

The effectiveness psychosocial interventions at reducing the frequency of alcohol and drug use in parents

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From Newcastle. For the world.



## Background

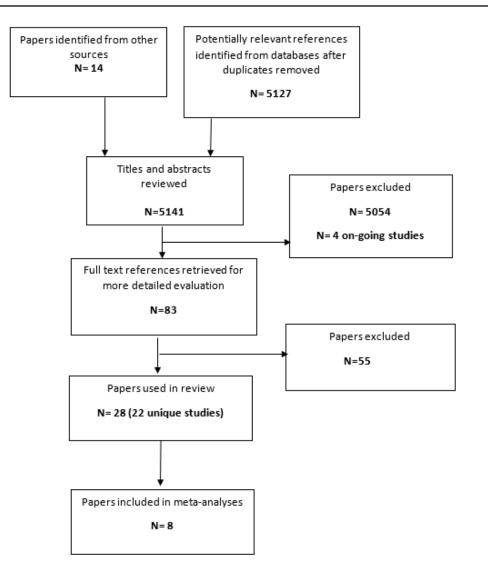
- Parental substance use is a substantial and prevent issue
- Impacts upon both the parent and the child
- Parental substance use is often identified as a risk factor in child welfare
- Little is known about the best way to intervene to reduce the parent's substance use

	Cochrane Database of Systematic Reviews
	iveness of psychosocial interventions for reducing parental Ince misuse (Review)
McGover	n R, Newham JJ, Addison MT, Hickman M, Kaner EFS
Effectivenes Cochrane Do	1. Newham J.J. Addison MT, Hickman M, Kaner EFS. ss of psychosocial interventions for reducing parental substance misuse. notobase of Systematic Reviews 2021, issue 3. Art. No.: C0012823. 2/14561585.C0012873 pub2.
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# Methods

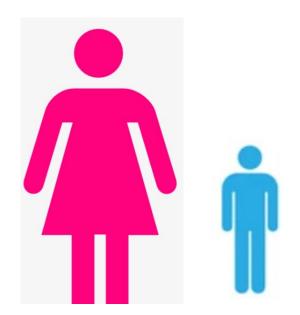
- Population substance using adult parents (≥18 years) or their child-2eh (0 years)
- Intervention Psychosocial interventions
- Comparison no intervention, delayed, attention control, alternative active treatment, treatment as usual
- Outcome Reduction in parental substance use (primary)
- Study design trials





## **Description of studies**











## Analysis 2.1 Comparison 2: Frequency of alcohol misuse, intervention type

## Intervention type

### Analysis 2.3 Comparison 2: Frequency of alcohol misuse, intervention type

### **Outcome 3: Integrated parenting interventions**

	Exp	eriment	al		Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.3.1 Short term follow up (	6m)								
Lam 2009 (Intervention 1)	14.9	20.7	25	29.8	22.6	13	16.5%	-0.68 [-1.37 , 0.01]	
Lam 2009 (Intervention 2)	15.7	22.4	25	29.8	22.6	13	16.7%	-0.61 [-1.30 , 0.07]	
Kelley 2002 (Intervention 2)	19.4	27.2	25	29.6	25.3	12	16.3%	-0.37 [-1.07 , 0.32]	
Subtotal (95% CI)			75			38	49.5%	-0.56 [-0.96 , -0.16]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	chi <sup>2</sup> = 0.42.	df = 2 (P	= 0.81); P	² = 0%					-
Test for overall effect: Z = 2.7	5 (P = 0.00	6)							
2.3.2 Long term follow up (1	12m)								
Kelley 2002 (Intervention 2)	29.1	25.6	25	42.1	32.1	12	16.2%	-0.46 [-1.15 , 0.24]	
Lam 2009 (Intervention 2)	21.4	19.4	25	29.8	18.6	13	17.1%	-0.43 [-1.11 , 0.25]	
Lam 2009 (Intervention 1)	22.2	20.2	25	29.8	18.6	13	17.2%	-0.38 [-1.05 , 0.30]	
Subtotal (95% CI)			75			38	50.5%	-0.42 [-0.820.03]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	chi <sup>2</sup> = 0.03.	df = 2 (P	= 0.99); P	<sup>2</sup> = 0%					-
Test for overall effect: Z = 2.0			,						

## **Outcome 1: Substance-focused interventions**

	Exp	erimenta	al		Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.1.1 Short term follow up (6	6m)								
Slesnick 2013	7.18	13.6	30	20.37	30.51	25	45.7%	-0.57 [-1.11 , -0.03]	
Kelley 2002 (Intervention 1)	28.6	26.2	22	29.6	25.3	12	27.2%	-0.04 [-0.74 , 0.67]	
Subtotal (95% CI)			52			37	72.9%	-0.35 [-0.86 , 0.16]	
Heterogeneity: Tau <sup>2</sup> = 0.04; C	hi² = 1.37, c	df = 1 (P	= 0.24); l <sup>a</sup>	= 27%					
Test for overall effect: Z = 1.3	5 (P = 0.18)	)							
2.1.2 Long term follow up (1	(2m)								
Kelley 2002 (Intervention 1)	39.6	22.4	22	42.1	32.1	12	27.1%	-0.09 [-0.80 , 0.61]	
Subtotal (95% CI) Heterogeneity: Not applicable Test for overall effect: Z = 0.20		)	22			12	27.1%	-0.09 [-0.80 , 0.61]	

#### Analysis 2.2 Comparison 2: Frequency of alcohol misuse, intervention type

#### **Outcome 2: Parenting-focused interventions**

2.2.1 Short term follow up (6m)         Stesnick 2016       9.63       19.56       114       16.42       26.51       51       31.6%       -0.31 [-0.64, 0.02]         Donohue 2014       1.9       4.3       24       4.5       20.1       31       12.2%       -0.17 [-0.70, 0.37]         Dakof 2010       1.1       5.56       29       1.04       4.09       24       11.9%       0.01 [-0.53, 0.55]         Subtotal (95% Cl)       167       106       55.7%       -0.21 [-0.46, 0.04]         Heterogeneity: Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 1.01, df = 2 (P = 0.60); l <sup>2</sup> = 0%       106       55.7%       -0.21 [-0.46, 0.04]         Stesnick 2016       9.7       20.62       110       18.23       31.31       51       31.2%       -0.35 [-0.68, -0.01]         Dakof 2010       1       2.92       29       0.55       1.4       29       13.1%       0.19 [-0.32, 0.71]         Subtotal (95% Cl)       139       80       44.3%       -0.11 [-0.64, 0.41]       -0.41		Exp	eriment	al		Control			Std. mean difference	Std. mean difference
Slesnick 2016       9.63       19.56       114       16.42       26.51       51       31.6% $-0.31$ [ $-0.64$ , $0.02$ ]         Donohue 2014       1.9       4.3       24       4.5       20.1       31       12.2% $-0.17$ [ $-0.70$ , $0.37$ ]         Dakof 2010       1.1       5.56       29       1.04       4.09       24       11.9%       0.01 [ $-0.53$ , $0.55$ ]         Subtotal (95% CI)       167       106       55.7% $-0.21$ [ $-0.46$ , $0.04$ ]         Heterogeneity:       Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 1.01, df = 2 (P = 0.60); I <sup>2</sup> = 0%       106       55.7% $-0.21$ [ $-0.46$ , $0.04$ ]         Z.2.2 Long term follow up (12m)       Stesnick 2016       9.7       20.62       110       18.23       31.31       51       31.2% $-0.35$ [ $-0.68$ , $-0.01$ ]         Dakof 2010       1       2.92       29       0.55       1.4       29       13.1% $0.19$ [ $-0.32$ , $0.71$ ]         Subtotal (95% CI)       139       80       44.3% $-0.11$ [ $-0.64$ , $0.41$ ]	Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Donohue 2014       1.9       4.3       24       4.5       20.1       31       12.2% $-0.17$ [ $-0.70$ , 0.37]         Dakof 2010       1.1       5.56       29       1.04       4.09       24       11.9%       0.01 [ $-0.53$ , 0.55]         Subtotal (95% CI)       167       106       55.7% $-0.21$ [ $-0.46$ , 0.04]         Heterogeneity: Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 1.01, df = 2 (P = 0.60); I <sup>2</sup> = 0%       106       55.7% $-0.21$ [ $-0.46$ , 0.04]         Z.2.2 Long term follow up (12m)       Stesnick 2016       9.7       20.62       110       18.23       31.31       51       31.2% $-0.35$ [ $-0.68$ , $-0.01$ ]         Dakof 2010       1       2.92       29       0.55       1.4       29       13.1%       0.19 [ $-0.32$ , 0.71]         Subtotal (95% CI)       139       80       44.3% $-0.11$ [ $-0.64$ , 0.41]	2.2.1 Short term follo	ow up (6m)								
Dakof 2010       1.1       5.56       29       1.04       4.09       24       11.9%       0.01 $-0.53$ 0.55         Subtotal (95% CI)       167       106       55.7% $-0.21$ $[-0.46, 0.04]$ Heterogeneity: Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 1.01, df = 2 (P = 0.60); l <sup>2</sup> = 0%       106       55.7% $-0.21$ $[-0.46, 0.04]$ Z.2.2 Long term follow up (12m)       200 <td>Slesnick 2016</td> <td>9.63</td> <td>19.56</td> <td>114</td> <td>16.42</td> <td>26.51</td> <td>51</td> <td>31.6%</td> <td>-0.31 [-0.64 , 0.02]</td> <td>_</td>	Slesnick 2016	9.63	19.56	114	16.42	26.51	51	31.6%	-0.31 [-0.64 , 0.02]	_
Subtotal (95% CI)         167         106         55.7%         -0.21 [-0.46, 0.04]           Heterogeneity: Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 1.01, df = 2 (P = 0.60); I <sup>2</sup> = 0%         Test for overall effect: Z = 1.64 (P = 0.10)         -0.21 [-0.46, 0.04]           2.2.2 Long term follow up (12m)         Slesnick 2016         9.7         20.62         110         18.23         31.31         51         31.2%         -0.35 [-0.68, -0.01]           Dakof 2010         1         2.92         29         0.55         1.4         29         13.1%         0.19 [-0.32, 0.71]           Subtotal (95% CI)         139         80         44.3%         -0.11 [-0.64, 0.41]	Donohue 2014	1.9	4.3	24	4.5	20.1	31	12.2%	-0.17 [-0.70 , 0.37]	
Heterogeneity: Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 1.01, df = 2 (P = 0.60); l <sup>2</sup> = 0% Test for overall effect: Z = 1.64 (P = 0.10) 2.2.2 Long term follow up (12m) Slesnick 2016 9.7 20.62 110 18.23 31.31 51 31.2% -0.35 [-0.68, -0.01] Dakof 2010 1 2.92 29 0.55 1.4 29 13.1% 0.19 [-0.32, 0.71] Subtotal (95% CI) 139 80 44.3% -0.11 [-0.64, 0.41]	Dakof 2010	1.1	5.56	29	1.04	4.09	24	11.9%	0.01 [-0.53 , 0.55]	
Test for overall effect: Z = 1.64 (P = 0.10)         2.2.2. Long term follow up (12m)         Silesnick 2016       9.7       20.62       110       18.23       31.31       51       31.2%       -0.35 [-0.68, -0.01]         Dakof 2010       1       2.92       29       0.55       1.4       29       13.1%       0.19 [-0.32, 0.71]         Subtotal (95% CI)       139       80       44.3%       -0.11 [-0.64, 0.41]	Subtotal (95% CI)			167			106	55.7%	-0.21 [-0.46 , 0.04]	
2.2.2 Long term follow up (12m)         Slesnick 2016       9.7       20.62       110       18.23       31.31       51       31.2%       -0.35 [-0.68, -0.01]         Dakof 2010       1       2.92       29       0.55       1.4       29       13.1%       0.19 [-0.32, 0.71]         Subtotal (95% CI)       139       80       44.3%       -0.11 [-0.64, 0.41]	Heterogeneity: Tau <sup>2</sup> =	0.00; Chi <sup>2</sup> =	= 1.01, df	= 2 (P =	0.60); I <sup>2</sup> =	0%				-
Silesnick 2016         9.7         20.62         110         18.23         31.31         51         31.2%         -0.35 [-0.68, -0.01]           Dakof 2010         1         2.92         29         0.55         1.4         29         13.1%         0.19 [-0.32, 0.71]           Subtotal (95% CI)         139         80         44.3%         -0.11 [-0.64, 0.41]	Test for overall effect:	Z = 1.64 (P	= 0.10)							
Dakof 2010         1         2.92         29         0.55         1.4         29         13.1%         0.19 [-0.32, 0.71]           Subtotal (95% CI)         139         80         44.3%         -0.11 [-0.64, 0.41]	2.2.2 Long term follo	w up (12m)	)							
Subtotal (95% Cl) 139 80 44.3% -0.11 [-0.64 , 0.41]	Slesnick 2016	9.7	20.62	110	18.23	31.31	51	31.2%	-0.35 [-0.68 , -0.01]	
	Dakof 2010	1	2.92	29	0.55	1.4	29	13.1%	0.19 [-0.32 , 0.71]	
	Subtotal (95% CI)			139			80	44.3%	-0.11 [-0.64 , 0.41]	
Heterogeneity: Tau <sup>2</sup> = 0.10; Chi <sup>2</sup> = 2.97, df = 1 (P = 0.08); l <sup>2</sup> = 66%	Heterogeneity: Tau <sup>2</sup> =	0.10; Chi <sup>2</sup> =	= 2.97, df	= 1 (P =	0.08); I <sup>2</sup> =	66%				
Test for overall effect: Z = 0.42 (P = 0.67)	Test for overall effect:	Z = 0.42 (P	= 0.67)							



## **Mothers**

## Analysis 8.1 Comparison 8: Frequency of drug use, recipient parent

## Outcome 1: Mother

Analysis 4.1 Comparison 4: Frequency of alcohol misuse, recipient parent

### Outcome 1: Mother

	Exp	erimenta	al		Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
3.1.1 Short term follo	w up (6m)								
Slesnick 2013	7.18	13.6	30	20.37	30.51	25	11.3%	-0.57 [-1.11 , -0.03]	
Slesnick 2016	9.63	19.56	114	16.42	26.51	51	26.9%	-0.31 [-0.64 , 0.02]	
Donohue 2014	1.9	4.3	24	4.5	20.1	31	11.6%	-0.17 [-0.70 , 0.37]	
Dakof 2010	1.1	5.56	29	1.04	4.09	24	11.3%	0.01 [-0.53 , 0.55]	
Subtotal (95% CI)			197			131	61.1%	-0.27 [-0.50 , -0.04]	•
Heterogeneity: Tau <sup>2</sup> =	0.00; Chi <sup>2</sup> =	= 2.41, df	= 3 (P =	0.49); l <sup>2</sup> =	0%				•
Test for overall effect:	Z = 2.35 (P	= 0.02)							
3.1.2 Long term follo	w up (12m	)							
Slesnick 2016	9.7	20.62	110	18.23	31.31	51	26.5%	-0.35 [-0.68 , -0.01]	
Dakof 2010	1	2.92	29	0.55	1.4	29	12.4%	0.19 [-0.32 , 0.71]	
Subtotal (95% CI)			139			80	38.9%	-0.11 [-0.64 , 0.41]	
Heterogeneity: Tau <sup>2</sup> =	0.10; Chi <sup>2</sup> =	= 2.97, df	= 1 (P =	0.08); I <sup>2</sup> =	66%				
Test for overall effect:	Z = 0.42 (P	= 0.67)							

	Psy	chosocia	al	Co	mparisor	n		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
8.1.1 Short-term follo	ow up (6 m	onths)							
Saldana 2015	0.42	1.16	13	1.3	2.83	9	3.5%	-0.42 [-1.28 , 0.44]	
Donohue 2014	6.4	20	24	10	20.3	31	7.9%	-0.18 [-0.71, 0.36]	
Dakof 2010	0	0.01	29	0	0.01	23	7.6%	0.00 [-0.55 , 0.55]	
Slesnick 2013	30.5	40.1	30	28.35	37.18	25	8.0%	0.05 [-0.48 , 0.59]	
Catalano 1999	9.08	25.78	78	6.78	19.69	57	15.1%	0.10 [-0.24 , 0.44]	
Slesnick 2016	16.1	33.88	114	8.83	24.18	51	15.7%	0.23 [-0.10 , 0.56]	
Subtotal (95% CI)			288			196	57.8%	0.07 [-0.12 , 0.25]	<b>_</b>
Heterogeneity: Tau <sup>2</sup> =	0.00; Chi <sup>2</sup> =	: 3.08, df	= 5 (P = (	).69);   <sup>2</sup> = (	0%			- / -	T T
Test for overall effect:			-						
8.1.2 Long-term follo	w up (12 m	onths)							
Saldana 2015	0	0.1	13	3.33	10	9	3.4%	-0.51 [-1.37 , 0.36]	
Catalano 1999	6.89	15.81	74	19.68	36.82	58	14.7%	-0.47 [-0.82 , -0.12]	
Dakof 2010	0	0.01	29	0	0.01	29	8.4%	0.00 [-0.51 , 0.51]	
Slesnick 2016	12.31	28.96	110	9.2	25.18	51	15.6%	0.11 [-0.22 , 0.44]	_ <b>_</b>
Subtotal (95% CI)			226			147	42.2%	-0.17 [-0.51 , 0.17]	
Heterogeneity: Tau <sup>2</sup> =	0.06; Chi <sup>2</sup> =	6.57, df	= 3 (P = (	0.09); l² = {	54%			- / -	
Test for overall effect:									



## Fathers

## Analysis 4.2 Comparison 4: Frequency of alcohol misuse, recipient parent

## **Outcome 2: Father**

	Exp	erimenta	al		Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
3.2.1 Short term follow up (	6m)								
Lam 2009 (Intervention 1)	14.9	20.7	25	29.8	22.6	13	12.5%	-0.68 [-1.37 , 0.01]	<b>←</b>
Lam 2009 (Intervention 2)	15.7	22.4	25	29.8	22.6	13	12.7%	-0.61 [-1.30 , 0.07]	·
Kelley 2002 (Intervention 2)	19.4	27.2	25	29.6	25.3	12	12.4%	-0.37 [-1.07 , 0.32]	
Kelley 2002 (Intervention 1)	28.6	26.2	22	29.6	25.3	12	12.1%	-0.04 [-0.74 , 0.67]	
Subtotal (95% CI)			97			50	49.7%	-0.43 [-0.78 , -0.09]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi² = 2.01,	df = 3 (P	= 0.57); l4	2 = 0%					
Test for overall effect: Z = 2.4	4 (P = 0.01	)							
3.2.3 Long term follow up (1	12m)								
Kelley 2002 (Intervention 2)	29.1	25.6	25	42.1	32.1	12	12.3%	-0.46 [-1.15 , 0.24]	
Lam 2009 (Intervention 2)	21.4	19.4	25	29.8	18.6	13	13.0%	-0.43 [-1.11 , 0.25]	
Lam 2009 (Intervention 1)	22.2	20.2	25	29.8	18.6	13	13.0%	-0.38 [-1.05 , 0.30]	
Kelley 2002 (Intervention 1)	39.6	22.4	22	42.1	32.1	12	12.0%	-0.09 [-0.80 , 0.61]	
Subtotal (95% CI)			97			50	50.3%	-0.34 [-0.69 , 0.00]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi² = 0.66,	df = 3 (P	= 0.88); l	<sup>2</sup> = 0%				- / -	-
Test for overall effect: Z = 1.9	5 (P = 0.05	)							
Test for overall effect: Z = 1.9	5 (P = 0.05	)							

## Analysis 8.2 Comparison 8: Frequency of drug use, recipient parent

## **Outcome 2: Father**

	Exp	erimenta	al		Control			Std. mean difference	Std. mean differenc
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% C
7.2.1 Short term follow up (	6m)								
Kelley 2002 (Intervention 2)	22.4	25.8	22	38.5	26.8	11	11.3%	-0.60 [-1.34 , 0.14]	
Lam 2009 (Intervention 1)	14.9	20.7	25	21.8	22.6	13	13.6%	-0.32 [-0.99 , 0.36]	
Lam 2009 (Intervention 2)	15.7	22.4	25	21.8	22.6	13	13.6%	-0.27 [-0.94 , 0.41]	
Kelley 2002 (Intervention 1)	36.4	24.3	21	38.5	26.8	11	11.6%	-0.08 [-0.81 , 0.65]	
Subtotal (95% CI)			93			48	50.0%	-0.31 [-0.66 , 0.04]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi² = 0.99, (	df = 3 (P	= 0.80); l <sup>a</sup>	2 = 0%				• • •	<b>•</b>
Test for overall effect: Z = 1.7	4 (P = 0.08)	)							
7.2.2 Long term follow up (1	12m)								
Kelley 2002 (Intervention 2)	33.1	35.6	22	48.8	32.2	11	11.5%	-0.44 [-1.18 , 0.29]	
Lam 2009 (Intervention 2)	21.4	19.4	25	29.8	18.6	13	13.4%	-0.43 [-1.11 , 0.25]	
Lam 2009 (Intervention 1)	22.2	20.2	25	29.8	18.6	13	13.5%	-0.38 [-1.05 , 0.30]	
Kelley 2002 (Intervention 1)	46.6	24.8	21	48.8	32.2	11	11.6%	-0.08 [-0.81 , 0.65]	
Subtotal (95% CI)			93			48	50.0%	-0.34 [-0.69 , 0.01]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi² = 0.65.	df = 3 (P	= 0.88); 1	<sup>2</sup> = 0%					
Test for overall effect: Z = 1.8									



## Involving the child

Analysis 3.1 Comparison 3: Frequency of alcohol misuse, child involvement

### Outcome 1: Child present

	Exp	erimenta	al	(	Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
4.1.1 Short term follo	ow up (6m)								
Slesnick 2016	9.63	19.56	114	16.42	26.51	51	31.6%	-0.31 [-0.64 , 0.02]	
Donohue 2014	1.9	4.3	24	4.5	20.1	31	12.2%	-0.17 [-0.70 , 0.37]	
Dakof 2010	1.1	5.56	29	1.04	4.09	24	11.9%	0.01 [-0.53 , 0.55]	
Subtotal (95% CI)			167			106	55.7%	-0.21 [-0.46 , 0.04]	
Heterogeneity: Tau <sup>2</sup> =	0.00; Chi <sup>2</sup> :	= 1.01, df	= 2 (P =	0.60); l <sup>2</sup> = (	0%				
Test for overall effect:	Z = 1.64 (P	= 0.10)							
4.1.2 Long term follo	w up (12m	)							
Slesnick 2016	9.7	20.62	110	18.23	31.31	51	31.2%	-0.35 [-0.68 , -0.01]	
Dakof 2010	1	2.92	29	0.55	1.4	29	13.1%	0.19 [-0.32 , 0.71]	
Subtotal (95% CI)			139			80	44.3%	-0.11 [-0.64 , 0.41]	
Heterogeneity: Tau <sup>2</sup> =	0.10; Chi2:	= 2.97, df	= 1 (P =	0.08); I <sup>2</sup> = (	66%				
Test for overall effect:	Z = 0.42 (P	= 0.67)							

### Analysis 7.1 Comparison 7: Frequency of drug use, child involvement

#### Outcome 1: Child present

	Exp	erimenta	al 👘	(	Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
8.1.1 Short term follo	ow up (6m)								
Saldana 2015	0.42	1.16	13	1.3	2.83	9	4.1%	-0.42 [-1.28 , 0.44]	
Donohue 2014	6.4	20	24	10	20.3	31	9.0%	-0.18 [-0.71 , 0.36]	
Dakof 2010	0	0.01	29	0	0.01	23	8.6%	0.00 [-0.55 , 0.55]	
Catalano 1999	9.08	25.78	78	6.78	19.69	57	16.0%	0.10 [-0.24 , 0.44]	
Slesnick 2016	16.1	33.88	114	8.83	24.18	51	16.6%	0.23 [-0.10 , 0.56]	<b></b>
Subtotal (95% CI)			258			171	54.3%	0.07 [-0.13 , 0.26]	<b></b>
Heterogeneity: Tau <sup>2</sup> =	0.00; Chi <sup>2</sup> :	= 3.08, df	= 4 (P = (	0.55); l <sup>2</sup> = (	0%				T I
Test for overall effect:	Z = 0.68 (P	= 0.50)							
8.1.2 Long term follo	w up (12m	)							
Saldana 2015	0	0.1	13	3.33	10	9	4.0%	-0.51 [-1.37 , 0.36]	
Catalano 1999	6.89	15.81	74	19.68	36.82	58	15.7%	-0.47 [-0.82 , -0.12]	_
Dakof 2010	0	0.01	29	0	0.01	29	9.5%	0.00 [-0.51 , 0.51]	
Slesnick 2016	12.31	28.96	110	9.2	25.18	51	16.5%	0.11 [-0.22 , 0.44]	_ <b>_</b>
Subtotal (95% CI)			226			147	45.7%	-0.17 [-0.51 , 0.17]	-
Heterogeneity: Tau <sup>2</sup> =	0.06; Chi <sup>2</sup> =	= 6.57, df	= 3 (P = 0	0.09); l <sup>2</sup> = 5	54%			- · ·	
Test for overall effect:	Z = 1.00 (P	= 0.32)							

## Analysis 3.2 Comparison 3: Frequency of alcohol misuse, child involvement

### Outcome 2: Without child

	Exp	erimenta	al		Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% Cl
4.2.1 Short term follow up (	6m)								
Lam 2009 (Intervention 1)	14.9	20.7	25	29.8	22.6	13	10.4%	-0.68 [-1.37 , 0.01]	<b>←</b>
Lam 2009 (Intervention 2)	15.7	22.4	25	29.8	22.6	13	10.5%	-0.61 [-1.30 , 0.07]	
Slesnick 2013	7.18	13.6	30	20.37	30.51	25	16.9%	-0.57 [-1.11 , -0.03]	
Kelley 2002 (Intervention 2)	19.4	27.2	25	29.6	25.3	12	10.3%	-0.37 [-1.07 , 0.32]	
Kelley 2002 (Intervention 1)	28.6	26.2	22	29.6	25.3	12	10.0%	-0.04 [-0.74 , 0.67]	
Subtotal (95% CI)			127			75	58.2%	-0.47 [-0.76 , -0.18]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi <sup>2</sup> = 2.19,	df = 4 (P	= 0.70); l <sup>a</sup>	<sup>t</sup> = 0%					•
Test for overall effect: Z = 3.1	7 (P = 0.00	2)							
4.2.2 Long term follow up (1	(2m)								
Kelley 2002 (Intervention 2)	29.1	25.6	25	42.1	32.1	12	10.2%	-0.46 [-1.15 , 0.24]	
Lam 2009 (Intervention 2)	21.4	19.4	25	29.8	18.6	13	10.8%	-0.43 [-1.11 , 0.25]	
Lam 2009 (Intervention 1)	22.2	20.2	25	29.8	18.6	13	10.8%	-0.38 [-1.05 , 0.30]	
Kelley 2002 (Intervention 1)	39.6	22.4	22	42.1	32.1	12	10.0%	-0.09 [-0.80 , 0.61]	
Subtotal (95% CI)			97			50	41.8%	-0.34 [-0.69 , 0.00]	
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi² = 0.66,	df = 3 (P	= 0.88); l	<sup>t</sup> = 0%					-
Test for overall effect: Z = 1.9	5 (P = 0.05	)							

## Analysis 7.2 Comparison 7: Frequency of drug use, child involvement

## Outcome 2: Without child

	Exp	erimenta	d i		Control			Std. mean difference	Std. mean difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
8.2.1 Short term follow up (6	im)								
Kelley 2002 (Intervention 2)	22.4	25.8	22	38.5	26.8	11	9.2%	-0.60 [-1.34 , 0.14]	
Lam 2009 (Intervention 1)	14.9	20.7	25	21.8	22.6	13	11.1%	-0.32 [-0.99 , 0.36]	
Lam 2009 (Intervention 2)	15.7	22.4	25	21.8	22.6	13	11.2%	-0.27 [-0.94 , 0.41]	
Kelley 2002 (Intervention 1)	36.4	24.3	21	38.5	26.8	11	9.5%	-0.08 [-0.81 , 0.65]	
Slesnick 2013	30.5	40.1	30	28.35	37.18	25	18.0%	0.05 [-0.48 , 0.59]	
Subtotal (95% CI)			123			73	59.0%	-0.20 [-0.49 , 0.09]	-
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi² = 2.27,	df = 4 (P :	= 0.69); 14	! = 0%					•
Test for overall effect: Z = 1.3	4 (P = 0.18	)							
8.2.2 Long term follow up (1	2m)								
Kelley 2002 (Intervention 2)	33.1	35.6	22	48.8	32.2	11	9.4%	-0.44 [-1.18 , 0.29]	
Lam 2009 (Intervention 2)	21.4	19.4	25	29.8	18.6	13	11.0%	-0.43 [-1.11 , 0.25]	
Lam 2009 (Intervention 1)	22.2	20.2	25	29.8	18.6	13	11.1%	-0.38 [-1.05 , 0.30]	
Kelley 2002 (Intervention 1)	46.6	24.8	21	48.8	32.2	11	9.5%	-0.08 [-0.81, 0.65]	
Subtotal (95% CI)			93			48	41.0%	-0.34 [-0.69 , 0.01]	-
Heterogeneity: Tau <sup>2</sup> = 0.00; C	hi² = 0.65,	df = 3 (P :	= 0.88); I	<sup>t</sup> = 0%					-
Test for overall effect: Z = 1.8	B (P = 0.06	)							



## Conclusions

- Traditional drug and alcohol treatment may not be enough
- Fathers seem to benefit more
- Mothers negative recovery capital?
- Involving children may not be helpful
- Limitations