

## Supplementary Material Vi: Additional Economic Tables

Table 5. Screening and intervention costs (£ in 2019 prices) by allocated treatment

Source of Incremental Cost	Treatment Group	Control Group	Comment
RISKIT CJS Intervention Cost per participant	267.28 [162.37]	0.00	The variation in RISKIT CJS intervention costs derives from the actual participation in individual sessions and the varying cost of group sessions depending on the number of attendees.
Training costs for interventionists (per participant)	49.24	0.00	Based on the one-day training session with two trainers (Band 7 researcher and Youth Worker) and opportunity cost for 24 participants (substance misuse workers), including venue costs. Curtis and Burns (2020): Researcher - Band 7, Table 9, p. 119 at £58 per hour; youth worker: Table 6.10 p. 84 - Counselling for children with mental and emotional difficulties - £49 per hour.
Individual session (MI-1) (per participant)	32.67	0.00	40-minute session with a substance misuse worker. Curtis and Burns (2020) Table 6.10 p. 84 - Counselling for children with mental and emotional difficulties - £49 per hour
Group session 1 (per session)	428	0.00	Based on two trainers (Band 7 researcher and youth worker) over 4 hours. Curtis and Burns (2020): Researcher - Band 7, Table 9, p. 119 at £58 per hour, youth worker: Table 6.10 p. 84 - Counselling for children with mental and emotional difficulties - £49 per hour.
Group session 2 (per session)	428	0.00	
Individual session (MI-2) (per participant)	32.67	0.00	40-minute session with a substance misuse worker. Curtis and Burns (2020) Table 6.10 p. 84 - Counselling for children with mental and emotional difficulties - £49 per hour

Table 6. Results of incremental cost-effectiveness analysis (completed cases) (n = 132)

Outcome	Not adjusted		Adjusted	
	RISKIT CJS	TAU	RISKIT CJS	TAU
<b>Primary analysis</b>				
N of obs.	62	70	62	70
Total cost [SD]	560.36 [1104.40]	1296 [8834.69]	279.10 [2097.49]	848.47 [8311.03]
QALY [SD]	0.8435 [0.1777]	0.8862 [0.1525]	0.3756 [0.0949]	0.3842 [0.0928]
ICER (95% Fieller CI)	£15644 (Fieller's 95% CI £-35404 to £186798)		£67000 (Fieller's CI cannot be defined)	
<b>(i) exclusion of outliers</b>				
N of obs.	61	68	61	68
Total cost [SD]	437.64 [539.17]	98.95 [417.97]	274.76 [513.37]	-40.20 [413.86]
QALY [SD]	0.8507 [0.1700]	0.8899 [0.1278]	0.3937 [0.0890]	0.4003 [0.0909]
ICER (95% Fieller CI)	-£8643 (Fieller's 95% CI £22389 to £-3292)		-£47800 (Fieller's 95% CI £10364 to £-7469)	
<b>(ii) intervention costs fixed across all participants</b>				
N of obs.	62	70	62	70
Total cost [SD]	550.32 [1106.96]	1296.00 [8834.69]	319.45 [2100.04]	893.54 [8310.76]
QALY [SD]	0.8435 [0.1777]	0.8862 [0.1525]	0.3756 [0.0949]	0.3842 [0.0928]
ICER (95% Fieller CI)	£15857 (Fieller's 95% CI £-35176 to £187394)		£67556 (Fieller's CI cannot be defined)	
<b>(iii) training costs spread across 6 cohorts of participants</b>				
N of obs.	62	70	62	70
Total cost [SD]	519.33 [1104.40]	1296.00 [8834.69]	242.91 [2098.61]	852.44 [8310.81]
QALY [SD]	0.8435 [0.1777]	0.8714 [0.0845]	0.3756 [0.0949]	0.3842 [0.0928]
ICER (95% Fieller CI)	£18207 (Fieller's CI cannot be defined)		£70933 (Fieller's CI cannot be defined)	

Note: adjustment for age, sex, site, and baseline costs)

Table 7. Results of secondary incremental cost-effectiveness analysis

Outcome	Not adjusted		Adjusted	
	RISKIT CJS	TAU	RISKIT CJS	TAU
<b>(i) analysis on Per Protocol (P.P.) sample</b>				
N of obs.	39	70	39	70
Total cost [SD]	546.19 [605.31]	1296 [8834.69]	323.38 [2143.22]	848.47 [8311.03]
QALY [SD]	0.8561 [0.1863]	0.8862 [0.1525]	0.3773 [0.0852]	0.3842 [0.0928]
ICER (95% Fieller CI)	£24906 (Fieller's CI cannot be defined)		£76422 (Fieller's CI cannot be defined)	
<b>(ii) QALY based on CHU-9D measure</b>				
N of obs.	50	62	50	62
Total cost [SD]	560.36 [1104.40]	1296.00 [8834.69]	279.10 [2097.49]	848.47 [8311.03]
QALY [SD]	0.8573 [0.1066]	0.8862 [0.1525]	0.3776 [0.0689]	0.3731 [0.0626]
ICER (95% Fieller CI)	£52129 (Fieller's CI cannot be defined)		-£128323 (Fieller's CI cannot be defined)	

Note: adjustment for age, sex, site, and baseline costs)