

Supplementary File 4: Table of Treatment and Outcomes

	Intervention	Length of treatment	Treatment Fidelity/ manualised?	Home practice	Main Mental Health Outcomes	Main Physical Health Outcomes
Bussone et al. (1988)	<p>1. Biofeedback and progressive muscle relaxation involving:</p> <ul style="list-style-type: none"> - Progressive muscle relaxation training - EMG Biofeedback: baseline, auditory feedback and self-control (feedback signal turned off, while subject was instructed to continue attempting to relax). <p>2. Relaxation placebo</p>	7 hours	Manualised: Yes Treatment Fidelity independently rated: NR Supervision: NR	No home practice	<p>Significantly greater reductions in the biofeedback group compared to the control group from pre-treatment to follow-up (post treatment, 3,6, and 12 month) in</p> <ul style="list-style-type: none"> • trait anxiety** <p>No significant difference between groups on state anxiety</p>	<p>Significantly greater reductions in the biofeedback group compared to the control group from baseline to follow-up (post treatment, 3,6, and 12 month) in</p> <ul style="list-style-type: none"> • pain total index • EMG ratings (reduction of muscle tension).
Chalder, Deary, Husain & Walwyn, 2010	<p>1. Family focussed CBT:</p> <ul style="list-style-type: none"> - activity pacing - sleep routine 	13 hours	Manualised: Yes Fidelity independently rated: No	Families given treatment manual and homework	Significantly greater reductions in the FFCBT group compared to the	There were no significant differences between groups on post-

<p>*2012 Follow up study included</p>	<ul style="list-style-type: none"> - cognitive re-structuring - encouraging family members to communicate about the illness - relapse prevention. <p>2. Psycho-ed: dyadic teaching about CFS</p> <ul style="list-style-type: none"> - pre-disposing and maintaining factors (symptom management) 		<p>Treatment Fidelity monitored through supervision: Yes</p>		<p>control group from pre-treatment to 24 month follow-up on</p> <ul style="list-style-type: none"> • emotional • behavioural and • relationship difficulties <p>No significant differences between groups from post-treatment to follow-up (6 and 12 month) on depression scores. Depression scores not reported at 24 month follow-up.</p>	<p>treatment, 6, 12 or 24 month follow-up school attendance or fatigue scores.</p>
<p>Crawley et al. (2017)</p>	<p>1. Lightning Process (LP) plus Specialist Medical Care The Lightning Process consisted of</p> <ul style="list-style-type: none"> • Small group sessions • Psychoeducation about stress response, mind-body interaction and unhelpful thought processes. 	<p>12 hours</p>	<p>Manualised: Yes Treatment Fidelity independently monitored: NR Treatment Fidelity monitored through supervision : NR</p>	<p>Yes</p>	<p>Significantly greater reductions in LP+SMC group compared with control group (SMC alone) from pre-treatment to 6 and 12 month follow-up in</p> <ul style="list-style-type: none"> • anxiety scores on SCAS • anxiety scores on HADS 	<p>Significantly greater improvements in LP+SMC group compared with control group (SMC alone) from pre-treatment to 6 and 12 month follow-up in</p> <ul style="list-style-type: none"> • physical function • fatigue score on CFS

	<ul style="list-style-type: none"> • Group discussion about the use of language. • Goals identification • Cognitive strategies <p>The SMC was:</p> <ul style="list-style-type: none"> • conducted various healthcare professionals including doctors, physiotherapists and occupational therapists. • Participants were seen by the different health care providers based on individual goals. <p>2. Specialist Medical Care (SMC) alone</p>				<p>Significantly greater reductions in LP+SMC group compared with control group (SMC alone) from pre-treatment to 12 month follow-up, but not at 6 month follow-up, in</p> <ul style="list-style-type: none"> • depression scores on HADS 	<p>Significantly greater increase in LP+SMC group compared with control group (SMC alone) from pre-treatment to 12 month follow-up, but not at 6 month follow-up, in</p> <ul style="list-style-type: none"> • school attendance
Griffiths et al. (1996)	<p>1. Clinic, group based</p> <p>2. Home, individual</p>	12 hours	Manualised: Yes Treatment Fidelity		Between groups differences were not reported.	There was a significantly greater reduction in

	<p>Protocol for both groups:</p> <ul style="list-style-type: none"> • Education • progressive relaxation and breathing exercises • Cognitive skills I (monitoring positive and negative self-statements about headaches) • Cognitive skills II (generating positive self-statements to replace negative self-statements about exercises headaches) • Mental imagery • relapse management 		<p>independently rated: NR Supervision: NR</p>		<p>Statistically significant within groups improvements from baseline to post-treatment for</p> <ul style="list-style-type: none"> • coping skills for the home and clinic treatment groups but not the control group <p>Statistically significant within groups improvements from baseline to post-treatment for</p> <ul style="list-style-type: none"> • anxiety for the clinic group, but not the home or the control groups <p>Non-significant reduction in depression scores for the clinic group, but not the home or the control groups</p> <p>Psychological measures were not</p>	<ul style="list-style-type: none"> • headache scores for groups 1 and 2 compared with group 3 from pre- to post-treatment. <p>There were no significant differences between groups 1 and 2 on headache index scores.</p> <p>Non-significant within groups reduction for groups 1 and 2 but not the control group from baseline to post-treatment in</p> <ul style="list-style-type: none"> • medication usage <p>Between groups differences were not reported at follow-up (9weeks).</p>
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					collected at follow-up (9weeks).	
Hickman et al. 2015	<p>1.COPE-HEP:</p> <ul style="list-style-type: none"> Thinking, feeling, behaving headache triggers Self-esteem Stress and coping Problem solving <p>Headache education</p> <ul style="list-style-type: none"> Headache triggers <p>Headache management</p>	3 hours	Manualised:Yes Treatment Fidelity independently rated: No Treatment Fidelity monitored through supervision: Yes		<p>There were significant improvements in both groups from pre- to post- intervention in</p> <ul style="list-style-type: none"> anxiety scores**** depression scores copng beliefs <p>Perceived stress scores were not significantly reduced in either group.</p> <p>No between groups differences were observed.</p>	<p>There was a significant reduction in headache disability for both groups***</p> <p>No group differences were observed.</p>
Kashikar-Zuck et al. (2005)	<p>CBT (CST)</p> <ul style="list-style-type: none"> muscle relaxation techniques activity pacing cognitive techniques (negative thoughts/ mood difficulties) problem-solving sleep hygiene 	6 hours	Manualised:Yes Treatment Fidelity independently monitored: No Treatment Fidelity monitored through supervision : Yes	Home practice was assigned for each of these techniques at the end of each training session.	<p>Significant within subjects improvement in both groups from pre-to post-treatment for</p> <ul style="list-style-type: none"> depressive symptoms <p>There were no significant differences between groups.</p>	<p>Significantly greater reduction in the CST compared with the SM group from pre- to post-treatment in</p> <ul style="list-style-type: none"> pain levels <p>Significant within groups differences from pre-to post-intervention in</p>

	<ul style="list-style-type: none"> • Parent training in behavioural management techniques (changing response to illness) <p>2. SM Self-monitoring headaches with diary</p>				<p>Non-significant greater reduction in the SM to CST group compared to the CST to SM group in</p> <ul style="list-style-type: none"> • depressive symptoms from pre-treatment to follow-up (after cross-over) 	<ul style="list-style-type: none"> • pain-coping efficacy <p>No significant change in</p> <ul style="list-style-type: none"> • tender point or • pressure-pain threshold. <p>Non-significant greater reduction in the SM to CST group compared to the CST to SM group in</p> <ul style="list-style-type: none"> • overall functional disability from pre-treatment to follow-up (after cross-over)
Kashikar-Zuck, Ting, Arnold, Bean, Powers, Graham, et al. (2012)	<p>1.CBT</p> <ul style="list-style-type: none"> • muscle relaxation techniques • activity pacing • cognitive techniques (negative 	7 hours 30 minutes	Manualised: Yes Treatment Fidelity independently monitored: Yes Treatment Fidelity monitored	H/w for both groups on content of previous session	<p>Significantly greater reduction in the CBT group compared with the FME group from pre- to post-treatment in</p> <ul style="list-style-type: none"> • depression scores. 	<p>Significantly greater reduction in the CBT group compared with the FME group from pre- to post-treatment in</p> <ul style="list-style-type: none"> • Functional disability

	<p>thoughts/ mood difficulties)</p> <ul style="list-style-type: none"> • problem-solving • sleep hygiene • Parent training in behavioural management techniques (changing response to illness) <p>2. FM Education</p> <ul style="list-style-type: none"> • Information about medication <p>Discussion of lifestyle issues (diet, sleep, exercise)</p>		through supervision : NR		<p>Treatment gains, were maintained at follow-up, however the between groups difference did not reach significance at 6 month follow-up.</p>	<p>Treatment gains were maintained at 6 month follow-up.</p> <p>Significant within groups reduction from baseline to follow-up in</p> <ul style="list-style-type: none"> • pain severity <p>No significant between group differences.</p>
Law et al. (2015)	<p>1. Internet WEB-MAP programme plus Specialist Headache Treatment (SHT). For the Internet WEB-MAP programme, adolescents completed online modules on</p> <ul style="list-style-type: none"> • pain education • goal setting • relaxation training • distraction strategies 	9 hours per family (4 hours for adolescents, 4 hours for parents, 1 hour online coach time)	<p>Manualised: Yes</p> <p>Treatment Fidelity independently monitored: NR</p> <p>Treatment Fidelity monitored through supervision: Yes</p>	Yes	<p>No significant between group differences from pre to post-treatment or at 3 month follow-up for</p> <ul style="list-style-type: none"> • depression • anxiety <p>Significant within groups improvement from pre- to post-treatment and at 3 month follow-up for both groups in</p>	<p>No significant between group differences from pre to post-treatment or at 3 month follow-up on</p> <ul style="list-style-type: none"> • headache frequency • headache intensity • activity limitation

	<ul style="list-style-type: none"> • cognitive strategies • sleep and lifestyle • relapse prevention <p>Adolescents also had limited time with an online coach.</p> <p>Parents completed modules</p> <ul style="list-style-type: none"> • pain education • goal setting • operant training communication strategies • modelling • cognitive strategies • sleep and lifestyle • relapse prevention <p>For the Specialist Headache Treatment, participants received one or more of the following interventions as recommended by their providers at the headache clinic:</p>				<ul style="list-style-type: none"> • depression 	<p>Significant within groups improvement from pre- to post-treatment for both groups in</p> <ul style="list-style-type: none"> • headache frequency • headache intensity
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	<ul style="list-style-type: none"> • medication management • psychological therapy (face-to-face cognitive behavioural therapy for pain management and/or biofeedback) • physical therapy <p>2. Specialist Headache Treatment alone</p>					
Levy et al (2010)	<p>1.SLCBT:</p> <ul style="list-style-type: none"> • relaxation training • modification of family responses to illness and wellness behaviours • cognitive restructuring <p>2.Education (ES):</p> <ul style="list-style-type: none"> • education about GI system anatomy and function • nutrition guidelines <p>additional food-related information.</p>	4 hours	Manualised:Yes Treatment Fidelity independently monitored: Yes Treatment Fidelity monitored through supervision: NR		<p>Significantly greater improvement in the SLCBT group, compared with the ES group in</p> <ul style="list-style-type: none"> • parent report depression scores • child report catastrophising (anxiety measure) <p>Treatment gains were maintained at follow-up, however the between groups difference was not significant at 3 and 6 month follow-up as</p>	<p>Significantly greater reduction in the SLCBT group, compared with the ES group in</p> <ul style="list-style-type: none"> • parent report pain <p>from pre-treatment to follow-up (time points: post-treatment, 3 and 6 months)</p> <p>Significantly greater improvement in the SLCBT group, compared with the ES group in parent report</p>

					<p>the ES group had also improved.</p> <p>Significantly greater improvement in the SLCBT group, compared with the ES group in parent report</p> <ul style="list-style-type: none"> • Parental solicitousness (protectiveness in relation to pain) • Perceived pain threat • Problem focussed coping • Emotion focussed coping <p>And child report</p> <ul style="list-style-type: none"> • Pain coping skills <p>from pre-treatment to follow-up (time points: post-treatment, 3 and 6 months)</p>	<ul style="list-style-type: none"> • parent and child report symptom severity • parent report child functional disability <p>from pre-treatment to post-treatment, but not for follow-ups, where the ES group had also improved.</p>
McGrath et al. (1992)	1. Self-Administered (SA) at home 2. Clinic based (CB):	8 hours	Manualised: Yes Treatment Fidelity	Yes for both groups (not ctrl)	No between group differences were observed.	Significantly greater reduction for the SA group compared with the CB and

	<p>Protocol for both groups:</p> <ul style="list-style-type: none"> • Relaxation exercises • Cognitive restructuring • Distraction and coping strategies • Problem-solving <p>3.Control:</p> <ul style="list-style-type: none"> • Provided with list of common triggers for headache, asked to avoid <p>Taught a brainstorming technique for stressful situations</p>		<p>independently rated: NR</p> <p>Treatment Fidelity monitored through supervision : NR</p>		<p>A significant reduction in</p> <ul style="list-style-type: none"> • depression scores <p>from pre- to post-treatment for all 3 groups.</p> <p>*Treatment gains were maintained for the clinic and self-administer groups at 3 and 12 month follow-up.</p>	<p>control groups from pre- to post-treatment in</p> <ul style="list-style-type: none"> • headache index scores <p>Significant within groups improvements from pre- to post-treatment in</p> <ul style="list-style-type: none"> • headache index scores <p>for clinic and self-administer groups but not the control group.</p> <p>Treatment gains were maintained at follow-up</p>
Palermo et al. (2009)	<p>1.Online Family SLCBT:</p> <p>Children:</p> <ul style="list-style-type: none"> • psycho-education • cognitive restructuring • relaxation techniques <p>Parents:</p> <ul style="list-style-type: none"> • psychoeducation 	9 hours	<p>Manualised: Yes</p> <p>Treatment Fidelity independently rated: NA (online modules)</p>	Yes (assignments between logins)	<p>No significant within group or between group differences on pre- to post-treatment</p> <ul style="list-style-type: none"> • depression scores. <p>*A significant within groups reduction in the treatment group in</p>	<p>Significantly greater reduction in the SLCBT group compared with the control group in</p> <ul style="list-style-type: none"> • activity limitations • pain intensity <p>*Within groups treatment gains in</p>

	<ul style="list-style-type: none"> • operant skills training (response to illness) • communication • modelling <p>2. Wait list control group</p>				<ul style="list-style-type: none"> • depressive symptoms at 3 month follow-up (control group not followed up). 	these domains were maintained for the SLCBT group at follow-up (control group not followed up).
Palermo et al. (2016)	<p>1. Internet delivered CBT (WEB-MAP)</p> <ul style="list-style-type: none"> • Pain education • training in behavioural and cognitive coping skills • activity scheduling • education about pain behaviours • parental operant and communication strategies • Limited access to an online coach <p>2. Internet delivered Education</p> <ul style="list-style-type: none"> • Pain psycho-education 	9 hours per family (4 hours - adolescent, 4 hours - parent and 1 hour - coach time)	Manualised: Yes Treatment Fidelity independently monitored: NR Treatment Fidelity monitored through supervision: Yes	Yes	<p>Significantly greater reductions in Internet CBT group compared with control group from pre- to post-treatment, but not at 6 month follow up in</p> <ul style="list-style-type: none"> • Depression subscale (BAPQ) • Pain-related Anxiety subscale (BAPQ) <p>No significant between group differences on</p> <ul style="list-style-type: none"> • General anxiety subscale (BAPQ) 	<p>Significantly greater improvements in Internet CBT group compared with control group from pre-treatment to 6 follow-up in</p> <ul style="list-style-type: none"> • Activity limitations <p>No significant between group differences from pre-treatment to 6 month follow-up on</p> <ul style="list-style-type: none"> • pain intensity

	Diaries and assessments					
Scharff et al. (2002)	<p>1.Hand-warming group:</p> <ul style="list-style-type: none"> • Thermal biofeedback training • Progressive muscle relaxation • Imagery • Vasodilation • Breathing techniques • Stress management techniques <p>2.Hand-cooling group:</p> <ul style="list-style-type: none"> • Thermal biofeedback training • Imagery (cold places) • Peripheral vasoconstriction • Therapist support <p>3. Wait list control group</p>	4 hours (hand-warming and hand-cooling groups)	Manualised: Yes Treatment Fidelity independently rated: No Treatment Fidelity monitored through supervision : NR	Yes	<p>No significant between or within groups differences reported at any time point on</p> <ul style="list-style-type: none"> • Depression scores • Anxiety scores 	<p>Significantly greater reduction in the hand-warming group than the hand-cooling and waitlist control groups from pre- to post-treatment in</p> <ul style="list-style-type: none"> • Headache index <p>No between group differences at 3,6 or 12 month follow-up</p>
Schurman et al (2010)	1.BART:	8 hours and 20 minutes	Manualised: Yes Treatment Fidelity	Homework, focused	Significantly greater reduction in	Significantly greater reduction in the BART+SMC group

	<ul style="list-style-type: none"> • standard medical treatment plus • relaxation methods such as abdominal breathing progressive muscle relaxation imagery and autogenic handwarming • integration and maintenance of these skills. • Participants were provided with a practice CD and a temperature trainer for use at home <p>2.SMT: Standard medical treatment alone</p>		independently rated: NR Treatment Fidelity monitored through supervision : NR	on mastery of relaxation skills	<ul style="list-style-type: none"> • parent report depressive scores for the SMC group than the BART+SMC group from pre-treatment to 6 month follow-up. <p>No significant reduction in in either group for anxiety scores</p>	<p>compared with the SMC group from pre-treatment to 6 month follow in</p> <ul style="list-style-type: none"> • highest level of pain intensity pain duration up
Trautmann & Kroner-Herwig (2010)	<p>1.Internet based CBT:</p> <ul style="list-style-type: none"> • education on headaches • stress management 	Unknown (6 modules)	Manualised: Yes Treatment Fidelity independently	Yes	<p>No significant between group differences in</p> <ul style="list-style-type: none"> • pain catastrophizing 	<p>No significant between group differences in</p> <ul style="list-style-type: none"> • headache frequency

	<ul style="list-style-type: none"> • progressive relaxation techniques • cognitive restructuring • self-confidence strategies • problem-solving <p>2.Applied Relaxation (AR):</p> <ul style="list-style-type: none"> • progressive relaxation • cue-controlled relaxation • differential relaxation <p>3.Education (control): headache education</p>		rated: NA (online modules)		<p>(measure of anxiety)</p> <p>Significant reduction in all three groups from pre-treatment to follow-up (time-points at post-treatment and 6 months) in</p> <ul style="list-style-type: none"> • pain catastrophizing <p>No significant within or between group differences in</p> <ul style="list-style-type: none"> • depression • emotional adjustment • behavioural adjustment <p>relationship factors</p>	<ul style="list-style-type: none"> • headache intensity • headache duration <p>Significant reduction in all three groups from pre-treatment to follow-up (time-points at post-treatment and 6 months) in</p> <ul style="list-style-type: none"> • headache frequency <p>headache duration</p>
van der Veek, Derkx, Benninga, Boer, de Haan (2013)	<p>1.CBT: Tailored to child's needs</p> <ul style="list-style-type: none"> • relaxation exercises • cognitive re-structuring • graded exposure • behaviour therapy directed at parent 	4 hours 30 minutes	Manualised: No Tailored to child needs, including the therapists choice of 1 standard and 3 optional modules. Treatment Fidelity	Not reported	<p>Significantly greater reduction in the CBT group compared with the IMC group from pre- to post-intervention and at 6 month follow-up in</p> <ul style="list-style-type: none"> • depression scores • anxiety scores. 	<p>No significant between group differences on</p> <ul style="list-style-type: none"> • Pain intensity • pain duration • functional disability • Somatisation

	<p>(response to illness behaviours)</p> <p>2.Intensive Medical Treatment (IMT)</p> <ul style="list-style-type: none"> • prescription of medication • education about complaints • advice about continuing school and daily activities <p>dietary advice</p>		<p>independently rated: NA</p> <p>Treatment Fidelity monitored through supervision : Yes</p>		<p>These differences did not reach significance at 12 month follow-up as the IMC group scores had improved.</p>	<p>Significant within groups reduction from pre- to post-treatment for both groups in</p> <ul style="list-style-type: none"> • Pain intensity • pain duration • functional disability • Somatisation <p>These treatment gains were maintained at 6 and 12 month follow-up.</p>
Warner et al., (2011)	<p>1.CBT (Treatment of Anxiety and Physical Symptoms; TAPS)</p> <ul style="list-style-type: none"> • relaxation • cognitive restructuring • exposure exercises to target fears related to physical pain and anxiety 	14 hours and 15 minutes	<p>Manualised: Yes</p> <p>Treatment Fidelity independently rated: NR</p> <p>Treatment Fidelity monitored through supervision : NR</p>	NR	<p>Significantly greater reductions in TAPS group compared with control group from pre- to post-treatment in</p> <ul style="list-style-type: none"> • those meeting criteria for Anxiety Disorders • clinical severity rating of anxiety 	<p>Significantly greater reductions in TAPS compared with waitlist control group from pre- to post-treatment in</p> <ul style="list-style-type: none"> • parent pain rating • child pain rating <p>Significantly greater increases in TAPS</p>

	inducing situations <ul style="list-style-type: none"> • change parental responses to illness (decrease avoidance related to pain and reinforce active coping) 2.Wait list control group				*Treatment gains were maintained at 3 month follow-up	compared with control group from pre- to post-treatment in <ul style="list-style-type: none"> • independent evaluator global functioning scores *Treatment gains were maintained at 3 month follow-up
Wicksell et al. (2009)	1.ACT/CBT Child: <ul style="list-style-type: none"> • exposure to avoided situations • coping: emphasis of acceptance as an alternative to avoidance • cognitive shift in perspective from symptom reduction to valued living • behavioural activation Parent: <ul style="list-style-type: none"> • exposure 	13 hours	Manualised: Yes Treatment Fidelity independently monitored: Yes Treatment Fidelity monitored through supervision : Yes	Yes	Significantly greater changes were seen in the ACT group as compared to the MDT group from pre- to post-treatment in <ul style="list-style-type: none"> • Kinesiophobia (pain related anxiety) • pain impairment beliefs This difference reached significance only for pain impairment beliefs when 3.5 and 6.5 month follow-up assessments were	Significantly greater changes were seen in the ACT group as compared to the MDT group from pre- to post-intervention in <ul style="list-style-type: none"> • health-related quality of life • pain interference • pain intensity • pain-related discomfort These differences reached significance only for

	<ul style="list-style-type: none"> • operant mechanisms (adapting responses to illness) • shift perspective from symptom alleviation to valued life <p>2.Multidisciplinary treatment and amitriptyline (MDT)</p> <ul style="list-style-type: none"> • The MDT was performed by a psychiatrist, a child psychologist, a physiotherapist and a pain physician <p>Participants were seen by the different health care providers based on individual needs.</p>				<p>included in the analysis.</p> <p>A non-significant greater reduction in the ACT group compared to the MDT group in</p> <ul style="list-style-type: none"> • in depression scores <p>from pre-treatment to 6.5 month follow-up</p>	<p>Pain intensity and Pain-related discomfort when 3.5 and 6.5 month follow-up assessments were included in the analysis.</p>
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NR=Not Reported

*referring to pre-post treatment gains as follow-up comparison not carried out since control group had been given treatment at this stage

** Findings due to baseline differences and were not clinically significant.

***significant at the .10 level

**** Effects disappeared when analysis controlled for baseline levels