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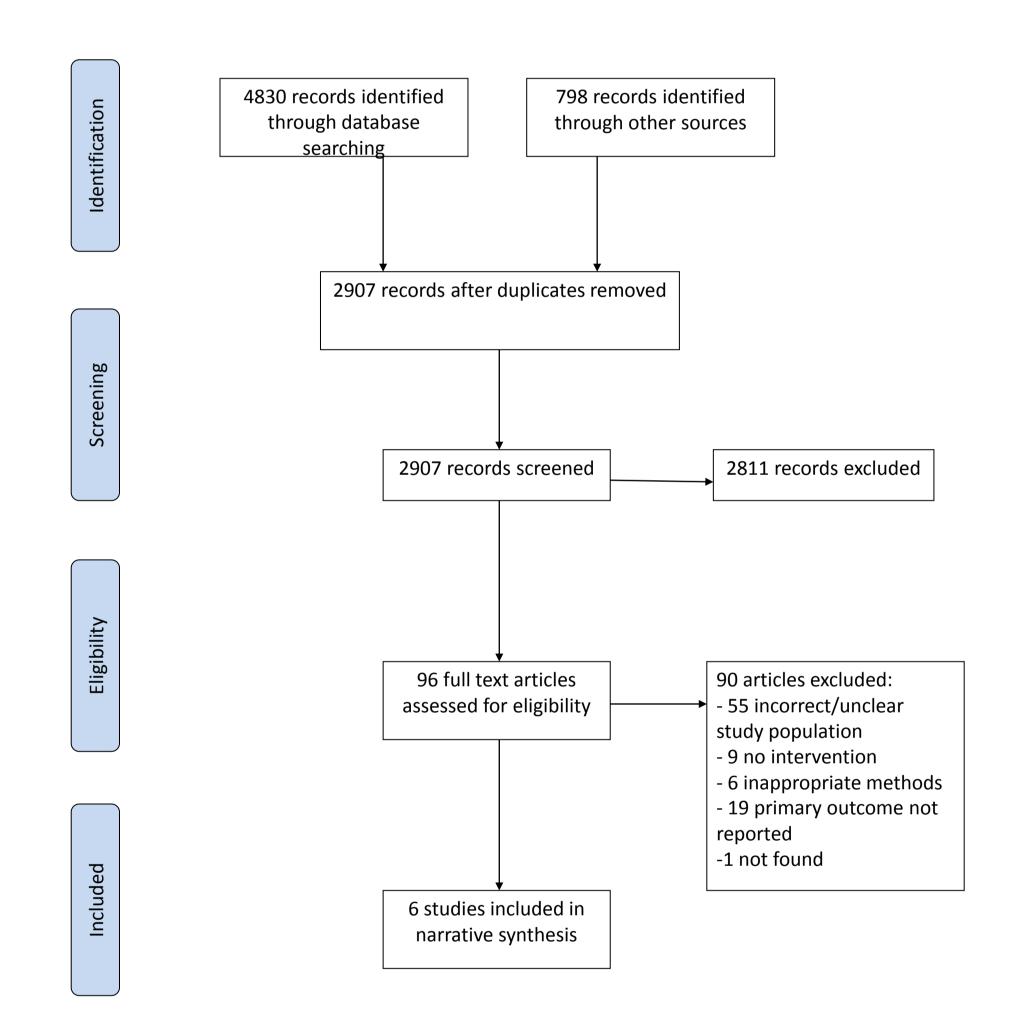
A systematic review of interventions to reduce illicit drug use in female drug-dependent street sex workers

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METHODS

Medline on Ovid 1. prostitution 2. prostitut*.tw 3. sex adj1 work*.tw 4. substance-related disorders 5. amphetamine-related disorders 6. cocaine-related disorders 7. crack cocaine 8. heroin dependence 9. morphine dependence 10. opioid-related disorders 11. street drugs 12. substance abuse, intravenous 13. 1 or 2 or 3 14. 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 15. 13 and 14

Prisma flowchart



RESULTS

Included studies and risk of bias

First	Country	Setting	Participants	Participant	Study design	Follow up	Risks of bias
author				age			
(Year)							
Surrat	USA	Community	806	36.8yrs	RCT	3 & 6 months	- no detail of randomisation or allocation process
(2010)			410	(mean)			- no blinding participants or personnel
			intervention	(SD 8.2)			- self-reported non-blinded outcome measures
			396 control				- unclear whether analysis decisions were prospective eg
							dichotomisation of outcome results
							- follow up rates calculated by combining attendance at either of
							follow up appointments which increased follow up rates
							- intention to treat analysis not undertaken
Litchfield	UK	Community	34	Not stated	Before/after	12 months	- all participants received intervention and no control group
(2010)					Clinical records		- self-reported non-blinded outcome measures
							- missing data not accounted for
Sherman	USA	Community	54	39yrs	Before/after	3 months	- all participants received intervention and no control group
(2006)				(median)	survey		- self-reported and non-blinded outcome measures
				(IQR 34-45)			- missing data not accounted for
Yahne	USA	Community	27	37.8yrs	Before/after	4 months	- all participants received intervention and no control group
(2002)				(mean)	survey		- self-reported and non-blinded outcome measures
				(SD 8.1)			- follow up in settings likely to influence outcomes and act as
							confounder
Bellis	USA	Outpatient	41	31.8yrs	Before/after	12 months	- all participants received intervention and no control group
(1993)				(mean)			- self-reported non-blinded outcome measures
							- no data on participants lost to follow up
Gunne	Sweden	In-patient	34	28.1years	Before/after	1 – 220	- all participants received intervention and no control group
(1986)				(mean)	Clinical records	months	- self-reported non-blinded outcome measures
				(SD 5.8)			

Interventions

Manuscript	Intervention focus	Intervention type	Novel aspect of intervention	Additional available elements
Surrat (2010)	HIV risk reduction	Educational	Sex worker focussed	- hygiene risk reduction kit
		(2X60min sessions 2 weeks apart)	-content:	- blood-borne virus testing
		- sexual risk	- violence	- facilitated access to health and social
		- drug use risk	- HIV myths	services in the community
			- oral sex risks	
			- delivery:	
			- language	
			- peer delivery	
Litchfield	Sex work reduction	Substitute prescribing - outpatient	SSW-specific service	On site access to
(2010)				- general & sexual healthcare
				- key working
				- psychosocial interventions
Sherman (2006)	HIV risk reduction	Educational	Combined with teaching jewellery-	- opportunity to sell jewellery and make
		(6X2hr sessions over 3 weeks)	making and marketing skills to generate	money
		- sexual risk	alternative source of income	- focussed discussion on local job training
		- drug use risk		
Yahne (2002)	HIV risk reduction	Psychological (30min M.I.	Motivational interviewing	- facilitated access to health and social
		interview)		services in the community
Bellis (1993)	HIV risk reduction	Substitute prescribing- outpatient	Free service in private-based system	On-site access to:
				- general & sexual healthcare
				- psychiatric services
				- individual and group counselling
				- education session on sexual and drug
				HIV risk reduction
				- key working
Gunne (1986)	HIV risk reduction	Substitute prescribing - inpatient	Methadone maintenance to support	None listed
			cessation of illicit drug use rather than	
			just stopping	

Intervention effects

PRESCRIBING-BASED INTERVENTIONS							
	Litchfield (2010)	Bellis (1993)	Gunne (1986)				
Number of participants	34	25	34				
Study design	before/after	before/after	before/after				
Intervention type	Substitute prescribing	Substitute prescribing	Substitute prescribing				
Levels of illicit drug use	% urines testing positive for non-prescribed drugs	% urines testing positive for non-prescribed drugs	women with urine samples consistently testing negative for non-prescribed drugs				
	at baseline: 87% (95% CI 75.7% to 98.3%)	at baseline: 80% (95% CI 64.32% to 95.68%)	at baseline: 0% (95% CI 0% to 0%)				
	at 12 months: 72% (95% CI 56.91% to 87.09%)	at 12 months: 51% (95% CI 31.4% to 70.6%)	up to 220 months: 71% (55.75% to 86.25%)				
Involvement in sex working	Women reporting sex working		Women not involved in sex work				
	at baseline: 100% (95% CI 100% to 100%)	Not reported	at baseline: 0% (95% CI 0% to 0%)				
	at 12 months: 33% (17.19% to 48.81%)		up to 220 months: 71% (55.75% to 86.25%)				
Levels of income from sex work		% income from sex work					
		at baseline: 78%(95% CI 61.76% to 94.24%)					
		at 12 months: 20% (95% CI 4.32% to 35.68%)					
Levels of homelessness	Not reported	Not reported	Not reported				
		NON PRESCRIBING-BASED INTERVENTIONS					
	Surrat (2010)	Sherman (2006)	Yahne (2002)				
Number of participants	806	50	27				
Study design	RCT	before/after	before/after				
Intervention type	Educational	Educational	Psychological (MI)				
Levels of illicit drug use	3 months: OR 1.17 (0.84-1.66)	% women reporting daily drug use:	Reported days abstinent in last 30days				
	6 months: OR 1.14 (0.8-1.61)	at baseline: 76% (95% CI 64.16% to 87.84%)	at baseline: 15% (95% CI 1.53% to 28.47%)				
		at 3 months: 55% (95% CI 41.21% to 68.79%)	at 4 months: 51% (95% CI 32.14% to 69.86%)				
P value(where given)		0.003	<0.001				
Involvement in sex working	3 months: OR 0.944 (0.67-1.32)	Median clients/month	% days sex worked in last 30days				
	6 months: OR 1.14 (0.79-1.65)	at baseline: 9	at baseline: 59% (95% CI 40.45% to 77.55%)				
		at 3 months 3	at 4 months: 17% (95% CI 2.83% to 31.17%)				
P value(where given)		0.025	<0.0001				
Levels of homelessness	Women reporting homelessness at study entry						
	usual care:42.9%	27% reported homelessness in 3 months prior to	Not reported				
	intervention group: 41%	study					

CONCLUSIONS

There is currently no strong evidence for effectiveness of interventions to reduce illicit drug use in female SSWs with problematic drug use. Thus, the development and robust evaluation of effective interventions should be a priority if recovery-orientated goals are to become more achievable for this group.

