Supplementary Table 1. Scores on outcome measures at post-treatment and follow up based on multiple imputation.

Outcome variable	WL			CT-PTSD			Group effect [a]
	M	SD	N	M	SD	N	
PTSD symptoms (CPTSDI)							
Post	10.1	4.0	15	2.6	3.4	14	$F_{1,26} = 26.05$, p<.0001
6MFU	-	-	-	1.6	2.5	14	-
12MFU	-	-	-	2.2	3.5	14	-
PTSD severity (CPSS)							
Post	22.9	15.4	15	6.8	10.3	14	$F_{1,26} = 17.69$, p<.0005
6MFU	-	-	-	5.3	8.2	14	-
12MFU	-	-	-	5.8	6.0	14	-
Depression (MFQ)							
Post	25.7	20.1	15	11.3	13.5	14	$F_{1,26} = 4.59$, p<.05
6MFU	-	-	-	11.7	10.6	14	-
12MFU	-	-	-	8.5	7.0	14	-
Anxiety (SCAS)							
Post	48.4	32.1	15	20.4	17.6	14	$F_{1,26} = 8.59$, p<.007
6MFU	-	-	-	17.0	15.1	14	-
12MFU	-	-	-	14.8	9.9	14	-
Functioning (CGAS) [b]	55.7	13.4	15	77.1	13.7	14	$F_{1,26} = 14.66$, p<.0008
Parent-report emotional difficulties (SDQ) [b]	6.1	3.3	15	3.3	2.0	14	$F_{1,26} = 6.91$, p<.02
Parent-report conduct problems (SDQ) [b]	4.4	2.4	15	1.9	1.6	14	$F_{1,26} = 6.05$, p<.03
Parent-report hyperactivity (SDQ) [b]	6.5	2.2	15	3.1	2.2	14	$F_{1,26} = 16.01$, p<.0005

Note. WL = wait list; CT-PTSD = Cognitive Therapy for PTSD; Post = post-CT-PTSD/WL (week 11); 6MFU = six month follow-up; 12MFU = 12 month follow up; CPTSDI = Children's PTSD Inventory; CPSS = Child PTSD Symptom Scale; MFQ = Mood and Feelings Questionnaire; SCAS = Spence Child Anxiety Scale; CGAS = Clinician's Global Assessment Scale; SDQ = Strengths and Difficulties Questionnaire.
[a] All analyses are ANCOVA, with pre-treatment scores as covariates. [b] Post-treatment only.

Supplementary Table 2. Mediator measures for completers at each assessment.

Outcome variable	WL			CT-PTSD			Group effect [a]
	M	SD	N	M	SD	N	
Misappraisals (CPTCI)							
Pre	64.6	22.8	15	60.5	15.8	14	$F_{(1,28)} = .30$, p=.59
Mid	60.6	27.7	15	46.1	19.6	13	$F_{(1,27)} = 2.09$, p=.16
Post	62.9	27.6	13	38.9	15.5	13	$F_{(1,25)} = 7.57$, p<.02
Memory quality (TMQQ)							
Pre	32.8	4.6	15	33.7	4.3	14	$F_{(1,28)} = .30$, p=.59
Mid	28.5	8.7	15	27.9	7.1	13	$F_{(1,27)} = .15$, p=.70
Post	30.8	7.9	13	21.7	4.9	13	$F_{(1,25)} = 14.29$, p<.001
Rumination							
Pre	9.5	2.5	15	10.2	1.6	14	$F_{(1,28)} = .90$, p=.35
Mid	10.0	2.4	15	8.8	2.7	13	$F_{(1,27)} = 1.95$, p=.18
Post	10.0	1.6	13	6.7	2.7	13	$F_{(1,25)} = 21.39$, p<.0001
Safety-seeking behavs							
Pre	36.3	17.2	15	34.3	14.2	14	$F_{(1,28)} = .12$, p=.74
Mid	36.0	21.5	15	23.1	13.7	13	$F_{(1,27)} = 3.47$, p=.07
Post	35.2	20.3	13	18.5	15.1	13	$F_{(1,25)} = 5.68$, p<.03
Self-blame							
Pre	4.2	2.5	15	3.1	1.6	14	$F_{(1,28)} = 1.88$, p=.18
Mid	3.9	2.4	15	2.6	1.2	13	$F_{(1,27)} = 1.51$, p=.23
Post	4.0	2.7	13	2.8	1.5	13	$F_{(1,25)} = .29$, p=.60
Social support (MSPSS)							
Pre	62.9	19.5	15	65.0	13.2	14	$F_{(1,28)} = .12$, p=.73
Post	69.5	12.6	13	67.5	16.1	13	$F_{(1,25)} = .32$, p=.58

Note. [a] At pre-treatment, one-way analysis of variance; at mid- and post-treatment, one-way analysis of covariance with pre-treatment scores as covariates. WL = wait list; CT-PTSD = Cognitive Therapy for PTSD; Pre = pre-treatment (i.e. at randomisation); Mid = five weeks post-randomisation; Post = post-CT-PTSD/WL (week 11); CPTCI = Child Post-Traumatic Cognitions Inventory; TMQQ = Trauma Memory Quality Questionnaire; MSPSS = Multidimensional Scale of Perceived Social Support.

Supplementary Table 3. Mediators of treatment responsiveness.

Mediator	a path	b path	c path	c' path	Indirect effect $(c - c')$	95% CI of indirect effect	R^2

Analysis 1: Mediators of relationship between trial allocation and pre-post change in PTSD severity (CPSS) – the role of pre-post changes in cognitive mechanisms

Misappraisals

Mediator	a path	b path	c path	c' path	Indirect effect $(c - c')$	95% CI of indirect effect	R^2
Δ Misappraisals (CPTCI)	20.18**	.40**	16.75***	8.67*	8.09	(2.57, 17.02)	.66

Memory quality

Δ Memory Quality (TMQQ)	8.68***	1.31***	17.20***	5.86	11.34	(5.16, 29.51)	.66

Dysfunctional coping

Δ Rumination	3.46***	2.61*	17.30***	8.26	9.04	(2.97, 18.29)	.54
Δ Safety-seeking behav.	12.58*	.52**	15.06***	8.55	6.51	(2.04, 15.00)	.74

Analysis 2: Mediators of relationship between allocation and PTSD severity (CPSS) at post-treatment – the role of pre-mid changes in cognitive mechanisms.

Misappraisals

Δ Misappraisals (CPTCI)	12.20	-.42***	-16.75***	-11.57**	-5.18	(-12.63, -.25)	.80

Memory quality

Δ Memory Quality (TMQQ)	.06	-.35	-17.20***	-17.18***	-.02	(-2.82, 4.01)	.62

Dysfunctional coping

Δ Rumination	1.27	-2.42**	-17.30***	-14.23***	-3.07	(-10.21, .27)	.74
Δ Safety-seeking behav.	9.78	-.37*	-15.06***	-11.46**	-3.60	(-13.00, -.10)	.77

Note. a path = independent variable (IV; allocation) to mediator; b path = direct effect of mediator on dependent variable (DV; pre-post change in CPSS or CPSS at post-treatment); c path = total effect of IV on DV; c' path = direct effect of IV on DV; CPTCI = Child Post-Traumatic Cognitions Inventory; TMQQ = Trauma Memory Quality Questionnaire. Pre-treatment symptom counts and corresponding mediator scores were entered as covariates into each model. Mediation is indicated where the 95% confidence intervals of the indirect effect do not cross zero.

* = $p<.05$; ** = $p<.01$; *** = $p<.001$.