

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Analysis of Substance Use, Trauma and PTSD Characteristics Associated With Completion of Follow-up Interviews

	Follow-up interview									No. of follow-up interviews completed
	6wk			3mth			9mth			
	Yes (n=74)	No (n=29)	OR (95% CI)	Yes (n=82)	No (n=21)	OR (95% CI)	Yes (n=77)	No (n=26)	OR (95% CI)	
Substance use										
Mean age of first intoxication (SD)	12.76 (3.06)	13.03 (3.94)	0.98 (0.86-1.11)	13.13 (3.34)	11.67 (3.01)	1.19 (0.99-1.43)	12.88 (3.00)	12.69 (4.17)	1.02 (0.89-1.17)	1.01 (0.97-1.05)
History of injecting drug use (%)	62 (83.8)	20 (69.0)	2.32 (0.85-6.32)	64 (78.0)	18 (85.7)	0.59 (0.16-2.24)	62 (80.5)	20 (76.9)	1.24 (0.42-3.62)	0.93 (0.68-1.29)
Used substance last month (%):										
- Heroin	35 (47.3)	11 (37.9)	1.47 (0.61-3.53)	39 (47.6)	7 (33.3)	1.81 (0.66-4.96)	33 (42.9)	13 (50.0)	0.75 (0.31-1.83)	1.05 (0.81-1.36)
- Other opiates	30 (40.5)	9 (31.0)	1.52 (0.61-3.78)	33 (40.2)	6 (28.6)	1.68 (0.59-4.79)	31 (40.3)	8 (30.8)	1.52 (0.59-3.92)	1.11 (0.85-1.44)
- Amphetamines	33 (44.6)	10 (34.5)	1.53 (0.63-3.73)	33 (40.2)	10 (47.6)	0.74 (0.28-1.94)	33 (42.9)	10 (38.5)	1.20 (0.48-2.98)	1.03 (0.80-1.34)
- Cocaine	14 (18.9)	8 (27.6)	0.61 (0.23-1.67)	18 (22.0)	4 (19.0)	1.20 (0.36-4.00)	16 (20.8)	6 (23.1)	0.87 (0.30-2.54)	0.96 (0.70-1.31)
- Hallucinogens	9 (12.2)	8 (27.6)	0.36 (0.12-1.06)	11 (13.4)	6 (28.6)	0.39 (0.12-1.21)	13 (16.9)	4 (15.4)	1.12 (0.33-3.79)	0.83 (0.58-1.21)
- Benzodiazepines	51 (68.9)	24 (82.8)	0.46 (0.16-1.36)	60 (73.2)	15 (71.4)	1.09 (0.38-3.17)	56 (72.7)	19 (73.1)	0.98 (0.36-2.67)	0.94 (0.71-1.26)
- Alcohol	51 (68.9)	18 (62.1)	1.36 (0.55-3.32)	54 (65.9)	15 (71.4)	0.77 (0.27-2.21)	51 (66.2)	18 (69.2)	0.87 (0.33-2.27)	1.00 (0.76-1.31)
- Cannabis	49 (66.2)	20 (69.0)	0.88 (0.35-2.22)	54 (65.9)	15 (71.4)	0.77 (0.27-2.21)	52 (67.5)	17 (65.4)	1.10 (0.43-2.81)	0.98 (0.75-1.29)
- Inhalants	3 (4.1)	4 (13.8)	0.26 (0.06-1.26)	3 (3.7)	4 (19.0)	0.16 (0.03-0.79)	5 (6.5)	2 (7.7)	0.83 (0.15-4.58)	0.68 (0.37-1.24)
- Tobacco	69 (93.2)	29 (100)	N/A	77 (93.9)	21 (100)	N/A	72 (93.5)	26 (100)	N/A	0.74 (0.44-1.25)
Median no. of drug classes used last month (range) ^a	4.0 (1.0-8.0)	4.0 (2.0-8.0)	0.94 (0.71-1.24)	4.0 (2.0-8.0)	4.0 (1.0-8.0)	0.88 (0.65-1.19)	4.0 (2.0-8.0)	4.0 (1.0-8.0)	1.01 (0.76-1.35)	0.99 (0.91-1.07)
Median no. of dependence criteria met (range)	6.0 (3.0-7.0)	6.0 (3.0-6.0)	0.81 (0.47-1.38)	6.0 (3.0-7.0)	6.0 (3.0-6.0)	1.29 (0.76-2.19)	6.0 (3.0-7.0)	6.0 (3.0-6.0)	1.36 (0.83-2.22)	1.03 (0.88-1.20)

Trauma exposure										
Experienced (%):										
- Physical assault	70 (94.6)	26 (89.7)	2.02 (0.42-9.64)	76 (92.7)	20 (95.2)	0.63 (0.07-5.57)	71 (92.2)	25 (96.2)	0.47 (0.05-4.13)	0.99 (0.60-1.64)
- Threatened, held captive or kidnapped	68 (91.9)	24 (82.8)	2.36 (0.66-8.45)	73 (89.0)	19 (90.5)	0.85 (0.17-4.29)	67 (87.0)	25 (96.2)	0.27 (0.03-2.20)	0.99 (0.66-1.51)
- Witness injury or death	56 (75.7)	25 (86.2)	0.50 (0.15-1.62)	63 (76.8)	18 (85.7)	0.55 (0.15-2.08)	57 (74.0)	24 (92.3)	0.24 (0.05-1.1)	0.84 (0.62-1.13)
- Rape	53 (71.6)	17 (58.6)	1.78 (0.73-4.36)	60 (73.2)	10 (47.6)	3.00 (1.12-8.04)	57 (74.0)	13 (50.0)	2.85 (1.13-7.17)	1.27 (0.95-1.70)
- Sexual molestation	54 (73.0)	14 (48.3)	2.89 (1.19-7.05)	58 (70.7)	10 (47.6)	2.66 (1.00-7.08)	52 (67.5)	16 (61.5)	1.30 (0.52-3.27)	1.22 (0.92-1.62)
- Life-threatening accident	45 (60.8)	18 (62.1)	0.95 (0.39-2.29)	48 (58.5)	15 (71.4)	0.56 (0.20-1.60)	46 (59.7)	17 (65.4)	0.79 (0.31-1.99)	0.94 (0.72-1.22)
- Trauma occurred to someone else	40 (54.1)	16 (55.2)	0.96 (0.40-2.27)	45 (54.9)	11 (52.4)	1.11 (0.42-2.89)	44 (57.1)	12 (46.2)	1.56 (0.64-3.80)	1.04 (0.80-1.35)
- Other	23 (31.1)	10 (34.5)	0.86 (0.34-2.13)	27 (32.9)	6 (28.6)	1.23 (0.43-3.52)	25 (32.5)	8 (30.8)	1.08 (0.41-2.82)	1.01 (0.76-1.33)
- Natural disaster	16 (21.6)	9 (31.0)	0.61 (0.23-1.60)	21 (25.6)	4 (19.0)	1.46 (0.44-4.84)	20 (26.0)	5 (19.2)	1.47 (0.49-4.43)	1.01 (0.75-1.36)
- Tortured	14 (18.9)	11 (37.9)	0.38 (0.15-0.99)	18 (22.0)	7 (33.3)	0.56 (0.20-1.60)	19 (24.7)	6 (23.1)	1.09 (0.38-3.12)	0.87 (0.64-1.19)
- Combat experience	2 (2.7)	0 (0)	N/A	2 (2.4)	0 (0)	N/A	1 (1.3)	1 (3.8)	0.33 (0.02-5.46)	1.11 (0.46-2.69)
Median no. of trauma types experienced (range)	6.0 (2.0-10.0)	6.0 (2.0-9.0)	1.04 (0.80-1.34)	6.0 (2.0-10.0)	6.0 (2.0-9.0)	1.1 (0.83-1.47)	6.0 (2.0-10.0)	6.0 (2.0-9.0)	1.04 (0.80-1.36)	1.01 (0.94-1.10)
Median age at first trauma (range)	8.0 (1.0-44.0)	8.0 (2.0-29.0)	1.00 (0.95-1.06)	8.0 (1.0-34.0)	11.0 (2.0-44.0)	0.94 (0.89-1.00)	8.0 (1.0-44.0)	10.0 (4.0-28.0)	0.99 (0.93-1.04)	0.99 (0.98-1.01)
PTSD										
Mean CAPS score (SD)	89.73 (16.22)	91.79 (15.47)	0.99 (0.96-1.02)	90.00 (16.04)	91.52 (15.98)	0.99 (0.96-1.02)	89.49 (15.94)	92.73 (16.11)	0.99 (0.96-1.02)	1.00 (0.99-1.01)
Median duration of trauma symptoms in years (range)	10.5 (0.8-40.0)	9.0 (0.3-36.0)	1.01 (0.97-1.05)	10.0 (0.1-40.0)	9.0 (0.33-34.0)	1.00 (0.96-1.05)	9.0 (0.1-40.0)	10.0 (0.3-38.0)	0.98 (0.94-1.02)	1.00 (0.99-1.01)

eTable 2. Adjusted Comparisons Between the Treatment and Control Group on Continuous Measures of Outcome^a

	Baseline	6-weeks	3-months	9-months	Within group difference between baseline and 9 month follow-up ^b	Between group difference between baseline and 9 month follow-up ^c
					IRR (95%CI)	IRR (95%CI)
No. of drug classes used						
Mean (95%CI) ^d						
COPE + usual care (n=55)	3.71 (3.32 to 4.10)	2.04 (1.57 to 2.51)	2.07 (1.62 to 2.52)	2.13 (1.68 to 2.58)	0.71 (0.56 to 0.90)**	0.90 (0.65 to 1.26)
Usual care only (n=48)	3.81 (3.40 to 4.22)	2.26 (1.67 to 2.85)	2.31 (1.80 to 2.82)	2.28 (1.71 to 2.85)	0.78 (0.59 to 1.04)	Ref
Between group difference at each interview IRR (95%CI) ^c	0.95 (0.81 to 1.11)	0.85 (0.62 to 1.17)	0.84 (0.62 to 1.13)	0.86 (0.62 to 1.19)		
No. of dependence criteria met						
Mean (95%CI) ^d						
COPE + usual care (n=55)	5.33 (5.09 to 5.57)	2.62 (1.68 to 3.56)	2.49 (1.75 to 3.23)	2.27 (1.58 to 2.96)	0.55 (0.41 to 0.74)****	0.74 (0.49 to 1.12)
Usual care only (n=48)	5.58 (5.36 to 5.80)	2.96 (2.22 to 3.70)	3.41 (2.70 to 4.12)	2.98 (2.27 to 3.69)	0.74 (0.56 to 0.98)*	Ref
Between group difference at each interview IRR (95%CI) ^c	0.95 (0.89 to 1.02)	0.84 (0.55 to 1.29)	0.69 (0.49 to 0.98)*	0.71 (0.47 to 1.05)		
					Mean difference (95%CI)	Mean difference (95%CI)
CAPS						
Mean (95%CI) ^e						
COPE + usual care (n=55)	91.13 (87.03 to 95.23)	68.93 (60.15 to 77.71)	67.85 (59.93 to 75.77)	52.89 (43.72 to 62.06)	-36.15 (-47.33 to -24.97)***	-16.67 (-29.84 to -3.50)*
Usual care only (n=48)	89.38 (84.70 to 94.06)	75.93 (69.03 to 82.83)	73.38 (66.79 to 79.97)	67.23 (59.21 to 75.25)	-19.47 (-30.74 to -8.21)**	Ref

Mean between group difference at each interview (95%CI) ^c	2.00 (-4.49 to 8.47)	-7.14 (-19.29 to 5.02)	-5.67 (-15.18 to 3.85)	-14.17 (-27.67 to -1.69)*		
BDI						
Mean (95%CI) ^d						
COPE + usual care (n=55)	36.07 (33.17 to 38.97)	27.70 (22.55 to 32.85)	29.74 (25.74 to 33.74)	24.44 (19.29 to 29.59)	-11.12 (-17.07 to -5.17)****	-4.88 (-12.03 to 2.28)
Usual care only (n=48)	31.69 (28.08 to 35.30)	25.39 (21.82 to 28.96)	25.94 (21.71 to 30.17)	24.78 (20.15 to 29.41)	-6.25 (-11.67 to -0.82)*	Ref
Mean between group difference at each interview (95%CI) ^c	4.23 (-0.37 to 8.83)	2.06 (-4.01 to 8.13)	3.54 (-2.19 to 9.27)	-0.65 (-8.21 to 6.90)		
STAI-S						
Mean (95%CI) ^d						
COPE + usual care (n=55)	54.69 (51.16 to 58.22)	49.24 (43.85 to 54.63)	49.89 (45.83 to 53.95)	46.44 (42.09 to 50.79)	-5.97 (-11.88 to -0.06)*	-5.95 (-13.16 to 1.26)
Usual care only (n=48)	50.42 (46.89 to 53.95)	47.35 (43.29 to 51.41)	48.64 (44.19 to 53.09)	47.50 (43.15 to 51.85)	-0.02 (-5.13 to 5.10)	Ref
Mean between group difference at each interview (95%CI) ^c	3.83 (-1.04 to 8.69)	1.05 (-4.63 to 6.73)	0.40 (-5.39 to 6.20)	-2.13 (-8.46 to 4.21)		

* $p < .05$ ** $p < .01$ *** $p < .001$ **** $p < .0001$

^a All models controlled for history childhood sexual abuse, history of childhood trauma, and cumulative proportion of time spent in usual care.

^b Reference category is baseline interview.

^c Referent category is the control group.

^d Group x time interaction effect not significant at $p < .05$.

^e Group x time interaction effect significant at $p = .019$.

eTable 3. Adjusted Comparisons Between the Treatment and Control Group on Categorical Measures of outcome^a

	Baseline	6-weeks	3-months	9-months
	n (%)	n (%)	n (%)	n (%)
% abstinent^b				
COPE + usual care (<i>n</i> =55)	0 (0)	12 (21.8)	10 (18.2)	10 (18.2)
Usual care only (<i>n</i> =48)	0 (0)	15 (31.3)	12 (25.0)	13 (27.1)
Between group difference at each interview OR (95%CI) ^c	N/A	0.65 (0.25 – 1.66)	0.76 (0.25 – 2.31)	0.72 (0.23 – 2.22)
% diagnosis of substance dependence^b				
COPE + usual care (<i>n</i> =55)	55 (100)	26 (47.3)	26 (47.3)	25 (45.4)
Usual care only (<i>n</i> =48)	48 (100)	28 (58.3)	28 (58.3)	27 (56.2)
Between group difference at each interview OR (95%CI) ^c	N/A	0.55 (0.22-1.42)	0.54 (0.21-1.38)	0.53 (0.22-1.29)
% diagnosis of PTSD^b				
COPE + usual care (<i>n</i> =55)	55(100)	48 (87.3)	47 (85.4)	31 (56.4)

Usual care only (<i>n</i> =48)	48 (100)	45 (93.8)	43 (89.6)	38 (79.2)
Between group difference at each interview OR (95%CI) ^c	N/A	0.39 (0.05-2.73)	0.66 (0.18-2.40)	0.30 (0.11-0.79)*

* $p < .05$.

^a All models controlled for history childhood sexual abuse, history of childhood trauma, and cumulative proportion of time spent in usual care.

^b Group x time interaction effect not significant at $p < .05$.

^c Referent category is the control group.

eFigure. Data collection pattern

