/month): 28.8 27.2 29.1 27.0 Cocaine use(#days/month): 13.8 13.4 16.5 14.0		CM: vouchers with Outpatient - 1-12 weeks: First cocaine and opiate negative urine received \$3, increased by \$1 with every consecutive negative urine, but reset after a positive sample. 13-16 weeks: each negative samples \$3, 17-20 weeks: 2 negative samples for \$6, 21-24 weeks: 3 for \$9 Placebo with Outpatient Opiate agonist: buprenorphine maintenance with Outpatient - All participants stabilized on a median dose of 16mg before randomisation. Sublingua buprenorphine started at 4mg daily shifting to 8mg then 12mg by week 1, anc to 16mg by week 2 Group 3 N= 40 Placebo with Outpatient NCM (noncontingent management) with Outpatient - Received vouchers not	
			contingent with illicit cocaine and oopiate use. Their vouchers were worth the average value of the contingency subjects for the previous week. Opiate agonist: buprenorphine maintenance with Outpatient - All participants stabilized on a median dose of 16mg before randomisation. Sublingua buprenorphine started at 4mg daily shifting to 8mg then 12mg by week 1, and to 16mg by week 2	

MCLELLAN1993 Study Type: RCT (randomised controlled trial) Type of Analysis: Per protocol Blindness: Open Duration (days): Mean 180 Setting: US Veterans Info on Screening Process: 144 screened, 13 excluded: medical or psychiatric conditions (n=6), did not follow through initial study procedures (n=7); 29 refused to participate; 2 dropped out after <2 weeks treatment, 5 could not be contacted for follow up	n= 92 Age: Mean 41 Sex: all males Diagnosis: 100% Opiate dependence by Eligible for/receiving MMT Exclusions: - serious medical/psychiatric disorder - plans for immediate move from area near clinic Notes: All were IV users Baseline: Years of substance use: Opiates = 11 Cocaine = 3 Problematic Alcohol =7	Data Used ASI (Addiction Severity Index)	Group 4 N= 40 CM: vouchers with Outpatient - 1-12 weeks: First cocaine and opiate negative urine received \$3, increased by \$1 with every consecutive negative urine, but reset after a positive sample. 13-16 weeks: each negative samples \$3, 17-20 weeks: 2 negative samples for \$6, 21-24 weeks: 3 for \$9 Desipramine with Outpatient - Started in week 2 at 50mg daily and increased 50mg every 2 days up to 150mg total dosage Opiate agonist: buprenorphine maintenance with Outpatient - All participants stabilized on a median dose of 16mg before randomisation. Sublingua buprenorphine started at 4mg daily shifting to 8mg then 12mg by week 1, anc to 16mg by week 2 Group 1 N= 29 CM: methadone with Outpatient - Combination of take home methadone doses contingent on negative urines and CBT. First month weekly counselling, the 2-6 months could reduce number of sessions (biweekly) if client showed signs of positive change Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 60-90mg Group 2 N= 31 Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 60-90mg Structured day treatment with Outpatient Consisted of contingent take home doses, CBT counselling, and access to extra professional resources: family therapy, employment counselling, psychiatrist Group 3 N= 32 Control: TAU (treatment as usual) with Outpatient - Minimal treatment - 15min session/month	Study quality: 1+
DEID CE2006			session/month Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 60-90mg	
PEIRCE2006	n 200	Date Hand	O 4 N 400	Chuch analihu 4
Study Type: RCT (randomised controlled trial)	n= 388	Data Used Abstinence: longest consecutive period	Group 1 N= 198	Study quality: 1+
Study Description: Research staff "unaware" of allocation assignment	Age: Mean 42 Sex: 211 males 177 females	Retention rate	CM (contingency management) with Outpatient - Prize draw for each sample -	
Type of Analysis: Missing urine samples as positive	Diagnosis:	Notes: Twice weekly urine and breath samples on nonconsecutive days	ve for cocaine, amph/meth AND alcohol. For each week with all samples -ve, +1	
	100% Opiate dependence by Eligible		draw. Any +ve sample reset to 1 draw.	
·			Bonus prize for first 2 weeks consecutive	
Blindness: Open	for/receiving MMT		Bonus prize for first 2 weeks consecutive ve samples. Max \$400 prizes + \$20 bonu:	
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Notes: Computerised stratified randomisation Info on Screening Process: 402 randomised - 14 later found to be ineligible > 388 in final study sample	- No stimulant +ve urine sample within 2 weeks of study entry - Not currently recovering from a gambling problem Notes: PRIMARY DIAGNOSIS: 74.9% cocaine abuse/dependence, 3.6% amph/methamphetamine abuse/dependence, 3.9% both drugs Baseline: (CM / Usual care) Unemployed: 69% / 68% DSM abuse/dependence diagnosis for past 90 days: stimulant 84.3% / 80.5%, alcohol 16.7% / 17.4%, cannabis 7.9% / 8.7% Days in treatment: 269 / 274 Methadone dose (mg): 86.6 / 85.1		Opiate agonist: MMT (methadone maintenance) - Daily methadone dose with standard indiv/group counselling, ranging from 3 times per week to once per month Group 2 N= 190 Opiate agonist: MMT (methadone maintenance) - Daily methadone dose with standard indiv/group counselling, ranging from 3 times per week to once per month	
PETRY2002 Study Type: RCT (randomised controlled trial) Type of Analysis: ITT Blindness: No mention Duration (days): Mean 84 Followup: 6months Setting: US Notes: RANDOMISATION: Probabilistic balancing techniques to control for gender, race, age etc Info on Screening Process: 5 excluded:1 withdrew consent, 4 uncontrolled psychosis	n= 42 Age: Mean 39 Sex: 12 males 30 females Diagnosis: Cocaine dependence by DSM-IV Exclusions: - not receiving a stable dose of methadone in past 3 months - not english speaking - MMSE <21 - active, uncontrolled psychosis or bipolar disorder Notes: Standard treatment = 91.3% CM = 100% cocaine dependence Baseline: GROUPS: TAU / CM Years of heroin use:13.8(1.9) / 14.9(1.6) Years of cocaine use: 12.0(1.8)/15.0(1.7)	Data Used Abstinence: longest consecutive period Abstinence: days drug-free Notes: DROPOUTS: CM = 1/19 TAU = 2/23	Group 1 N= 23 Control: TAU (treatment as usual) with Outpatient Group 2 N= 19 CM:Prizes with Outpatient - Negative sample for opioids or cocaine earned a draw from the bowl, negative for opioids and cocaine earned 4 draws. Negative samples on consecutive days earned bonus draws. Bowl had 250 slips of paper, 1/2 nonwinning, 109 small prizes, 15 large prizes	Study quality: 1+
PETRY2005C Study Type: RCT (randomised controlled trial) Blindness: No mention Duration (days): Mean 84 Followup: 6 Months Setting: US Notes: RANDOMISATION: Minimum likelihood allocation balanced by age, gender etc Info on Screening Process: 5 excluded	n= 77 Age: Mean 40 Sex: 21 males 56 females Diagnosis: Cocaine dependence by DSM-IV Exclusions: - unstable methadone dose - changes in dose in last 3 months not English speaking - MMSE <21 - in recovery fom pathological gambling - inability to attend groups Baseline: GROUPS: CM / TAU Years of heroin use: 15.9(1.2) / 17.7(1.2) Years of cocaine use: 13.2(1.5)/12.7(1.3)	Data Used Abstinence: longest consecutive period Notes: DROPOUTS: CM = 5/40 TAU = 6/37	Group 1 N= 40 Control: TAU (treatment as usual) with Outpatient - 1h/week, rotating schedule of 12 topics: facts about cocaine, HIV education, stress management etc. CM:Prizes with Outpatient - Draw earned for each group therapy session attended, and for cocaine negative samples. Prize bowl contained 500 slips of paper, half slips nonwinning, 219 slips small prizes (e.g. \$1 coupon), 30 large prizes (e.g. walkmans, watches), 1 jumbo prize (TV) Group 2 N= 37 Control: TAU (treatment as usual) with Outpatient - 1h/week, rotating schedule of 12 topics: facts about cocaine, HIV education, stress management etc.	
PRESTON1999 Study Type: RCT (randomised controlled trial) Blindness: No mention Duration (days): Mean 84 Setting: US Info on Screening Process: 60 gave informed consent, 1 did not return after giving consent, 1	n= 57 Age: Mean 33 Sex: 36 males 21 females Diagnosis: 100% Opiate dependence by DSM-III-R Exclusions: - <18 >65years of age - current major psychiatric disorder	Data Used Retention: days remained in treatment Abstinence: negative urinalysis	Group 1 N= 19 Naltrexone maintenance with Outpatient - Received naltrexone 3 days a week under staff observation. Doses were 100mg on Monday and Wednesday and 150mg on Friday	all received weekly 'interpersonal/cognitive/beha vioural' counselling for cocaine misuse Study quality: 1+

experienced withdrawal symptoms after naloxone challenge PRESTON2000	- severe current medical illness - pregnant or lactating - in an institutional residence (e.g. jail) - know allergy to naltrexone or naloxone Notes: within the past 60 days but not currently dependent on opiates Baseline: GROUPS: CM / NCM / No Voucher Self reported years of drug use: Heroin 7.5 5.3 7.8 Self reported years of drug use: Cocaine 2.6 4.0 5.1 % Marijuana dependence (DSM-III-R) 26 0 0 % Cocaine dependence (DSM-III-R) 47 32 50 % Alcohol dependence (DSM-III-R) 37 21 60	Notes: DROPOUTS: contingent group = 50% non-contingent group = 80% no voucher group = 95%	Received naltrexone 3 days a week under staff observation. Doses were 100mg on Monday and Wednesday and 150mg on Friday CM: vouchers with Outpatient - value of vouchers began at \$2.50 for dose of naltrexone, increased in value by \$1.50 for each consecutive dose, \$10 bonus for 3 consecutive doses, if did not receive dose did not get voucher and next voucher reset to \$2.50. Maximum of \$1155. Group 3 N=19	
Study Type: RCT (randomised controlled trial) Study Description: Blindness for methadone dosing Type of Analysis: ITT Blindness: Double blind Duration (days): Mean 56 Setting: USA Notes: RANDOMISATION: First 10 participants manually assigned to CM group to allow NCM yoking. Remaining participants randomised using random number table. Info on Screening Process: 285 enrolled, 253 completed baseline; 219 met criteria for opiate use, 120 randomised (exclusion reasons not given)	n= 120 Age: Mean 38 Sex: 81 males 39 females Diagnosis: 100% Opiate dependence by Eligible for/receiving MMT Exclusions: - Age outside 18-65 range - Not qualified for MMT under FDA guidelines - No history of IV drug use - Current major psychiatric or unstable serious medical illness - Alcohol or BDZ dependence - <3 opiate positive urine samples out of 15 during 5-week baseline period Notes: PRIMARY DIAGNOSIS: Opiates ETHNICITY: 42% African American, 58% White REFERRALS: Admission to MMT Baseline: (GROUP: MMT+NCM / MMT+CM / MMT-Hi+NCM / MMT-Hi+CM) Employed: 44% / 38% / 55% / 33% Years of heroin use: 13.3 / 12.6 / 13.3 / 11.8 Days heroin use in past 30: 25.9 / 28.8 / 26.4 / 26.9	Data Used Urinalysis: positive for benzodiazepenes Urinalysis: positive for opiates Abstinence: longest consecutive period Retention: weeks remained in treatment Urinalysis: positive for cocaine Urinalysis: positive for cannabis Data Not Used Urinalysis: positive for alcohol Notes: FOLLOWUP: Baseline, endpoint DROPOUTS: 4% / 7% / 13% / 3%	Group 1 N= 32 CM: vouchers with Outpatient - Vouchers contigent on opiate-negative urine specimens from 3 times weekly urine test Vouchers exchangeable for goods and services (requested via and purchased by staff) that would support a drug-free lifestyle Opiate agonist maintenance with Outpatient. Mean dose 70mg - High dose 60mg on days 1-3, 70mg from day 4 Group 2 N= 31 Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 70mg - High dose 60mg on days 1-3, 70mg from day 4 NCM (noncontingent management) with Outpatient - Received vouchers indpendent of urine samples, randomly linked a participant in CM group. Group 3 N= 28 Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 50% - Standard dose NCM (noncontingent management) with Outpatient - Received vouchers indpendent of urine samples, randomly linked a participant in CM group.	

D AWC ON 2004			Group 4 N= 29 CM: vouchers with Outpatient - Vouchers contigent on opiate-negative urine specimens from 3 times weekly urine test Vouchers exchangeable for goods and services (requested via and purchased by staff) that would support a drug-free lifestyle Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 50mg - Standard dose	
RAWSON2001				Otrodo accelito
Study Type: RCT (randomised controlled trial) Study Description: Ranomisation code generated independently offsite Type of Analysis: Per protocol Blindness: Open Duration (days): Mean 365 Setting: 2 outpatient clinics, LA, USA Notes: RANDOMISATION: Sealed envelopes Info on Screening Process: 183 successfully detoxified > 81 induced onto naltrexone and andomised	n= 81 Age: Mean 33 Sex: 49 males 32 females Diagnosis: 100% Opiate dependence by DSM-IV Exclusions: - Did not complete opiate detoxification - Liver enzyme values 5x above normal - If female: pregnant, lactating or not using effective method of birth control Notes: ETHNICITY: Caucasian 79%, Hispanic 10%, African American 3.7%, Other 7% Baseline: (GROUPS: Enhanced / Standard) Years opioid use: 9.4 / 10.1 Days opioid use in past 30 days: 21.5 / 23.4 IV opioid use: 52.5% / 58.5% Previous treatment: 80% / 75.6% Previous methadone treatment: 55% / 58.5%	ASI (Addiction Severity Index) Urinalysis: TES (Treatment Effectiveness Score) Abstinence: no use for 3 consecutive weeks a end Urinalysis: positive for opiates Retention: weeks remained in treatment Compliance: naltrexone doses taken Retention: sessions attended	Group 1 N= 41 Control: standard care with Outpatient - Weekly data/urine collection; study physician every 30 days to collect naltrexone, with additional appointments allowed for discussing side effects or other medication issues. Provision of booklet which provided info about local drug treatment resources Group 2 N= 40 CBT: Matrix model with Outpatient - CBT approach with specific behav. techniques, educational materials and encourages 12 Step involvement. 60min individual session + 2x90min group sessions + 60min cue exposure session wks 1-12; individual session semi weekly and group sessions wks 13-26.	Study quality: 1++
RAWSON2002				
Study Type: RCT (randomised controlled trial) Type of Analysis: No evidence of ITT Blindness: Open Duration (days): Mean 102 Followup: 36 weeks Setting: 2 methadone clinics in USA Info on Screening Process: 180 volunteered > 120 eligible, enrolled and randomised	n= 120 Age: Mean 44 Sex: 66 males 54 females Diagnosis: 100% Opiate dependence by Eligible for/receiving MMT 100% Cocaine misuse by DSM-IV Exclusions: - Not in MMT for >=90 days - No evidence of cocaine use in past month - Alcohol or BDZ dependence requiring medical withdrawal - Court mandated treatment Notes: ETHNICITY: White 39%, African American 32%, Hispanic 26%, other 3% Baseline: (GROUPS: CBT / CM / CBT+CM / Control) ASI Drug: 0.37 / 0.31 / 0.33 / 0.36 Methadone dosage (mg): 82 / 78 / 83 / 82	ASI: drug use Urinalysis: positive for opiates Retention: weeks remained in treatment Urinalysis: positive for cocaine Abstinence: no use for 3 consecutive weeks a end	Group 1 N= 30 CM (contingency management) - As per CM group Opiate agonist: MMT (methadone maintenance) - As per MMT group CBT: group - As per CBT group Group 2 N= 30 CM (contingency management) with Outpatient - 3 urine samples/week. Voucher value starting at \$2.50 for a -ve sample, increasing by \$1.25 per successive -ve sample (up to \$20 max). \$10 bonus for 3 consecutive -ve samples. +ve or missing sample reset schedule to \$2.50 Opiate agonist: MMT (methadone maintenance) with Outpatient - As per MMT group Group 3 N= 30 Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 82mg - Standard MMT: daily clinic visits for methadone, twice-monthly counselling, medical care and case management as needed. 3 urine samples/week	Study quality: 1+

Group 4 N= 30 Opiate agonist: MMT (methadone maintenance) - As per std MMT group CBT: group - 3 x 90min group sessions (4) 8 people)/wk for 16wks, guided by Rawson CBT manual. Each worksheet/exercise explained or illustrated an aspect of CBT. Group 5 N= SCHOTTENFELD2005 n= 162 Group 1 N= 40 Study Type: RCT (randomised controlled trial) Data Used Study quality: 1+ Abstinence: longest consecutive period Age: Mean 36 IDC (individual drug counselling) with Study Description: Medications were double-Abstinence: % with negative urine sample per Outpatient - Manualised individual blind/double-dummy. CM was not Sex: 107 males 55 females sessions with CRA approach (behavioura Researchers and subjects aware of allocation skills, engaging in non-drug activities): at time of randomisation Diagnosis: Notes: Three times weekly urine testing twice weekly weeks 1-12, weekly weeks 100% Opiate dependence by DSM-IV Blindness: Double blind 13-24 Opiate agonist: MMT (methadone Duration (days): Mean 168 100% Cocaine misuse by DSM-IV maintenance) with Outpatient - 35mg increased to 65mg over weeks 1-2, Setting: New Haven, USA Exclusions: - Less than 1 year history of DSM-IV opiate increased further to max 85mg over rest Notes: Computerised urn randomisation dependence and cocaine abuse/dependence - Current of study. Daily observed dispensing alcohol or sedative dependence Info on Screening Process: 169 referred - 6 CM: vouchers with Outpatient - Monetary - Significant medical condition excluded (primarily failed to attend admission voucher for each opiate&cocaine -ve Current psychotic/bipolar disorder/major session) > 163 randomised - 1 participant urine. Escalating schedule weeks 1-12 depression/suicidality received one dose of med but provided no (\$2.50 initial + \$1.25 per consec -ve - Pregnancy addition data; excluded from analysis sample; reset to \$2.50 for a +ve; \$10 bonus for 3 consec -ve samples). Weeks Notes: ETHNICITY: 21% white 13-24, fixed \$1 per -ve sample. Max total Baseline: (MMT+CM / MMT / Bupe+CM / Bupe) reward \$1033.50 Employed full-time: 40% / 45% / 41% / 41.9% Group 2 N= 40 IDU: 62.5% / 52.5% / 43.6% / 32.6% IDC (individual drug counselling) with Years heroin use: 94/96/97/83 Outpatient - Manualised individual Years cocaine use: 8.0 / 10.1 / 11.2 / 9.4 Days cocaine use (past 30 days): 7.6 / 11.6 / 14.5 / 10.7 sessions with CRA approach (behavioura skills, engaging in non-drug activities): twice weekly weeks 1-12, weekly weeks 13-24 Opiate agonist maintenance - 35mg increased to 65mg over weeks 1-2. increased further to max 85mg over rest of study. Daily observed dispensing Control: TAU (treatment as usual) with Outpatient - Received piece of paper at each urine test as to whether sample was +ve or -ve

Group 3 N= 39 IDC (individual drug counselling) with Outpatient - Manualised individual sessions with CRA approach (behavioura skills, engaging in non-drug activities): twice weekly weeks 1-12, weekly weeks Opiate agonist: buprenorphine maintenance - 4mg sublingual buprenorphine, increased to 12mg by end of week 2. Up to max 16mg for remaining of study CM: vouchers - Monetary voucher for each opiate&cocaine -ve urine. Escalating schedule weeks 1-12 (\$2.50) initial + \$1.25 per consec -ve sample; reset to \$2.50 for a +ve; \$10 bonus for 3 consec -ve samples). Weeks 13-24, fixed \$1 per -ve sample. Max total reward \$1033.50 Group 4 N= 43 IDC (individual drug counselling) with Outpatient - Manualised individual sessions with CRA approach (behavioura skills, engaging in non-drug activities): twice weekly weeks 1-12, weekly weeks 13-24. Daily observed dispensing. Opiate agonist: buprenorphine maintenance with Outpatient - 4mg sublingual buprenorphine, increased to 12mg by end of week 2. Up to max 16mg for remaining of study. Daily observed dispensing. Control: TAU (treatment as usual) -Received piece of paper at each urine test as to whether sample was +ve or -ve SILVERMAN1998 Study Type: RCT (randomised controlled trial) Study quality: 1+ n = 59**Data Used** Group 1 N= 19 Abstinence: % with negative urine sample per Age: Mean 38 Opiate agonist: MMT (methadone Type of Analysis: Per protocol maintenance) with Outpatient. Mean dose Sex: 39 males 20 females Abstinence: longest consecutive period Up to 80mg - Daily methadone and 45min Blindness: No mention per week individual counselling and Diagnosis: Retention: weeks remained in treatment Duration (days): Mean 84 medication monitoring 100% Opiate dependence by Eligible Cocaine craving: VAS (visual analogue scale) Followup: 12 months for/receiving MMT NCM (noncontingent management) with Notes: FOLLOWUP: Baseline, endpoint (12 Outpatient - Vouchers yoked to Setting: USA months) reinforcement schedule of another 100% Cocaine misuse by Urinalysis DROPOUTS: ? Notes: RANDOMISATION: Incomplete due to participant in CM group (only available yoking for CM conditions when participant attended clinic) Exclusions: - Age outside 18-65 range Info on Screening Process: 94 enrolled in MMT, Group 2 N= 20 - Not qualified for MMT under FDA guidelines 90 completed baseline assessment; CM: vouchers with Outpatient - Identical - No history of IV opiate use 59 eligible (used cocaine) and randomised to CM condition except \$1.50 is rewarded - Current major psychiatric or unstable serious medical for each successive negative sample. Additionally, \$50 bonus for each of the - Alcohol or BDZ dependence first 6 negative samples provided, and - <3 cocaine positive urine samples out of 15 during 5-week</p> each time 2 consecutive negative baseline period samples provided Notes: PRIMARY DIAGNOSIS: MMT patients who have Opiate agonist: MMT (methadone misused cocaine in past 5 weeks maintenance) with Outpatient. Mean dose ETHNICITY: black 63%, white 37% Up to 80mg - Daily methadone and 45min REFERRALS: MMT admissions per week individual counselling and Baseline: (GROUPS: CM with bonus / CM / NCM) medication monitoring Employed: 15% / 20% / 5% Drug use (past 30 days): Heroin 95% / 100% / 95%,

	Cocaine 100% / 100% / 95%, Alcohol 50% / 65% / 68%	T	Group 3 N= 20	П
	Alcohol dependence: 20% / 20% / 21% Cocaine dependence: 65% / 45% / 42%		CM: vouchers with Outpatient. Mean dose Max \$1950 - Schedule of escalating reinforcement for each successive cocaine negative urine sample (\$2.50 initial, +\$2.96 per sample up to 6). Vouchers exchangeable for goods/services considered consistent with the participant's goals Total value of vouchers: \$1950 Opiate agonist: MMT (methadone maintenance) - Daily methadone and 45min per week individual counselling and medication monitoring	
SILVERMAN2004				
Study Type: RCT (randomised controlled trial) Type of Analysis: ITT and Completers Blindness: No mention Duration (days): Mean 365 Followup: 9 weeks Setting: US Notes: RANDOMISATION: computer program	Age: Mean 39 Sex: 43 males 35 females Diagnosis: 100% Opiate dependence by DSM-III-R 81% Cocaine dependence by DSM-III-R Exclusions: - <18 > 50 years of age - opioid negative sample at intake - did not report regular use in 30 days before intake and for 6 months before intake - <1 year of regular MMT - participated in a CM study before - did not have objective signs of IDU - pregnant - medical condition which contraindicated MMT - serious psychiatric condition (e.g. schizophrenia) Baseline: GROUPS: CM:take home+voucher/CM:take home/TAU Days used heroin in last 30 days: 28(5.7)/29 (2.3) /29 (3.5 Days used cocaine in last 30 days:15(11.6)/14(12.3)/11(11.3)	Data Used Abstinence at 6 months Retention: weeks remained in treatment Abstinence: weeks drug-free Notes: DROPOUTS: CM take home + vouchers =7/26 CM take home =10/26 TAU=12/26	Group 1 N= 26 CM: methadone with Outpatient - After 3 consecutive negative urine samples a take home dose for following day was given, after that take home dose given for each consecutive urine sample. If positive urine provided, required 3 consecutive negative urines for next take home dose Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 60mg - 10 weeks stabilisation period before main intervention: starting dose of 20mg increased to 60mg per day. If participant provided opiate positive urine sample during weeks 3,4,5 of baseline period dose increased to 100mg. Group 2 N= 26 CM: vouchers with Outpatient - \$2.50 for first cocaine negative urine, increase of \$1.50 for each consecutive cocaine negative urine up to maximum of \$40 for each negative urine, \$10 bonus for 3 consecutive negative urines. Cocaine positive sample led to voucher reset to \$2.50. CM: methadone with Outpatient - After 3 consecutive negative urine samples a take home dose for following day was given, after that take home dose given for each consecutive urine sample. If positive urine provided, required 3 consecutive negative urines for next take home dose. Opiate agonist: MMT (methadone maintenance) with Outpatient. Mean dose 60mg - 10 weeks stabilisation period before main intervention: starting dose of 20mg increased to 60mg per day. If participant provided opiate positive urine sample during weeks 3,4,5 of baseline period dose increased to 100mg.	

	1			Tr.
			Group 3 N= 26	
			Control: TAU (treatment as usual) with Outpatient - Standard services including weekly individual and group counselling.	
			Opiate agonist: MMT (methadone maintenance) with Outpatient - 10 weeks stabilisation period before main intervention: starting dose of 20mg increased to 60mg per day. If participant provided opiate positive urine sample during weeks 3,4,5 of baseline period dose increased to 100mg.	
STITZER1992				
Study Type: RCT (randomised controlled trial)	n= 53	Data Used	Group 1 N= 26	Study quality: 1+
Class Type: No. (tanaethies continues analy	Age: Mean 34	Response: abstinent >=4 weeks	CM: methadone with Outpatient - Could	otacy quality: 11
Blindness: Open	Sex: 38 males 15 females	Retention: weeks remained in treatment	earn a maximum of 3 take home doses per week. First take home methadone	
Duration (days): Mean 180	Diagnosis:	Abstinence: negative urinalysis Notes: DROPOUTS: CM = 10/26, NCM = 7/27	after 6 consecutive drug free urines,	
Setting: US	100% Opiate dependence by Eligible for/receiving MMT		additional take home day authorized after 2 weeks drug free, then a further take	
Info on Screening Process: 1 dropped out	Total Cocky and The Cocky and		home day authorized after 2 more weeks	
before randomization	Exclusions: - no evidence of intravenous drug use - did not provide 3 consecutive opiate positive urines		drug free Opiate agonist: MMT (methadone	
	- did not provide a consecutive opiate positive drines		maintenance) with Outpatient. Mean dose	
	Baseline: Participants had an average of 15 years of opiate use		51.4mg Group 2 N= 27	
	Mean methadone dose: 51.4mg/day		Opiate agonist: MMT (methadone	
			maintenance) with Outpatient. Mean dose 51.4mg	
			NCM (noncontingent management) with	
			Outpatient - randomly assigned to receive 0, 1, 2 or 3 take home doses per week for	
			the month delivered independent of test	
			results	
TUCKER2004B				
Study Type: RCT (randomised controlled trial)	n= 97	Data Used	Group 1 N= 45	Study quality: 1+
Blindness: Single blind	Age: Mean 30	Dug use: days	Control: enhanced TAU with Outpatient -	
Duration (days): Mean 84	Sex: 62 males 35 females		Case management and option of participating in voluntary psychosocial	
Followup: 3 months	Diagnosis:		interventions e.g. individual counselling, self help groups	
Setting: Australia	100% Opiate dependence by DSM-IV		Group 2 N= 52	
Notes: RANDOMISATION: computer	Exclusions: - <18 years		Naltrexone maintenance with Outpatient.	
randomized at a central site outside of	- < 5 days abstinence from opioids - severe medical or psychiatric illness		Mean dose 50mg - Initial dose of 25mg, daily dose of 50mg under supervision	
treatment centre	- dependence on another substance (other than tobacco,		week1, then given enough nalterxone to	
Info on Screening Process: 316 screened, 44 excluded, 147 did not return for study	cannabis, and prescribed BZDs) - pregnant or breastfeeding		self administer on a weekly basis CBT: group RP (relapse prevention) with	
·	- 3-fold elevation of serum transaminases		Outpatient - based on 4 modules (3	
	- likely incarceration or surgery in next 3 months - currently receiving naltrexone from another source		sessions each): 1) Preventing relapse 2) Emotions 3) Relationships 4) Naltrexone	
	, ,		and Global Lifestyle change. Participants	
	Baseline: GROUPS: Naltrexone + CBT / Naltrexone + Control		could begin at any of the sessions and rotated through all 12 to successfully	
	Heroin days (0-28): 13.46(5.8) / 13.62(5.74)		complete program	
	Poly drug use (0-9): 4.87(1.01) / 5.40(1.44)			
UKCBTMM2004				
	-			

Study Type: RCT (randomised controlled trial)	n= 60	Data Used	Group 1 N= 29	Study quality: 1++
Study Description: Not true ITT - 6 month and 12 month analysis only included those available to followup Type of Analysis: ITT Blindness: Single blind Duration (days): Mean 365 Setting: 10 community clinics offering MMT in England Notes: RANDOMISATION: Concealed (remote randomisation service). Stratified by SDS severity, DTTO status and treatment centre Info on Screening Process: 842 screened, 369 eligible. Main reasons for exclusion: too low/unstable methadone dose, not engaged in treatment and unstable housing; 309 not enrolled. Main reasons: unabelto approach, not interested, lack of time; 60 randomised	Age: Mean 32 Sex: 45 males 15 females Diagnosis: 100% Opiate dependence by ICD-10 Exclusions: - Age outside 18-70 range - Current severe mental or physical illness Not on stable dose MMT >=30mg - No MMT or opiate detoxification in past 3 months - Did not attend >=3 of past 6 MMT keyworker sessions - Pending imprisonment - Severe brain damage or mental impairment - Unstable residence Notes: PRIMARY DIAGNOSIS: Opiates ETHNICITY: White 93%, Bangladeshi 2%, black 3%, other 2% REFERRALS: Baseline: (GROUPS: MMT / MMT+CBT) E-ASI Overall: 0.27 / 0.31 Days heroin use in past 30 days: 9.0 / 14.6 £ spent on heroin in past 6 mths: 2052 / 2367 Polydrug use in past 30 days: 7.4 / 8.1 IDU in past 30 days: 7.2 / 8.6 £ spent on drugs in past 30 days: 154.84 / 350.17	E-ASI (European Addiction Severity Index) Notes: FOLLOWUP: Baseline, 6 months, 12 months DROPOUTS: 7% MMT+CBT and 16% MMT unavailable to followup at 6 months	CBT (cognitive behavioural therapy) with Outpatient. Mean dose Max 24 sessions 40min individual weekly sessions over 6 months Consisted of core (identifying negative thoughts that maintain drug use, high-risk situations and coping strategies) and elective (addressing other problems such as depression, anxiety, criminality) sessions Opiate agonist: MMT (methadone maintenance) with Outpatient - Fortnightly (at a minimum) 30 minute manual guided sessions with keyworker Focused on identifying specific needs and giving advice in areas of health, housing, relationships, legal problems, with individualised care plan Prescription of oral methadone Group 2 N= 31 Opiate agonist: MMT (methadone maintenance) with Outpatient - Fortnightly (at a minimum) 30 minute manual guided sessions with keyworker Focused on identifying specific needs and giving advice in areas of health, housing, relationships, legal problems, with individualised care plan Prescription of oral methadone	
WOODY1983 Study Type: RCT (randomised controlled trial) Type of Analysis: Per protocol Blindness: Open Duration (days): Mean 168 Followup: 7 and 12 months Setting: US Notes: RANDOMISATION: not reported	n= 110 Age: Mean 33 Range 18-55 Sex: all males Diagnosis: 100% Opiate dependence by Eligible for/receiving MMT Exclusions: psychosis - persistent or clinically significant organic brain syndrome - <2 weeks >6 months MMT during current treatment episode Baseline: GROUPS: SE / CBT / DC Years of regular heroin use: 7 / 10 / 11 Years of regular stimulant use: 2 / 1 / 1	Data Used ASI: drug use	Group 1 N= 39 Control: TAU (treatment as usual) with Outpatient - Major focus on providing external services and not dealing with psychological processes. Group 2 N= 39 CBT: CT (cognitive therapy) with Outpatient - Focused on changing participants beliefs, and feelings of helplessness or worthlessness. Group 3 N= 32 SE (supportive-expressive psychotherapy) with Outpatient - Analytically oriented focal psychotherapy. Aimed to help participant identify and work through problematic relationship themes. Special attention was paid to the meanings that the patient attaches to the drug dependence.	Study quality: 1+
WOODY1995 Study Type: RCT (randomised controlled trial) Blindness: Duration (days): Mean 180 Followup: 6months Setting: US Info on Screening Process: 350 screened, 178 excluded; 172 more formal screening, 23	n= 84 Age: Mean 41 Sex: 89 males 34 females Diagnosis: Drug misuse (non-alcohol) Exclusions: - severe medical or psychiatric disorders - pending incarceration or move from area - BDI <40	Data Used ASI: drug use Abstinence: % with negative urine sample perday	Group 1 N= 57 SE (supportive-expressive psychotherapy) with Outpatient - Analytically oriented focal psychotherapy adapted to drug dependent people. Supportive techniques aim to help participants feel comfortable in discussing personal problems. Expressive techniques aim to help identify core relationship pattern and themes.	Study quality: 1+

excluded: third stage of screening 149, 26
excluded

- SCL-90 <40
- ASI:Psychiatry <5

Baseline: GROUPS:
mean years opiate use:
longest period in months of abstinence:13 (22)/6(9)

- SCL-90 <40
- ASI:Psychiatry <5
- ASI:Psychi

Characteristics of Excluded Studies

Reference ID Reason for Exclusion

ABBOTT1998 CRA and CRA+RP combined no break down of results for both groups

BROONER1998A No relevant outcomes

BROONER2004 poor quality

CALLAHAN1976 No extractable data
CALLAHAN1980 No extractable data
CALSYN1994 No extractable outcomes
CARROLL2004 Data not extractable
CHUTUAPE1999B n <10 for control group

COVI1995 No control condition for counselling group

DEES1997 no useful outcome data

DOWNEY2000 first 4 participants not randomly assigned; no extractable outcomes

FARABEE2002 No extractable outcomes **GOLDSTEIN2002** No drug use outcomes

HAVASSY1979 pre-1980

HOUSTON1983 intervention does not meet inclusion criteria

IGUCHI1988 n<10 per arm

IGUCHI1996 does not compare CM with a different intervention/control; urine data

not extractable

IGUCHI1997 required outcomes not extractable

JONES2001A Pregnant women; no extractable data

KIDORF1995 not an intervention

MILBY1978 pre-1980

MONTOYA2005 No psychotherapy comparator

RAWSON1984 No extractable data
RHODES2003 not required outcomes
ROSENBLUM1999 poor methodological rigor
ROUNSAVILLE1983A No extractable data
SCHERBAUM2005 no required outcomes

SCHMITZ2001A No extractable data

SCHOTTENFELD2000 not RCT

SIMPSON1997 no extractable data

STEIN2005 Antidepression with psychological vs minimal control: primary focus is

depression

STITZER1980 n< 10 per arm

STITZER1983 n <10

References of Included Studies

AVANTS1999 (Published Data Only)

Avants, S. K., Margolin, A., Kosten, T. R., Rounsaville, B. J., & Schottenfeld, R. S. (1998). When is less treatment better? The role of social anxiety in matching methadone patients to psychosocial treatments. Journal of Consulting & Clinical Psychology., 66, 924-931.

*Avants, S. K., Margolin, A., Sindelar, J. L., Rounsaville, B. J., Schottenfeld, R., Stine, S. et al. (1999). Day treatment versus enhanced standard methadone services for opioid-dependent patients: a comparison of clinical efficacy and cost. American Journal of Psychiatry., 156, 27-33.

CARROLL2001B (Published Data Only)

*Carroll, K. M., Sinha, R., Nich, C., Babuscio, T., & Rounsaville, B. J. (2002). Contingency management to enhance naltrexone treatment of opioid dependence: a randomized clinical trial of reinforcement magnitude. Experimental & Clinical Psychopharmacology., 10, 54-63.

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