First	Year	Country	Study design	Control	CYP Age	CYP mental	Sample	% fathers	Measu	rement	Main Findings including mear
Author				Sample	in years	health difficulty	size		tool us	ed	(s.d.) where relevant
Acri ⁴⁰	2016	USA	Controlled	No	7 to 11	ODD	320	9.4%	PSI-SF		Mean 98.6 (22.49)
			trial								
Aggarwal ⁴¹	2018	India	Cross-	No	Mean 15	CD	32	unclear	PSS,	HAMA,	PSS: mothers 62.63 (16.00)
			sectional						WSAS		fathers 52.75 (13.9), p=0.01
											d=0.66.
											HAMA: mothers 19.4 (7.29)
											fathers 10.9 (5.79). p<0.001
											d=1.29.
											WSAS: mothers 21.59 (8.33)
											fathers 13.78 (7.52), p<0.001
											d=0.98.
Algorta ⁴²	2018	UK	Case-control	Yes	Mean 9.4	Bipolar	621	unclear	GBI,	Parent	Means - GBI case 36.14 (30.57)
					(s.d. 1.9)		(case:14		Stress	Survey	control 31.40 (27.27), p=0.07
							9,				Parent Stress Survey: Case

Supplementary Materials 1 Study Characteristics and main findings

							control:		(Sisson &	24.34 (14.10), control 18.33
							491)		Fristad, 2001)	(12.64), p<0.01.
CONAlqaht	2020	Saudi	Cross-	No	Up to 18	Anxiety	220	39.5%	MCS-12	Mean 46.8 (8.9)
ani ⁴³		Arabia	sectional							
Carroll ⁴⁴	2022	USA	Correlational	No	6 to 17	Psychoses	56	16%	ZBI	27% above cut-off for stres
										Mean 38.7 (16.39)
Cooper ⁴⁵	2006	UK	Case-control	Yes	6 to 16	Anxiety	215	53.7%	SCID	Major depression: case 12.99
							(case:13	(case:60		mothers, 3.9% fathers, contro
							6,	%,		2.2% mothers, 0% fathers. O
							control:	control:		3.64 (95% CI 1.05-64.2).
							79)	43.0%)		Any anxiety diagnosis: cas
										68.2% mothers, 27.5% fathers
										control 26.7% mothers, 14.79
										fathers. OR 5.9 (95% CI 1.68
										10.43)
Costin ⁴⁶	2004	Australia	Comparison	No	4 to 16	ODD	66	unclear	GHQ-28	Mean 29.1 (18.80)
			two							

			intervention							
			S							
Derisley47	2005	UK	Case-control	Yes	11 to 18	Anxiety and OCD	118 (case	unclear	BSI	OCD group 58.1 (10.18), clinical
							1: 28,			anxiety group 57.17 (9.69),
							case2: 28			control group 51.73 (9.41).
							, control:			OCD and clinical anxiety
							62)			significantly higher than
										control (d=0.65 and d=0.57
										respectively).
	2023	France	Cross-	No	13 to 21	Anorexia Nervosa	135	40.7%	HADS	HADS Fathers= 6.94 (3.63);
Duclos ⁴⁸			sectional						(anxiety), BDI-	mothers= 9.63 (4.79) p<0.0001,
									II	d=0.63.
										BDI-II: Fathers 8.76 (6.02),
										Mothers14.88 (9.71), p=0.08,
										d=0.76
Farley ⁴⁹	2023	Australia	Pilot	No	3 to 7	Anxiety Disorders	21	4.8%	PSI-SF, BSI	57.2 % above cut-off for clinical
			intervention							anxiety
			(pre-post)							

										BSI mean 2.91 (1.99). PSI-SF
										total 95.2 (17.36)
Fields ⁵⁰	2012	USA	RCT	No	Mean 9.9	Depressive or	165	6.1%	HAMD, PDI	Mean HAMD 8.1 (7.5).
						bipolar disorders				PDI reveals rate 18% clinical
										level.
Gerkensme	2008	USA	Cross	No	2 to 19	Internalizing and	155	1%	CES-D	Mean 20 (12.62)
yer ⁵¹			sectional			externalizing child				
						behaviour				
						problems				
Halldorsson	2018	UK	Cross-	No	7 to 12	Anxiety (Social	647	42.1%	DASS	Depression means SA 8.39
52			sectional,			anxiety = SA and				(7.75), OA 6.06 (7.16); Anxiety
			two CYP			other anxiety =				means SA 5.31 (6.15), OA 3.66
			diagnosis			OA)				(5.11); general stress means SA
			groups							13.19 (8.33), OA 11.12 (8.45).
Hamovitch ¹	2019	USA	Cross-	No	7 to 10	ODD	213	38%	CES-D-SF	Mean 7.68 (5.64)
0			sectional							

He ⁵³	2020	China	Case-	Yes	4 to 11	ODD	521 (case	unclear	PSI-SF, CES-D	PSI: Parent distress - Case 33.56
			control,				256,			(7.41); control 31.70 (7.22)
			longitudinal				control			p=0.0039, d=0.36. Parent-child
							265)			- Case 28.01 (7.65); control
										24.76 (6.97), p=0.0001, d=0.66.
										Difficult child – Case 33.90
										(8.69); control 28.81 (8.32),
										p=0.0001, d=0.87.
										CES-D: Case: 10.07 (7.61)
										Control 8.00 (6.41). p=0.0008 ,
										d=0.33
He ⁵⁴	2021	China	longitudinal	No	6 to 13	ODD	370	41.9%	CES-D	Mean 13.30 (8.28)
								(155/370		
								reported		
								fathers,		
								28 of	F	
								sample		

									did not		
									report)		
Johnco ¹¹	2021	Australia	Cross-	No	Mean	Depression	and	531	4.14%	DASS	Mean 2.33 (3.66)
			sectional		11.2	anxiety		families			
Lebowitz ⁵⁵	2020	USA	Randomized	No	7 to 14	Anxiety		124	unclear	PSI	Mean 133.6 (20.6)
			Noninferiorit					families			
			У								
Lim ⁵⁶	2021	Korea	Cross-	No	5 to 7	Internalizing	and	1358	50%	К6	Mean fathers 10.96 (3.94),
			sectional			externalizing					mothers 11.54 (4.35).
						problems					p=0.0003, d=0.14
Ozyurt ⁵⁷	2016	Turkey	RCT	No	8 to 12	Anxiety		50	unclear	GHQ-28, STAI	Mean STAI-State 36.08 (7.00),
											STAI-Trait 43.23 (9.28), GHQ28
											Total: 4.62 (5.39)
Poole ⁵⁸	2018	Australia	RCT	No	12 to 17	Depressive		64	16.6%	DASS-21	Mean 6.47 (7.40)
						disorder		families			

Racey ⁵⁹	2018	UK	Mixed	No	14 to 18	Depression	29	0%	BDI-II	Mean8.6 (7.7)
			method,							
			feasibility							
Schwarte ⁶⁰	2017	Germany	Cross-	No	11 to 18	Anorexia nervosa	296	82.9%	BDI-II	Mean 6.15 (3.99)
			sectional							
Sengupta ⁶¹	2017	India	Cross-	No	Not	Psychiatric	100	50%	HDRS	Above cut-off for mild
			sectional		reported					depression 88% mothers, 56%
										fathers. OR 5.76 (95% CI 2.08-
										15.97), p=0.0008.
Settipani ⁶²	2013	USA	Cross-	No	7 to 14	Anxiety	111	focused	STAI	STAI-State: 29.53 (10.18). (Trait
			sectional					only on		not measured)
								mothers		
Stewart ⁶³	2019	UK	Pilot	No	Mean	Bulimia nervosa	study 1:	unclear	HADS	Mean: 6.15 (3.99)
					15.6		34			
Sung ⁶⁴	2019	Singapor	Cross-	No	6 to 19	Depression/	58	32.8%	ASR	Above clinical level for anxiety
		е	sectional			anxiety				– 4.5% mothers, 0% fathers.

Tan ⁶⁵	2005	Malaysia	Case-control	Yes	9 to 16	Depression	141	41.9%	BDI (original),	PSI: Parental distress
							(case: 82	(case:	PSI	Mothers: Case 29.2 (9.0),
							, control:	42.7%,		control 30.1 (5.4). Fathers: Case
							59)	control:		26.7 (8.6), control 29.3 (7.4).
								40.7%)		Case mothers vs fathers
										p=0.21, d=0.28.
										Parent-child interactions
										Mothers: Case 31.5 (10.7),
										control 29.4 (6.3). Fathers: case
										31.0 (7.9), controls 30.8 (7.2)
										Mothers vs fathers p=0.82,
										d=0.05
										Difficult child
										Mothers: Case 31.5 (10.7),
										control 31.3 (6.1). Fathers: Case
										34.4 (8.2), control 30.8 (6.9)
										Mothers vs fathers p=0.18,
										d=0.40

Mothers: Case (n=46) 99.2 (21.3), Control (n=35) 90.8 (14.2) Fathers: Case (n=36) 92.8 (21.3), control (n=24) 90.8 (17.2) Case: mothers compared fathers p=0.1807, d=0,30. BDI: Case: Mothers n=46, 10.02 (8.52). Fathers n=36 7.33 (8.17). p=0.15, d=0.32. Control: Mothers n=36 6.89 (5.35), Fathers n=24 7.50 (7.52). Case mothers significantly worse than control mother scores, case fathers n.s. to control fathers.

					behaviour				(26.7) – normal range
									Parent-child dysfunction 61.1
									(26.7) – normal
									Difficult Child 76.5 (25.1) –
									normal
2020	Austria	Quasi-	No	Mean	Anorexia Nervosa	102	14%	GHQ12, SCL-	Means GHQ-12 4.7 (3.47),
		randomised		14.7			(gender)	90, BDI-II, STAI	SCL-90 = 0.43 (0.39), BDI-II
		feasibility							10.86 (7.02), STAI state 47.71
		trial							(10.66), STAI trait 41.49 (9.41)
2023	Australia	Repeated	No	<18	Eating disorder	372	unclear	DASS-21	34.3% above clinical cut-off.
		measures							Mean 16.41 (10.30)
2023	Austria	Cross-	No	10 to 23	anorexia nervosa	248	59%-69%	GHQ12, BDI-II,	Means STAI state 45.4 (11.83),
		sectional				(across 3	across 3	STAI	STAI trait 40.4 (10.37), BDI-II
						cohorts)	cohorts		11.1 (8.01), GHQ12: 4.8 (3.63)
2	023	023 Australia	2023 Austria Cross-	randomised feasibility trial 2023 Australia Repeated No measures 2023 Austria Cross- No	randomised 14.7 feasibility trial 2023 Australia Repeated No <18 measures 2023 Austria Cross- No 10 to 23	randomised 14.7 feasibility trial 2023 Australia Repeated No <18 Eating disorder measures 2023 Austria Cross- No 10 to 23 anorexia nervosa	randomised 14.7 feasibility trial 2023 Australia Repeated No <18 Eating disorder 372 measures 2023 Austria Cross- No 10 to 23 anorexia nervosa 248 sectional : (across 3	randomised14.7(gender)feasibilityfeasibilitytrial14.72023AustraliaRepeatedNo<18	randomised14.7(gender)90, BDI-II, STAIfeasibility trialfail14.7(gender)90, BDI-II, STAI2023AustraliaRepeatedNo<18

Abbreviations: ASR – Adult Self Report; BDI – Beck Depression Inventory; BDI-II – Beck Depression Inventory version 2; BSI – Beck Symptoms Inventory; CES-D: Centre for Epidemiological Studies Depression Scale ; CES-D-SF: Centre for epidemiological Studies Depression short form; DASS: Depression Anxiety Stress Scale; DASS-21: Depression Anxiety Stress Scale 21 items; GBI: ; GHQ28: General Health Questionnaire 28 items; GHQ12: General Health Questionnaire 12 items; HADS: Hospital Anxiety and Depression Scale ;HAMA: Hamilton Anxiety Rating Scale; HAMD: Hamilton Depression Rating Scale; HDRS: Hamilton Depression Ratin Scale; K6: Kessler Psychological Distress Scale; MCS-12:Mental health component scale of the 12-item Short Form ; PDI: Psychiatric Diagnostic Interview ;PSI: Parenting Stress Index; PSI-SF: Parenting Stress Index Short Form; PSS: Parental Stress Scale; SCID: Structured Clinical Interview for DSM Disorder ; SCL-90: Symptom Checklist 90; STAI: State Trait Anxiety Inventory ; WSAS: the Work and Social Adjustment Scale; ZBI: Zarit Burden Inventory

Appendix 1: Full searches for Research question 1

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M	edl	11	e

Medline	
S1	TI ((parent or parents or parental or mother or father or care*giver or guardian* or carer* or paternal or maternal)) OR AB ((parent or parents or parental or mother or father or care*giver or guardian* or carer* or paternal or maternal)) OR MM ("Parents+")
S2	TI ((children or adolescent* or adolescence or youth* or child or teenager* or pediatric* or paediatric* or kid* or teen* or young person or young people or boy* or girl* or juvenile*)) OR AB ((children or adolescent* or adolescence or youth* or child or teenager* or pediatric* or paediatric* or kid* or teen* or young person or young people or boy* or girl* or juvenile*)) OR MH ("Child+") OR MM ("Adolescent")
\$3	(TI ((attention deficit disorder* or "attention deficit hyperactive disorder* "or "ADHD") OR AB (attention deficit disorder* or "attention deficit hyperactive disorder* "or "ADHD") OR MH ("Attention Deficit Disorder with Hyperactivity") OR (TI ((Eating disorder* or anorexia or bulimia or eating problem*)) OR AB ((Eating disorder* or anorexia or bulimia or eating problem*) OR MH("Feeding and Eating Disorders+") OR (TI ((Emerging personality disorder* or emerging personality problem*)) OR AB ((Emerging personality disorder* or emerging personality problem*)) OR AB ((Emerging personality disorder* or emerging personality problem*)) OR MH ("Personality Disorder+")) OR (TI ((Externalising disorder* or externalising disorder* or externalizing disorder* or externalizing problem*) OR AB (Externalising disorder* or externalising disorder* or externalizing problem*) OR AB (Externalising disorder* or externalising disorder")) OR (TI ((Oppositional defiant disorder* or oppositional defiant problem*)) OR AB ((Oppositional defiant disorder* or oppositional defiant problem*) OR (MH"Attention Deficit and Disruptive Behavior Disorders+")) OR (TI ((Psychos* or psychotic disorder* or psychotic problem*)) OR AB ((Psychos* or psychotic disorder* or psychotic problem*)) OR MH ("Psychotic Disorders+)) OR (TI ((Anxiety or depression or depressive or "obsessive compulsive disorder" or "OCD" or phobia or phobic or mood disorder or anxiety disorder or panic disorder or agoraphobia or internalising problem* or internalising problem* or internalizing problem* or internalizing disorder*)) OR AB ((Anxiety or depression or depressive or "obsessive compulsive disorder" or "OCD" or phobia or phobic or mood disorder or anxiety disorder or panic disorder or agoraphobia or internalising problem* or internalising problem* or internalizing problem* or internalizing disorder*) OR (MH "Depressive Disorder") OR (MH "Depressive Disorder, Major") OR (MH "Depressive Disorder, Treatment- Resistant") OR (MH "Dysthymic Diso
S4	TI ("Information need*" or "knowledge need*" or need* or support or experience*or impact or wellbeing or concern* or want or perspective* or belief* or attitude*or prefer* or anxiety or anxious or depressed or depression or strain or stress or burden or "parent satisfaction" or "family relationship" or "parent* self-efficacy") OR AB ("Information need*" or "knowledge need*" or need* or support or experience*or impact or wellbeing or concern* or want or perspective* or belief* or attitude*or prefer* or anxiety or anxious or depressed or depression or strain or stress or burden or "parent satisfaction" or "family relationship" or "parent* self-efficacy"))
S5	S1 N8 S4
S6	S2 N8 S3
S7	S5 AND S6 (English date limitation applied)

PsycInfo, EMBASE, AMED, CINAHL

S1	(parent or parents or parental or mother or father or care*giver or guardian* or carer* or
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	or guardian* or carer* or paternal or maternal).ti. or parents.kw.

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Web of Science - Complete Core Collection

#1	TS=(parent OR parents OR parental OR mother OR father OR care*giver OR guardian*
	OR carer* OR paternal OR maternal)
#2	TS=(children OR adolescent* OR adolescence OR youth* OR child OR teenager* OR
	pediatric* OR paediatric* OR kid* OR teen* OR 'young person' OR 'young people' OR
	boy* OR girl* OR juvenile*)
#3	TS=('attention deficit disorder*' OR 'attention deficit hyperactive disorder*' OR adhd OR
	'attention deficit disorder with hyperactivity' OR 'Eating disorder* or anorexia or bulimia'
	OR 'eating problem*' OR 'feeding and eating disorders' OR 'emerging personality
	disorder*' OR 'emerging personality problem*' OR 'personality disorder' OR
	'externalising disorder*' OR 'externalising problem*' OR 'externalizing disorder*' OR
	'externalizing problem*' OR 'oppositional defiant disorder*' OR 'oppositional defiant
	problem*' OR 'attention deficit and disruptive behavior disorders' OR psychos* OR
	psychotic disorder*' OR 'psychotic problem*' OR anxiety OR depression OR depressive
	OR 'obsessive compulsive disorder' OR 'ocd' OR phobia OR phobic OR 'mood disorder'
	OR 'anxiety disorder' OR 'panic disorder' OR agoraphobia OR 'internalising problem*'
	OR 'internalising disorder*' OR 'internalizing problem*' OR 'internalizing disorder*)

#4	TS=("Information need*" or "knowledge need*" or need* or support or experience*or
	impact or wellbeing or concern* or want or perspective* or belief* or attitude*or prefer*
	or anxiety or anxious or depressed or depression or strain or stress or burden or "parent
	satisfaction" or "family relationship" or "parent* self-efficacy")
#5	TS=((parent OR parents OR parental OR mother OR father OR care*giver OR guardian*
	OR carer* OR paternal OR maternal) NEAR/8 ("Information need*" or "knowledge
	need*" or support or experience* OR impact* or wellbeing or concern* or want or
	perspective* or belief* or attitude* or prefer* or anxiety or anxious or depressed or
	depression or strain or stress or burden or "parent satisfaction" or "family relationship" or
	"parent* self-efficacy"))
#6	TS=(("attention deficit disorder" or "attention deficit hyperactive disorder" or adhd or
	"attention deficit disorder with hyperactivity" or "eating disorder" or "eating problem" or
	"feeding and eating disorder" or "emerging personality disorder" or "emerging
	personality problem" or "personality disorder" or "externalising disorder" or
	"externalising problem" or "oppositional defiant disorder" or "oppositional defiant
	problem" or "attention deficit and disruptive behavior disorders" or psychos* or
	"psychotic" or anxiety or depression or depressive or anxious or "obsessive compulsive
	disorder" or OCD or phobia or phobic or "mood disorder" or "anxiety disorder" or "panic
	disorder" or agoraphobia or "internalising problem" or "internalising disorder" or
	"internalizing problem" or "internalizing disorder" or "externalizing problem" or
	"externalizing disorder") NEAR/8 (children or adolescent* or adolescence or youth* or
	child or teenager* or pediatric* or paediatric* or kid* or teen* or "young person" or
	"young people" or boy* or girl* or juvenile*))
#7	#5 AND #6
#8	#7 English

Cochrane Library

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#1	parent OR parents OR parental OR mother OR father OR care*giver OR guardian* OR
	carer* OR paternal OR maternal
#2	children OR adolescent* OR adolescence OR youth* OR child OR teenager* OR
	pediatric* OR paediatric* OR kid* OR teen* OR 'young person' OR 'young people' OR
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#3	'attention deficit disorder*' OR 'attention deficit hyperactive disorder*' OR adhd OR
	'attention deficit disorder with hyperactivity' OR 'Eating disorder* or anorexia or bulimia'
	OR 'eating problem*' OR 'feeding and eating disorders' OR 'emerging personality
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	'psychotic disorder*' OR 'psychotic problem*' OR anxiety OR depression OR depressive
	OR 'obsessive compulsive disorder' OR 'ocd' OR phobia OR phobic OR 'mood disorder'
	OR 'anxiety disorder' OR 'panic disorder' OR agoraphobia OR 'internalising problem*'
	OR 'internalising disorder*' OR 'internalizing problem*' OR 'internalizing disorder*
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	or wellbeing or concern* or want or perspective* or belief* or attitude*or prefer* or
	anxiety or anxious or depressed or depression or strain or stress or burden or "parent
	satisfaction" or "family relationship" or "parent* self-efficacy"
#5	#1 and #2 and #3 and #4

WHO International Clinical Trials Registry Platform; Social Policy and Practice; Applied Social Sciences Index and Abstracts; and Open Grey

#1	parent OR parents OR parental OR mother OR father OR caregiver OR guardian* OR
	carer* OR paternal OR maternal

#2	children OR adolescent* OR adolescence OR youth* OR child OR teenager* OR pediatric* OR paediatric* OR kid* OR teen* OR 'young person' OR 'young people' OR boy* OR girl* OR juvenile*
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#5	#1 and #2 and #3 and #4

Measure Abbreviati on	Measure Name	Variable measured	Score Range	Cut-off point	Reference
ASR	Adult Self-Report from the Achenbach System of Empirically Based Assessments	Anxiety, depression, and personality problems – somatic, avoidant and antisocial.	0-240 for total score	The thresholds for clinical and subclinical scores for the ABCL and ASR correspond to the 97th and 93rd percentiles.	Achenbach T.M., Rescorla L.A. Manual for the ASEBA Adult Forms & Profiles. University of Vermont, Research Center for Children, Youth, & Families; Burlington, VT, USA: 2003
BDI	Beck Depression Inventory (original 1961 measure)	Depression	1 to 42	 1-10:Normal 11-16:Mild 17-20 :Borderline clinical depression 21-30: Moderate 31-40 :Severe 40+: Extreme The cut-off also used in the Turkish version, seen in Karacan, F. A., Yilmaz, S., & Kara, T. (2022). The Mental Health and Marital Adjustment of Mothers of Children with Attention Deficit Hyperactivity Disorder. 60(3), pp. 220-227. 	Beck At, Ward Ch, Mendelson M, Mock J, Erbaugh J. An inventory for measuring depression. Arch Gen Psychiatry 1961;4:561- 71.
BDI-II	BDI-II	Depression	0 to 63	0-13 – minimal 14-19 – mild 20-28 – moderate 29 – 63 - severe	Beck, A. T., Steer, R. A., Ball, R., & Ranieri, W. (1996). Comparison of Beck Depression Inventories -IA and -II in psychiatric outpatients. Journal of Personality Assessment, 67, 588– 597. 10.1207/s15327752jpa 6703.

Table 1: Cut-off points to indicate normal, elevated, or clinical ranges of outcome measures used in included studies

BSI	Brief Symptom Inventory	Distress	Each subscale (T- score): 0 to 100	 < 60: "no distre > 60 and < 63: " > 63 and < 70: " > 70: "severe di PSDI (Positive s < 49: "no distre > 49 and < 60: " > 60 and < 70: " > 70: "severe di PST (Positive sy < 47: "no distre > 47 and < 57: " 	(mild distress" (remarkable distress (stress") (symptom distress in (sss") (mild distress") (remarkable distress) (stress") (mptom total) t-sco (sss") (mild distress") (mild distress") (remarkable distress)	s" ndex) t-scores: s" rres:	(Derogatis & Melisaratos, 1983) (Derogatis, 1993) (Helga et al., 2021)
CES-D	Centre for Epidemiological Studies Depression Scale	Depression	0 to 60	16+: Clinically si	ignificant depressiv	e symptoms	(Hann D. et al., 1999) (Radloff, 1977)
DASS-42	Depression Anxiety Stress Scale	Depression, anxiety, stress	Each subscale: 0 to 42	Depression: 0-9: Normal 10-13: Mild 14-20: Moderate 21-27: Severe + 28: Extremely severe	Anxiety 0-7: Normal 8-9: Mild 10-14: Moderate 15-19: Severe 20+: Extremely Severe	Stress 0-14: Normal 15-18: Mild 19-25: Moderate 26-33: Severe 34+ :Extremely Severe	(Lovibond & Lovibond, 1995)

DASS-21	Depression Anxiety Stress Scale – 21 items (Short version)	Depression, anxiety, stress	Each subscale: 0 to 21	Depression: 0-4: Normal 5-6: Mild 7-10: Moderate 11-13: Severe + 14: Extremely severe	Anxiety 0-3: Normal 4-5: Mild 6-7: Moderate 8-9: Severe 10+: Extremely Severe	Stress 0-7 Normal 8-9 Mild 10-12 Moderate 13-16: Severe 17+: Extremely Severe	(Henry JD & JR, 2005)
GBI	General Behavior Inventory (Depue et al., 1982)			Depression – 22 Hypomania – 13			(RL et al., 2002)
GHQ-12	GHQ (short version 12 items)	Psychological disorder	0 to 36	experiment gro	Id to identify "case oup scores and con ase of psychologica	•••	(Anjara et al., 2020; Goldberg D. P. et al., 1998)
GHQ-28	GHQ (short version 28 items)	Psychological disorder	0 to 84	Total scores: - 23: Non-psych + 24: Psychiatric Threshold for s Low: 1/2 Mid:2/3 High :3/4 - 6/7 Alternatively - " difficulties.	a ubscales:	nore indicative of clinical	(Hjelle Ellen G. et al., 2019; Willmott Sasi A. et al., 2004) (Pisula et al., 2019)
HADS	Hospital and Anxiety and Depression Scale	Anxiety and depression	0 to 21	0-7: Normal 8-10: Mild			(A.S Zigmond & Snaith, 1983)

				11-14 Moderate	
				15-21 Severe	
HAMA /	The Hamilton Anxiety	Anxiety	0 to 56	<17: Mild	(W Maier et al., 1988)
HARS	Scale			18-24: Mild to moderate	
				25-30: Moderate to severe	
HAMD /	The Hamilton Depression	Depression	0 to 29	0-7: Normal	(E Frank et al., 1991)
HDRS	Scale			8-13: Mild	
				14-18: Moderate	
				19-22: Severe	
				>23: Very severe	
HRSD-24 /	Hamilton Depression Scale	Depression	0 to 72	< 8: no depression	(LI et al., 2020)
HAMD24	- 24			8–19: mild depression	
				20–34: moderate depression	
				≥ 35: severe depression	
K6	Kessler 6	Depression	0 to 24	5 +: Moderate	(Ronald C. Kessler et al.,
				13 +: Clinical	2003)
MCS-12	Mental health component	Mental	0 to 100	< 42: Clinical depression	(Ware et al., 1995)
	of the SF-12	wellbeing			
PSI-SF (36	Short version of the PSI	Stress	36 to 180 ¹	Using percentile scores	(Abidin, R. R., 1990)
item				Parental distress: Typical 15-80; high stress 81-89; clinically	(Dardas & Ahmad,
versions)				significant stress 90-100	2014)
				Parent-Child Dysfunctional interaction: Typical 5-80; high 81-84;	
				clinically significant 85-100	
				Difficult child: 15-80; 81-89; 90-100	
				Total stress: 15-80; 81-89; 90-100	
				Raw scores (clinical cutoff)	
				Parental distress: > 33	
				Parent-Child Dysfunctional interaction: > 27	
				Difficult child: > 33	
				Total stress: > 90	
PSI4-SF	Parenting Stress Index	Stress	T-scores: 20	T-scores:	https://www.tricare-
	Short Form version 4		to 100	< 62 within normal limits	west.com/content/dam
				> 66 clinically significant	/hnfs/tw/prov/resource

¹ Range of scores is taken from sum of the 3subscales

					s/pdf/ACD%20PSI%20Pr ovider%20education.pd f
PSS	Parental Stress Scale	Stress	0 to 40	Men cut-off: 24.0 Women cut-off: 25.6	(Judy O. Berry & Jones, 1995)
				Aggarwal paper has "severity of stress is rated as: Mild – 18 to 42; Moderate– 43 to 66; Severe – 67 to 90" with the scale going from 18-90 – see <u>A Comparative Study of Stress, Anxiety & Work</u> <u>Impairment in Parents of Children with Conduct Disorder</u> (sagepub.com)	
SCL-90-R	Symptom Check-List-90-R (SCL-90-R)	Overall mental health	Mean of item scores 0-4.	German version used in included study. Cut-off for Global scale 0.5 indicates clinical difficulties	Schmitz, N., N. Hartkamp, J. Kiuse, G. H. Franke, G. Reister, & W. Tress. (2000). The Symptom Check-List-90- R (SCL-90-R): A German Validation Study. <i>Quality of Life Research</i> , 9(2), 185–193. <u>http://www.istor.org/st</u> <u>able/4036992</u>
STAI	State-trait anxiety inventory	Anxiety (syndrome and trait)	20 to 80	Trait scale: > 40 high anxiety traits State scale: > 40 high anxiety symptoms	(Addolorato et al., 1999)
WSAS	The Work and Social Adjustment Scale	Impairment in functioning	0 to 40	0-9: Low impairment 10-19: Moderate impairment 20-40 Severe impairment	(James C Mundt et al., 2002)
ZBI	Zarit Burden Inventory	Burden	22 item: 0 to 88 Short:	Revised version: 0-21: No to mild burden 21-40: Mild to moderate Burden 41-60: Moderate to severe burden	(S. H Zarit et al., 1980) (Naser Al-Balushi et al., 2019)

Commented [SW1]: Website with information on scoring and results interpreation

0 to 48	61+: Severe burden	
Screen: 0 to 16	Short version: 0-10: No to mild burden 10-20: Mild to moderate burden 20+: High burden	
	Screen version: 8+: High burden	

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Supplementary Materials 3: Approach to study quality appraisal and results

The approach to study quality appraisal is set out below, with the criteria detailed in Table S3.1 and the appraisal results in Table S3.2.

The scale covers three areas: selection of participants; comparability of case-control groups (where relevant); and exposure to the issue of interest.¹ Each area has items that are scored with a star if criteria are met. This tool is commonly used to appraise quality in observational studies, and has versions for case-control and cohort studies, sometimes used for cross-sectional designs.^{2, 3} The scale is modifiable ³. Our review includes a range of study designs, including cross-sectional, case-control, and intervention studies. However, our core research question relates to establishing the levels of our variables in our population at baseline", rather than evaluating any type of intervention or longitudinal changes. As such, based on the originals and a version developed for cross-sectional studies⁴, we made modifications to increase relevance to our review. Modifications were made to specify what constitutes being a representative sample of cases and clarification regarding ascertainment of exposure (here exposure to CYP with a mental health condition). The details of comparability were expanded to allow evaluation not only of case-control designs, but also for cross-sectional designs around whether important confounding variables were considered. Given that our interest is not in repeated measures, follow-up considerations were altered to consider statistical testing and data completion. The criteria are detailed below in Table S3.1 and related to 1) selection of participants as representative, appropriate control group where included, how exposure to CYP mental health difficulties was ascertained, and definition of any control group; 2) comparability both in terms of comparison to any control group but also exploring within a sample the relevance of important factors such as presence of fathers in the sample and ethnic diversity; and 3) outcome assessment, testing and reporting of missing data. If the study provided acceptable evidence of the criteria, it was scored "*" and allocated a point. Otherwise the study scored "U" for unacceptable or "N/A" where the criteria was not relevant to that study. The maximum points available is nine, as in the original tool.

Criteria	Acceptable - scored "*"	Unacceptable – scored "U"
Selection: Representative of the (exposed) sample	Truly or somewhat representative – either statistically representative or drawn from an appropriate pool, e.g., parents of CYP who are attending services.	Intervention sample – whereby the characteristics and distress in parents taking part in an intervention may be different to the general parent population (e.g., worse therefore feeling need to attend intervention). Selected convenience sample No details given
Selection: Selection of non-exposure cohort N.B. N/A for designs other than case-control	Drawn from same / similar community as the exposed cohort	Drawn from a different cohort (e.g., parents in control group from a different ethnic group). No description given (where a case-control study).
Selection: Ascertainment of exposure	Clinical records revealing diagnosis of CYP mental health condition. And/or	Self-reported symptoms of distress, not in relation to clinical diagnosis

Table S3.1: Study quality appraisal criteria and scoring details

	Researchers used validated method	No information provided
	(e.g., structured clinical interview,	
	appropriate screening tool) to	
	confirm diagnosis of CYP mental	
	health condition	
Selection: Definition of	CYP has no clinical records of distress	Assumed no clinical diagnosis
controls	and is not involved in clinical services	without recording any
	or seeking support	attempts to ascertain this
	Self-report by parent and/or CYP	No information provided
	(e.g., CYPs have completed a	
	screening measure for the mental	
	health condition of interest).	
Comparability:	One star: Study controls for or	
Maximum two stars	analyses in relation to main factor:	relevant factors.
N.D. many N/A subara	parents' gender.	
N.B. may N/A where	Additional stars Study, controls for	
study sample is highly	Additional star: Study controls for	
focused on e.g., mothers	additional relevant factor (e.g.,	
of CYP with specific	parents' ethnicity).	
diagnosis Outcome: Assessment of	Clear outcomes are reported using	No validated measures used.
outcome	Clear outcomes are reported using validated measure with cut-off, or	
outcome	with comparison to control group.	No outcome reported.
N.B. this is an eligibility	with companyon to control group.	
for inclusion criterion		
Outcome: Statistical test	Appropriate statistical test is used to	Statistical test not appropriate.
outcome. Statistical test	describe the level of the observed	No statistical test described.
	variable in the sample, presented	
	with appropriate confidence	
	intervals / p- value.	
Outcome: None	Missing data were justified (e.g.,	Missing data was not justified
responses / incomplete	reasons for none responses or	or no clear statement about
data	reasons for participant withdrawal	missing data presented.
	provided).	
	· · ·	

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Study First Author	Selection: Representative of the (exposed) sample	Selection: Selection of non-exposure cohort	Selection: Ascertainment of exposure	Selection: Definition controls	of	Comparability:	Outcome: Assessment of outcome	Outcome: Statistical test	Outcome: None responses incomplete data	/ Tota / /9	al
Acri	*	*	*	NA		U	*	*	*		6
Aggarwal	*	NA	*	NA		*	*	*	NA		5
Algorta	*	*	*	U		U	*	*	NA		5
Alqahtani	*	NA	U	NA		**	*	*	NA		5
Carroll	*	NA	*	NA		U	*	U	NA		3
Cooper	*	U	*	*		*	*	*	*		7
Costin	U	NA	*	NA		U	*	*	*		4
Derisley	*	U	*	NA		U	*	*	NA		4
Duclos	*	NA	*	NA		*	*	*	*		6
Farley	U	NA	*	NA		U	*	*	*		4
Fields	U	NA	*	NA		U	*	*	NA		3
Gerkensmeyer	U	NA	*	NA		**	*	*	*		6
Halldorsson	*	NA	*	NA		*	*	*	*		6
Hamovitch	*	NA	U	NA		U	*	*	*		4
He, 2020	U	U	*	*		**	*	*	*		7
He, 2021	U	NA	*	NA		U	*	*	NA		3
Johnco	*	NA	U	NA		U	*	*	*		4
Lebowitz	*	NA	*	NA		U	*	*	*		5
Lim	*	NA	U	NA		*	*	*	NA		4
Ozyurt	*	NA	*	NA		U	*	*	*		5
Poole	*	NA	*	NA		U	*	*	*		5
Racey	*	NA	*	NA		U	*	*	*		5
Schwarte	*	NA	*	NA		*	*	U	*		5
Sengupta	*	U	*	NA		*	*	*	U		5
Settipani	*	NA	*	NA		U	*	U	*		4
Stewart	*	NA	U	NA		U	*	*	*		4
Sung	*	NA	*	NA		**	*	U	NA		5
Tan	*	*	*	U		*	*	*	NA		6

Table S3.2. The results of the study quality appraisal

Timmer	U	NA	*	NA	U	*	U	*	3
Truttmann	*	NA	*	NA	U	*	*	*	5
Wilksch	*	NA	U	NA	U	*	*	U	3
Zeiler	*	NA	*	NA	U	*	*	U	4

Supplementary Materials 4: Forest plots

Figure S4.1 Forest plots comparing case-control data for a) depression and b) parent stress

A: Forest plot for case-control studies measuring depression

Study or Subgroup	Std. Mean Difference	SE	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% Cl
Algorta 2018	0.17	0.09365	40.1%	0.17 [-0.01, 0.35]	-
Cooper 2006	1.163	0.57765	1.4%	1.16 [0.03, 2.30]	· · · · · · · · · · · · · · · · · · ·
He 2020	0.29	0.0881	44.0%	0.29 [0.12, 0.46]	-
Tan 2005	0.22	0.1704	14.4%	0.22 [-0.11, 0.55]	+
Total (95% CI)			100.0%	0.24 [0.11, 0.38]	◆
2 ,	= 0.00; Chi² = 3.45, df = 3 :: Z = 3.60 (P = 0.0003)	(P = 0.33)	; I² = 13%	b	-2 -1 0 1 2 Favours [case] Favours [control]

B: Forest plot for case-control studies measuring parent stress

	(Case		0	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
Algorta 2018	24.34	14.1	149	18.31	12.64	491	40.1%	0.46 [0.28, 0.65]	
He 2020	33.56	7.41	256	31.7	7.22	265	44.0%	0.25 [0.08, 0.43]	
Tan 2005	96.4	21.3	82	90.8	15.8	59	15.9%	0.29 [-0.05, 0.63]	+- -
Total (95% CI)			487			815	100.0%	0.34 [0.20, 0.49]	◆
Heterogeneity: Tau ² = Test for overall effect					0.25); l²	= 27%			-2 -1 0 1 2 Favours [case] Favours [control]

Figure S4.2 Forest plots comparing data from mothers and fathers for a) depression and b) anxiety

A: Forest plot comparing depression scores between mothers and fathers

Study or Subgroup	Std. Mean Difference	SE	Weight	Std. Mean Difference IV, Random, 95% CI		Std. Mean Difference IV, Random, 95% CI
Cooper 2006	0.7123	0.43582	6.1%	0.71 [-0.14, 1.57]		
Duclos 2023	0.72	0.18072	17.0%	0.72 [0.37, 1.07]		│ ∎
Lim 2021	0.14	0.03842	26.3%	0.14 [0.06, 0.22]		•
Schwarte 2017	0.51	0.11828	21.6%	0.51 [0.28, 0.74]		_
Sengupta 2017	0.46397	0.30146	10.2%	0.46 [-0.13, 1.05]		
Sung 2019	0.223541	0.5178	4.6%	0.22 [-0.79, 1.24]		
Tan 2005	0.32	0.22399	14.2%	0.32 [-0.12, 0.76]		
Total (95% CI)			100.0%	0.42 [0.18, 0.66]		◆
	= 0.06; Chi² = 19.99, df = : Z = 3.39 (P = 0.0007)	6 (P = 0.00	03); I² = 71	0%	+ -2	-1 0 1 2 Favours [mothers] Favours [fathers]

B: Forest plot comparing anxiety scores between mothers and fathers

Study or Subgroup	Std. Mean Difference	SE	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% Cl
Aggarwal 2018	1.28	0.27593	28.7%	1.28 [0.74, 1.82]	_
Cooper 2006	0.3908	0.21546	34.0%	0.39 [-0.03, 0.81]	
Duclos 2023	0.61	0.18014	37.3%	0.61 [0.26, 0.96]	−− −
Total (95% CI)			100.0%	0.73 [0.27, 1.18]	-
Heterogeneity: Tau ² = Test for overall effect:	= 0.11; Chi ² = 6.68, df = 2 : Z = 3.12 (P = 0.002)	(P = 0.04)	; I² = 70%	,	-2 -1 0 1 2 Favours [mothers] Favours [fathers]

Supplementary Materials 5: Sensitivity Analysis

Sensitivity analysis was performed by removing each study in turn from each meta-analysis comparison. Table S5.1 provides the details of the impact of this on the report mean differences and 95% confidence intervals.

Comparison	Outcome	Study deleted	Mean difference (95% Cl)
Case-control	Depression	All in	0.24 (0.11-0.38)
		Algorta 2018	0.30 (0.10-0.50)
		Cooper 2006	0.23 (0.11-0.35)
		<u>He 2020</u>	<u>0.23 (-0.01-0.47)*</u>
		Tan 2005	0.22 (0.07-0.4%)
Case-control	Parenting stress	All in	0.34 (0.20-0.49)
		Algorta 2018	0.26 (0.11-0.41)
		He 2020	0.42 (0.26-0.59)
		Tan 2005	0.36 (0.15-0.56)
Mothers-fathers	Depression	All in	0.42 (0.18-0.66)
		Cooper 2006	0.40 (0.15-0.65)
		Duclos 2003	0.34 (0.12-0.56)
		Lim 2021	0.53 (0.36-0.69)
		Schwarte 2017	0.39 (0.12-0.67)
		Sengupta 2017	0.41 (0.15-0.67)
		Sung 2019	0.43 (0.17-0.68)
		Tan 2005	0.44 (0.16-0.71)
Mothers-fathers	Anxiety	All in	0.73 (0.17-1.18)
		Aggarwal 2018	0.52 (0.25-0.79)
		Cooper 2006	0.91 (0.26-1.57)
		<u>Duclos 2023</u>	<u>0.82 (-0.05-1.69)*</u>

*95% CI crosses zero and no longer statistically significant at p<0.05

For case-control depression, study characteristics are:

Study	n	CYP condition	Country	Measure	Significant difference?
Algorta 2018	612	Bipolar	UK	GBI	No
Cooper 2006	215	Anxiety	UK	SCID	Yes
He 2020	521	ODD	China	CESD	Yes
Tan 2005	141	Depression	Malaysia	BDI	No

For mother-father anxiety, study characteristics are:

Study	n	CYP condition	Country	Measure	Significant difference?
Aggarwal 2018	32	ODD	India	HAMA	Yes
Cooper 2006	215	Anxiety	UK	SCID	No
Duclos 2023	135	Anorexia	France	HADS	Yes