

Meta-Analyses of the Relationships Between Family Systems Practices, Parents' Psychological Health, and Parenting Quality: Supplemental Report

Carl J. Dunst  
Senior Research Scientist  
Orelena Hawks Puckett Institute  
Asheville, North Carolina, USA  
[cdunst@puckett.org](mailto:cdunst@puckett.org)

This supplemental report includes additional information about the methodology and sources of data for the *Meta-Analyses of the Relationships Between Family Systems Practices, Parents' Psychological Health, and Parenting Quality* (Dunst, 2023). The supplemental report includes a brief description of the applied family systems theory that guided the conduct of the meta-analyses (Dunst, 2017, 2022b), a description of how family systems practices are hypothesized to be related to parents' psychological health and parenting quality, the foundations for how parents' psychological health is expected to be related to parenting quality, and the search strategy and results for identifying studies for investigating the relationships between parents' psychological health and parenting quality in households with children with identified disabilities, medical conditions, or at-risk for poor outcome conditions. Examples of psychological health and parenting quality measures that were used in the psychological health-parenting quality studies are also reported. The studies in the final meta-analysis of the relationships between different types of parents' psychological health (general health, depression, stress, well-being, caregiving burden, and parenting stress) and different types of parenting quality) parenting beliefs, parent involvement in children's learning and education, and parenting behavior and practices) are included in the supplemental report.

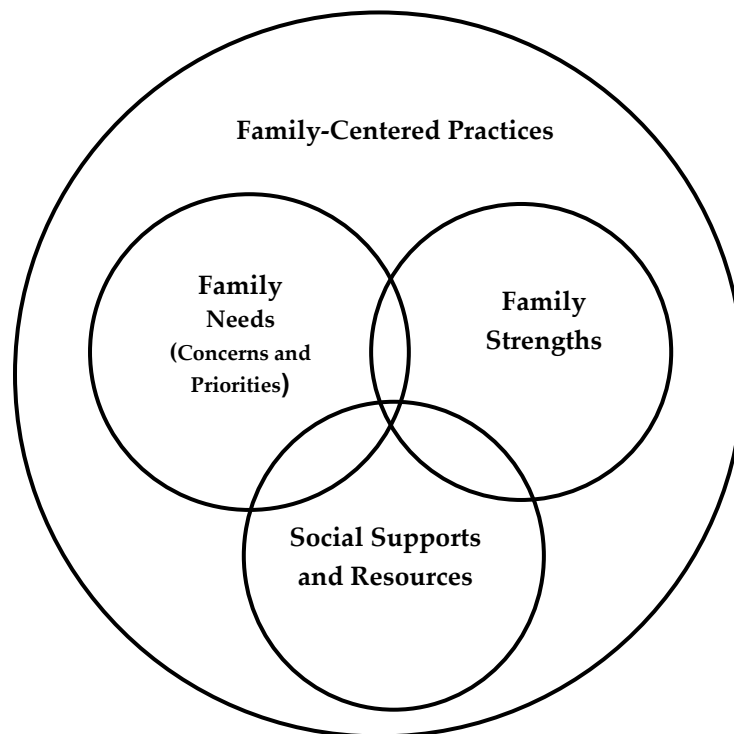
### **Applied Family Systems Intervention Model**

Figure 1 shows the family systems intervention model that has been the focus of research and practice by the author and his colleagues. The model includes four components: Family needs (concerns and priorities), the resources and social supports for needs satisfaction, family and family member strengths used to obtain resources and supports, and practitioner use of family-centered practices to build and strengthen family capacity to use strengths to procure needed resources and supports (see e.g., Dunst, 2000, 2017, 2022b; Dunst et al., 1988, 1994).

Different family and social systems models were used to develop the family systems intervention model where each of the components is hypothesized to be related to improved parent, family, parent-child, and child behavior, development, and well-being (e.g., Broderick, 1993; Bronfenbrenner, 1979; Johnson & Ray, 2016; Kerig, 2019). Research syntheses of studies of each of the intervention components indicate that a large number of unmet family needs are associated with poor functioning and that the presence and use of the other three practices are associated with positive functioning (see Dunst, 2023, for results from these syntheses). Results from structural equation modeling (Dunst, 2020; Dunst et al., 2007) and meta-analytic structural equation modeling (Dunst et al., 2019; Dunst & Trivette, 2009; Trivette et al., 2010) studies

show that the four family systems model practices are both directly and indirectly related to parent, family, and child functioning mediated by parents' belief appraisals and parents' psychological health.

Findings reported in Dunst (2023) extend this research by examining the relationships between parents' psychological health and parenting quality. The study also includes analyses to determine if parents' psychological health mediates the relationships between the core family systems intervention practices (needs, supports, resources, and strengths) and parenting quality. This supplemental report includes the procedures for identifying relevant studies, data coding and analysis, and the raw data that was used to conduct analyses of the relationships between different dimensions of parents' psychological health and parenting quality. The meta-analysis was conducted to address the "lack of understanding regarding the [relationships] between specific dimensions of parental mental health and parenting" and mechanisms for understanding how family systems intervention variables were directly and indirectly related to parenting quality as described in the call for papers for the special issue of IJERPH on *Parenting and Mental Health*.



**Figure 1.** Major components of the applied family systems intervention practices model.

### Sources of Data

The data for the relationships between parents' psychological health and parenting quality came from two sources: (a) meta-analyses of studies of the relationships between family needs (Dunst, 2022d), family social support (Dunst, 2022a, 2022c, 2022e), family resources

(Dunst, 2021b, 2021c, 2022f), family strengths (Dunst, 2021a, 2021d; Dunst et al., 2021), and either or both parents' psychological health and parenting quality and (b) a meta-analysis of the relationships between parents' psychological health and parenting quality (Dunst, 2023). The search strategies and results for each of the family systems meta-analyses are included in the published reports. This supplemental report includes information for understanding the conduct of the meta-analyses of the relationships between parents' psychological health and parenting quality.

### Search Strategy

Four primary and four secondary search sources were used to locate relevant studies. The four primary sources were PsycNET, ProQuest Central, PubMed, and Educational Resource Information Center (ERIC). The secondary search sources were Google Scholar, Bielefeld Academic Search Engine (BASE), COncecting REpositories (CORE) search engine, and the Directory of Open Access Journals (DOAJ) search engine. Controlled vocabulary searches were used in the four primary search sources and natural language searches were used in both the primary and secondary search sources.

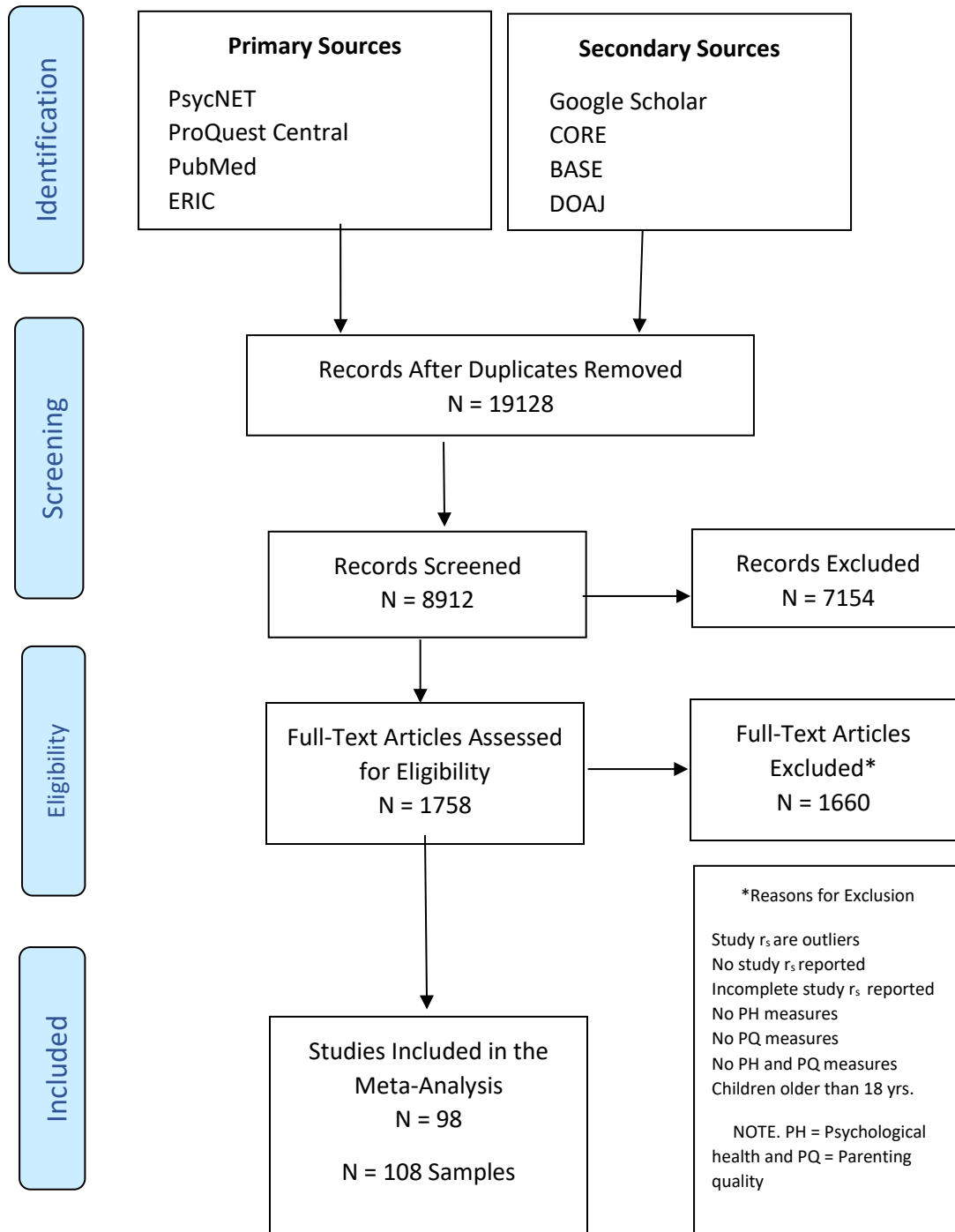
All searches included both psychological health terms and parenting quality terms. The psychological health terms included but were not limited to *psychological health, depression, stress, stressful life events, distress, anxiety, well-being, quality of life, positive affect, negative affect, parenting stress, parenting distress, caregiver burden, caregiving burden, and caregiving strain*. Searches were also conducted using the names of the psychological health measures in the different family systems meta-analyses cited above. The parenting quality terms included but were not limited to *parenting quality, parenting beliefs, parenting self-efficacy, parenting competence, parenting involvement, parental involvement, parenting engagement, parent-child engagement, parent-child activities, child routines, family routines, parenting styles, parent-child interactions, parenting responsiveness, and parenting sensitivity*. Searches also included the names of the parenting scales in the family systems meta-analyses.

In those cases where searches in any one database for the combination of psychological health and parenting quality terms resulted in more than 2000 results, the terms *developmental disabilities, identified disabilities, special needs children, special health care needs, medical conditions, chronic health conditions, and at-risk children* were added to delimit the search results.

### Search Results

Figure 2 shows the PRIMSA flow chart for the results from the literature searches. More than half of the nonduplicate records were excluded for not meeting inclusion criteria (see Dunst 2023). The records excluded during the screening phase were primarily because the report did not include a study of the relevant variables. The records excluded when full-text articles were assessed for eligibility were for the reasons listed in Figure 2. For example, studies were excluded when all of the sizes of effect between the psychological health and parenting quality measures were outliers. Studies that included both outliers and nonoutliers were included but the

nonoutliers for specific psychological health-parenting quality relationships were retained for further analysis.



**Figure 2.** Flow chart for the identification of parenting quality studies. (Adapted from Moher et., 2009).

Ninety-eight studies met the inclusion criteria which are listed in Table 1. There were 108 independent samples of study participants. These samples were considered the number of studies for the meta-analysis of the relationships between parents' psychological health and parenting quality.

Table 1 shows selected characteristics of the studies. The table includes the country where the studies were conducted, the type of research report (peer-reviewed vs. non-peer-reviewed), the primary study participants and the percentage of the samples, the children's conditions (at-risk for poor outcomes, Autism Spectrum Disorders, behavior problems, developmental disabilities, medical conditions), and the ages of the children of the study participants.

Table 2 includes examples of the parents' psychological health measures and parenting quality measures that were the focus of analysis. The six health dimensions were general psychological health, depression, personal stress, well-being, parenting stress, and caregiving burden. The targets of appraisals of the latter two dimensions were child-related whereas the other dimensions were nonchild-specific. The three parenting quality measures were parenting beliefs, parental engagement, and parenting behavior and practices.

All of the psychological health measures, and both the parenting belief and parent involvement measures were completed by the study participants. The parenting behavior and practices measures include both self-report scales and investigator-administered observational scales of parenting behavior and practices.

### **Methods of Analysis**

*Meta-Essentials* was used to perform the meta-analyses of the relationships between the different dimensions of parents' psychological health and the different dimensions of parenting quality (Suurmond et al., 2017; Van Rhee et al., 2015). Separate analyses were conducted for the relationships between each psychological health measure and each parenting quality measure. Preliminary analyses were conducted to identify and remove outliers and influential cases (Viechtbauer & Cheung, 2010). This was done in a stepwise manner where the most extreme cases were removed first, the analyses rerun, and the next most extreme cases removed. This procedure was used until all outliers and influential cases were deleted.

The *Meta-Essentials* Excel Spreadsheets for the relationships between the six psychological health measures and the parenting beliefs, involvement, and parenting behavior and practices measures are included in Tables 3, 4, and 5 respectively. The input for the different pairwise combinations was the correlation coefficient and sample size reported in each study. The methods of analysis for the main effects and moderating effects are described in Dunst (2023).

**Table 1**

Selected Characteristics of the Studies of the Relationships Between Parents' Psychological Health and Parenting Quality

Study	Country	Type of Report <sup>a</sup>	Primary Sample <sup>b</sup>	% of Sample	Child Condition <sup>c</sup>	Child Age (Years)
Almand (2004)	USA	MT	Mothers	100	DD	2-6
Anderson (2015)	USA	JA	Mothers	94	AR	4-6
Arnold et al. (2008)	USA	JA	Mothers	96	AR	3-5
Baker and Iruka (2013)	USA	JA	Mothers	100	AR	4-6
Bax (2005) Sample 1	Canada	DD	Mothers	100	LR	2-5
Bax (2005) Sample 2	Canada	DD	Fathers	100	LR	2-5
Benson (2015)	USA	JA	Mothers	100	ASD	7-14
Biondic (2019)	Canada	DD	Mothers	57	DD	13-18
Bishop (2016)	USA	MT	Mothers	91	MC	1-3
Bradley et al. (2023)	USA	JA	Mothers	91	ASD	<1-18
Brody and Flor (1997)	USA	JA	Mothers	100	AR	6-9
Brody et al. (2006)	USA	JA	Mothers	100	AR	11
Cantwell et al. (2014)	Ireland	JA	Mothers	91	DD	<1-18
Cardenas (2020)	USA	DD	Mothers	100	LR	<1-6
Carreras et al. (2019)	USA	JA	Mothers	92	AR	3-5
Cejas et al. (2021)	USA	JA	Mothers	100	HL	<1-5
Cekic and Karageyik (2021)	Turkey	JA	Mothers	59	AR	8-16
Chairinkam et al. (2021)	Thailand	JA	Mothers	100	MC	1-6
Chen et al. (2022)	China	JA	Mothers	100	ASD	2-15
Chiel (2018)	USA	DD	Mothers	100	ASD	2-6
Chisholm et al. (2014)	UK	JA	Mothers	100	MC	4-8
Collins-Allen (2006)	USA	DD	Mothers	100	DD	2-5
Comfort (1987) Sample 1	USA	CP	Mothers	100	DD/AR	<1-3
Comfort (1987) Sample 2	USA	CP	Fathers	100	DD/AR	<1-3
Cooke (2010)	USA	DD	Mothers	84	DD	2-4
Dahl (1993)	USA	DD	Mothers	100	BP	3-8
Dinehart et al. (2006)	USA	JA	Mothers	55	MC	1-3
Dissanayake et al. (2020)	Australia	JA	Mothers	84	ASD	6-16
Dubriwny and Hellman (2010)	USA	RR	NR	---	AR	NR
Dunst (1985) Study 3	USA	JA	Mothers	94	DD/AR	<1-7
Dunst (1985) Study 4	USA	JA	Mothers	79	DD	<1-5
Dunst (1985) Study 5	USA	JA	Mothers	74	DD	<1-5
Dunst (1985) Study 6	USA	JA	Mothers	85	DD	2-17
Dunst and Trivette (1988)	USA	BC	Mothers	82	DD	<1-5
Ehrlick (2004)	USA	DD	Mothers	63	BP	4-8
Ellis (2019)	UK	DD	Mothers	89	DD	4-17
Emmen et al. (2013)	Netherlands	JA	Mothers	100	AR	5-6
Equihua (2010)	USA	MT	Mothers	100	AR	6-10
Fenning et al. (2014) Sample 1	USA	JA	Mothers	100	DD	5
Fenning et al. (2014) Sample 2	USA	JA	Fathers	100	DD	5
Fiese et al. (2008)	USA	JA	Mothers	93	MC	5-13
Foster et al. (2010)	USA	JA	Mothers	87	MC	3-18
Frank et al. (2017)	USA	JA	Mothers	88	BP	6-18
Gao et al. (2012)	China	JA	Mothers	100	LR	NA
Garcia-Lopez et al. (2016) Sample 1	Spain	JA	Mothers	100	ASD	3-17
Garcia-Lopez et al. (2016) Sample 2	Spain	JA	Fathers	100	ASD	3-17
Garland et al. (2013)	USA	JA	Mothers	90	BP	3-5
Gartstein and Sheeber (2004)	USA	JA	Mothers	100	BP	3-6

Table 1, continued.

Study	Country	Type of Report	Primary Sample	% of Sample	Child Condition	Child Age (Years)
Gavidia-Payne and Stoneman (1997) Sample 1	USA	JA	Mothers	100	DD	<1-5
Gavidia-Payne and Stoneman (1997) Sample 2	USA	JA	Fathers	100	DD	<1-5
Glenn et al. (2008)	UK	JA	Mothers	100	DD	1-5
Huang et al. (2017)	Uganda	JA	Mothers	82	AR	3-8
Huang et al. (2018)	Ghana	JA	Mothers	64	AR	3-8
Jandric and Kurtovic (2021)	Croatia	JA	Mothers	74	DD	7-14
Jordan (2003)	USA	DD	Mothers	100	BP	6-12
Karlioglu and Sari (2019)	Turkey	JA	Fathers	100	DD	<1-21
Kelly et al. (2011)	USA	JA	GM	100	BP	2-16
Kilmer et al. (2010)	USA	JA	NR	NR	DD	4-17
Kim (2007)	Korea	DD	Mothers	100	AR	3-5
Kohl et al. (2000)	USA	JA	Mothers	97	AR	5-6
Lee et al. (2009)	USA	JA	Mothers	92	AR	4-10
Letiecq and Koblinsky (2003)	USA	JA	Fathers	100	AR	3-5
Lindsey and Barry (2018)	USA	JA	Mothers	75	ASD	4-11
Mahmoud et al. (2022)	Egypt	JA	Mothers	73	MC	<1-18
McRae et al. (2020)	USA	JA	Mothers	74	DD	6-12
Merson (2012)	USA	DD	Mothers	100	DD	5-13
Mitchell (2011)	Australia	RR	Mothers	91	MC	2-12
Nievar et al. (2008)	USA	CP	Mothers	100	AR	3-6
Okado et al. (2014)	USA	JA	Mothers	96	AR	4-6
Palermo et al. (2017)	USA	JA	Mothers	100	AR	<1-3
Piehler et al. (2014)	USA	JA	Mothers	100	BP	5-8
Platt et al. (2014) Sample 1	USA	JA	Mothers	100	DD	NR
Platt et al. (2014) Sample 2	USA	JA	Fathers	100	DD	NR
Podjarny (2007)	Canada	MT	Mothers	91	ASD	3-6
Quinn (2017)	Australia	HT	Mothers	91	ASD	NR
Raisanen (2013)	USA	MT	Mothers	100	AR	4-17
Richter et al. (2018)	Germany	JA	Mothers	100	LR	5-7
Robinson (2019)	Canada	DD	Mothers	96	ASD	4-18
Robokos (2012)	USA	BK	Mothers	99	AR	0-1
Rodenburg et al. (2007)	Netherlands	JA	Mothers	89	MC	4-16
Rogers et al. (2009)	Canada	JA	Mothers	91	DD	8-12
Rudelli et al. (2021)	Switzerland	JA	Fathers	100	ASD	3-16
Sajedi et al. (2020)	Iran	JA	Mothers	100	AR	3-6
Santiago (2019)	USA	DD	Mothers	91	ASD	5-10
Semke et al. (2010)	USA	JA	Mothers	89	BP	5-9
Seymour et al. (2015)	Australia	JA	Mothers	100	LR	0-1
Shackell (2011)	Canada	MT	NR	---	DD	3-12
Shamash (2011)	USA	DD	Mothers	89	ASD	2-6
Shine (2014)	Canada	MT	Mothers	100	BP	4-7
Shoshani and Yaari (2022)	Israel	JA	Mothers	55	LR	2-12
Taraban et al. (2017) Sample 1	USA	JA	Mothers	91	AR	2-3
Taraban et al. (2017) Sample 2	USA	JA	Mothers	91	AR	2-3
Taylor et al. (2021)	UK	JA	Mothers	89	ASD	2-11
R. D. Taylor et al. (2012)	USA	JA	Mothers	100	BP	10-18
Z. E. Taylor et al. (2012)	USA	JA	Mothers	100	AR	8-12
Tichovolsky et al. (2013)	USA	JA	Mothers	95	BP	3-5
Tobing (2004)	USA	DD	Mothers	100	DD	2-18
Trivette and Dunst (1992)	USA	JA	Mothers	100	DD	<1-5

**Table 1**, continued.

<b>Study</b>	<b>Country</b>	<b>Type of Report</b>	<b>Primary Sample</b>	<b>% of Sample</b>	<b>Child Condition</b>	<b>Child Age (Years)</b>
Wade et al. (2008)	USA	JA	Mothers	96	DD	3-7
Weiss and Lunsky (2011)	Canada	JA	Mothers	91	ASD	4-24
Whittaker et al. (2011)	USA	JA	Mothers	100	AR	<1-3
Winstone et al. (2021)	USA	JA	Mothers	100	AR	1-3
Wood (2012)	USA	DD	Mothers	50	AR	12-20
Woods (2011)	USA	DD	Mothers	100	MC	<1-3
Yeung and Chan (2010)	Hong Kong	JA	Mothers	80	AR	5-9
Yurdusen et al. (2013)	Turkey	JA	Mothers	100	BP	1-6

NOTES. The percentage of primary study participants and child age range were estimated in some studies based on information included in the research reports. NR = Not reported or insufficient information was provided to estimate child age range.

<sup>a</sup>BC = Book chapter, BK = Book, CP = Conference presentation, DD = Doctoral dissertation, HT = Honors thesis, JT = Peer-reviewed journal article, MA = Master's thesis, and RR = Unpublished research report.

<sup>b</sup>GM = Grandmothers.

<sup>c</sup>AR = At-risk for poor outcomes, ASD = Autism spectrum disorders, BP = Behavior problems (includes emotional disturbances), DD = Developmental disabilities (includes ADHD, brain injury, cerebral palsy, Down syndrome, hearing loss, intellectual disabilities, and motor delays), LR = Low-risk or no risk for poor outcomes, and MC = Medical conditions (includes asthma, cancer, cocaine-exposed, congenital heart disease, diabetes, epilepsy, leukemia, prematurity, and Smith-Magenis Syndrome).



**Table 2**

Examples of the Scales for Measuring Parents' Psychological Health and Parenting Quality

<b>Psychological Health Measures</b>	
<b>General Health</b>	<b>Source</b>
Brief Symptom Inventory*	Derogatis (1993)
Depression Anxiety Stress Scale	Lovibond and Lovibond (1995)
General Health Questionnaire	Goldberg (1978)
Profile of Mood States Scale	Loor and McNair (1988)
Symptom Checklist-90-R	Derogatis (1992)
<b>Depression</b>	
Beck Depression Scale	Beck et al. (1961)
Brief Symptom Inventory-Depression Subscale	Derogatis (1993)
Center for Epidemiological Studies Depression Scale*	Radloff (1977)
Depression Anxiety Stress Scale-Stress Subscale	Lovibond and Lovibond (1995)
<b>Personal Stress</b>	
Brief Family Distress Scale	Weiss and Lunsky (2011)
Family Stress Scale	Quittner et al. (1991)
Perceived Stress Scale*	Cohen et al. (1983)
<b>Well-Being</b>	
Affect Balance Scale	Bradburn (1969)
Life Orientation Test	Scheier et al. (1994)
Satisfaction with Life Scale*	Diener et al. (1985)
World Health Organization Quality of Life Scale	World Health Organization (1996)
<b>Parenting Stress</b>	
Parental Stress Scale	Berry and Jones (1995)
Parenting Stress Index*	Abidin (1997)
Questionnaire on Resources and Stress (QRS)	Holroyd (1974)
Questionnaire on Resources and Stress-Short Form*	Friedrich et al. (1983)
Stress Index for Parents	Sheras et al. (1998)
<b>Caregiving Burden</b>	
Caregiver Strain Questionnaire	Brannan et al. (1997)
Daily Parenting Hassles Scale	Crnic and Greenberg (1990)
Impact on Family Scale*	Stein and Jessop (2003)
QRS-Time Demands Subscale	Holroyd (1974)
Strengths and Difficulties Questionnaire-Difficulties Subscale	Goodman (1997)
<b>Parenting Quality Measures</b>	
<b>Parenting Beliefs</b>	
Early Intervention Parenting Self-Efficacy Scale	Guimond et al. (2008)
Parent Efficacy for Child Success Scale	Hoover-Dempsey and Sandler (1997)
Parental Efficacy Beliefs Scale	Caprara et al. (2006)
Parental Locus of Control Scale	Campis et al. (1986)
Parental Self-Efficacy Scale	Desjardin (2003)
Parenting Sense of Competence Scale*	Gibaud-Wallston and Wandersman (2001)
<b>Parent Involvement</b>	
Alabama Parenting Questionnaire-Involvement Subscales	Shelton et al. (1996)
Child Routines Inventory	Sytsma et al. (2001)
Family Involvement Questionnaire*	Fantuzzo et al. (2000)
Family Routines Inventory	Jensen et al. (1983)
Home Observation of Measurement of the Environment (HOME)*	Caldwell and Bradley (1984)
Parent-Child Play Scale	Dunst (1986)
<b>Parenting Behavior and Practices</b>	
Alabama Parenting Scale*	Shelton et al. (1996)
Caregiver Styles of Interaction Scale	Dunst (2007)
Child-Parent Relationship Scale	Driscoll and Pianta (2011)
HOME Warmth Subscale	Caldwell and Bradley (1984)
Nursing Child Assessment Teaching Scale	Barnard (1978)

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**Table 2, continued.**

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<b>Parenting Behaviors and Practices, continued.</b>	<b>Source</b>
Parent Behavior Inventory	Lovejoy et al. (1999)
Parent-Child Interaction Rating Scales	Sosinsky et al. (2004)
Parent-Child Relationship Inventory	Girard (1994)
Parenting Styles and Dimensions Questionnaire	Robinson et al. (2001)

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\*Indicates the most frequently used scales for the different psychological health and parenting quality constructs.

**Table 3**  
**Meta-Essentials Excel Spreadsheet for the Relationships Between Parents' Psychological Health and Parenting Beliefs**

#	Study name	Include study	Correlation	Sample size	Sufficient data	Subgroup
<b>Caregiving Burden</b>						
1	Almand (2004)	Yes	-0.23	64	Yes	belburd
2	Biehler et al. (2019)	Yes	-0.39	246	Yes	belburd
3	Bishop (2016)	Yes	-0.27	69	Yes	belburd
4	Chairinkam et al. (2021)	Yes	-0.33	90	Yes	belburd
5	Ellis (2019)	Yes	-0.38	18	Yes	belburd
6	Gartstein & Sheeber (2004)	Yes	-0.42	69	Yes	belburd
7	Karlioglu & Sari (2019)	Yes	-0.38	100	Yes	belburd
8	Mahmound et al. (2022)	Yes	-0.37	200	Yes	belburd
9	Rodenburg et al. (2007)	Yes	-0.43	91	Yes	belburd
10	Rudelli et al. (2021)	Yes	-0.22	63	Yes	belburd
11	Shamish (2011)	Yes	-0.41	72	Yes	belburd
12	Winstone et al. (2011)	Yes	-0.25	322	Yes	belburd
<b>Depression</b>						
13	Foster et al. (2010) Mothers	Yes	-0.46	97	yes	beldep
14	Foster et al. (2010) Fathers	Yes	-0.34	15	yes	beldep
15	Garcia-Lopez (2016) Mothers	Yes	-0.40	76	yes	beldep
16	Garcia-Lopez (2016) Fathers	Yes	-0.46	76	yes	beldep
17	Kim (2007)	Yes	-0.49	408	yes	beldep
18	Lee et al. (2009)	Yes	-0.25	290	yes	beldep
19	Mahmoud et al. (2022)	Yes	-0.32	200	yes	beldep
20	Palermo et al. (2017)	Yes	-0.47	714	yes	beldep
21	Rodenburg et al. (2007)	Yes	-0.31	91	yes	beldep
22	Yurdusen et al. (2013)	Yes	-0.46	204	yes	beldep
<b>General Health</b>						
23	Bishop (2016)	Yes	-0.34	69	yes	belgh
24	Cantwell et al. (2014)	Yes	-0.26	167	yes	belgh
25	Dissanayake et al. (2020)	Yes	-0.33	58	yes	belgh
26	Gaoet al. (2012)	Yes	-0.29	194	yes	belgh
27	Lindsey & Barry (2018)	Yes	-0.20	157	yes	belgh
28	Mitchell (2015)	Yes	-0.36	52	yes	belgh
29	Piehler et al. (2014)	Yes	-0.30	246	yes	belgh
<b>Parenting Stress</b>						
30	Cekic & Karageyik (2021)	Yes	-0.37	492	yes	belpsi
31	Chen (2022)	Yes	-0.37	263	Yes	belpsi
32	Chiel (2018)	Yes	-0.38	42	Yes	belpsi
33	Collins-Allen (2006)	Yes	-0.41	48	Yes	belpsi
34	Ehrlick (2004)	Yes	-0.37	40	Yes	belpsi
35	Garcia-Lopez (2016) Mothers	Yes	-0.32	76	Yes	belpsi
36	Garcia-Lopez (2016) Fathers	Yes	-0.36	76	Yes	belpsi
37	Kim (2007)	Yes	-0.50	408	Yes	belpsi
38	Palermo et al. (2017)	Yes	-0.52	714	Yes	belpsi
39	Piehler et al. (2014)	Yes	-0.34	246	Yes	belpsi
40	Raisanen (2013)	Yes	-0.38	141	Yes	belpsi
41	Semke et al. (2010)	Yes	-0.59	207	Yes	belpsi

Table 3, continued.						
#	Study name	Include study	Correlation	Sample size	Sufficient data	Subgroup
Parenting Stress, continued.						
42	Shine (2014)	Yes	-0.30	28	Yes	belpsi
43	Tobing (2004)	Yes	-0.52	97	Yes	belpsi
44	Woods (2011)	Yes	-0.51	72	Yes	belpsi
45	Yeung & Chan (2010)	Yes	-0.45	504	Yes	belpsi
Personal Stress						
46	Cantwell et al. (2014)	Yes	-0.47	167	yes	belstres
47	Cejas et al. (2021)	Yes	-0.45	188	yes	belstres
48	Foster et al. (2010) Mothers	Yes	-0.25	97	yes	belstres
49	Foster et al. (2010) Fathers	Yes	-0.42	15	yes	belstres
50	Garcia-Lopez (2016) Mothers	Yes	-0.35	76	yes	belstres
51	Garcia-Lopez (2016) Fathers	Yes	-0.28	76	yes	belstres
52	Jandric & Kurtovic (2021)	Yes	-0.29	107	yes	belstres
53	Robinson (2019)	Yes	-0.44	249	yes	belstres
54	Shamash (2011)	Yes	-0.44	72	yes	belstres
55	Tobing (2004)	Yes	-0.35	97	yes	belstres
56	Yurdusen et al. (2013)	Yes	-0.41	204	yes	belstres
Well-Being						
57	Dubriwny et al. (2010)	Yes	0.31	156	yes	belwb
58	Foster et al. (2010) Mothers	Yes	0.43	97	yes	belwb
59	Garcia-Lopez (2016) Mothers	Yes	0.50	76	yes	belwb
61	Garcia-Lopez (2016) Fathers	Yes	0.41	76	yes	belwb
62	Quinn (2017)	Yes	0.34	96	yes	belwb
63	Shackell (2011)	Yes	0.32	30	yes	belwb
64	Shoshani (2022)	Yes	0.38	832	yes	belwb
65	Taylor et al. (2021)	Yes	0.58	200	yes	belwb

<b>Table 4</b>							
<b>Meta-Essentials Excel Spreadsheet for the Relationships Between Parents' Psychological Health and Parental Involvement</b>							
#	Study name	Include study	Correlation	Sample size	Sufficient data	Subgroup	Involvement Setting
<b>Caregiving Burden</b>							
1	Benson (2015)	Yes	-0.27	113	yes	invburd	School
2	Benson (2015)	Yes	-0.26	113	yes	invburd	Home
3	Comfort (1987) Mothers	Yes	-0.21	24	yes	invburd	Home
4	Comfort (1987) Fathers	Yes	-0.19	24	yes	invburd	Home
5	Dinehart et al. (2006)	Yes	-0.28	56	yes	invburd	Home
6	Santiago (2019)	Yes	-0.12	68	yes	invburd	School
<b>Depression</b>							
7	Brody & Flor (1997)	Yes	-0.16	156	yes	invdep	Home
8	Equihua (2010)	Yes	-0.18	43	yes	invdep	School
9	Gavidia-Payne (1997) M	Yes	-0.26	75	yes	invdep	School
10	Gavidia-Payne (1997) F	Yes	-0.17	67	yes	invdep	School
11	Huang et al. (2018)	Yes	-0.18	262	yes	invdep	School
12	Kohl et al. (2000)	Yes	-0.29	331	yes	invdep	School
13	Kohl et al. (2000)	Yes	-0.28	331	yes	invdep	Home
14	Lee et al. (2009)	Yes	-0.12	290	yes	invdep	Home
15	Nievar et al. (2008)	Yes	-0.21	96	yes	invdep	Home
16	Okado et al. (2014)	Yes	-0.11	117	yes	invdep	Home
17	Okado et al. (2014)	Yes	-0.18	117	yes	invdep	School
18	Robokos (2007)	Yes	-0.16	1807	yes	invdep	Home
19	Sajedi et al. (2020)	Yes	-0.18	1067	yes	invdep	Home
<b>General Health</b>							
20	Arnold et al. (2008)	Yes	-0.15	163	yes	invgh	School
21	Garland et al. (2013)	Yes	-0.20	153	yes	invgh	Home
22	Huang et al. (2018)	Yes	-0.14	262	yes	invgh	School
23	Jordan (2003)	Yes	-0.28	153	yes	invgh	Home
24	Kelley et al. (2011)	Yes	-0.17	230	yes	invgh	Home
25	McRae et al. (2020)	Yes	-0.13	300	yes	invgh	Home
26	Seymour et al. (2015)	Yes	-0.25	224	yes	invgh	Home
27	Tichovolsky et al. (2013)	Yes	-0.13	129	yes	invgh	School
<b>Parenting Stress</b>							
28	Cardenas (2020)	Yes	-0.14	632	yes	invpsi	Home
29	Collins-Allen (2006)	Yes	-0.15	48	yes	invpsi	School
31	Glenn et al. (2008)	Yes	-0.25	80	yes	invpsi	Home
32	Okado et al. (2014)	Yes	-0.17	117	yes	invpsi	Home
33	Okado et al. (2014)	Yes	-0.20	117	yes	invpsi	School
34	Robokos (2007)	Yes	-0.24	1807	yes	invpsi	Home
35	Semke et al. (2010)	Yes	-0.20	207	yes	invpsi	Home
36	Semke et al. (2010)	Yes	-0.20	207	yes	invpsi	School
37	Unger et al. (2001)	Yes	-0.20	104	yes	invpsi	School
38	Woods (2011)	Yes	-0.26	72	yes	invpsi	Home
<b>Personal Stress</b>							
39	Cejas et al. (2021)	Yes	-0.32	188	yes	invstres	Home
40	Equihua (2001)	Yes	-0.17	43	yes	invstres	School
41	Jordan (2003)	Yes	-0.25	153	yes	invstres	Home

Table 4, continued.							
Personal Stress, continued.							
42	Kelley et al. (2011)	Yes	-0.17	230	yes	invstres	Home
43	Lee et al. (2009)	Yes	-0.32	290	yes	invstres	Home
44	McRae et al. (2020)	Yes	-0.13	300	yes	invstres	Home
45	Sajedi et al. (2020)	Yes	-0.11	1067	yes	invstres	Home
Well-Being							
46	Cardenas (2020)	Yes	0.24	632	yes	invwb	School
48	Huang et al. (2018)	Yes	0.14	262	yes	invwb	School
49	Richter et al. (2018)	Yes	0.25	291	yes	invwb	Home
50	Shoshani & Yaari (2022)	Yes	0.38	832	yes	invwb	Home
51	Z. E. Taylor et al. (2012)	Yes	0.30	674	yes	invwb	Home

<b>Table 5 Meta-Essentials Excel Spreadsheet for the Relationships Between Parents' Psychological Health and Parenting Behavior and Practices</b>						
#	Study name	Include study	Correlation	Sample size	Sufficient data	Subgroup
<b>Caregiving Burden</b>						
1	Comfort (1987) Fathers	Yes	-0.39	24	Yes	pbpburd
2	Dinehart et al. (2006)	Yes	-0.28	56	Yes	pbpburd
3	Fenning et al. (2014) Mothers	Yes	-0.18	61	Yes	pbpburd
4	Fenning et al. (2014) Fathers	Yes	-0.21	49	Yes	pbpburd
5	Fiese et al. (2008)	Yes	-0.27	60	Yes	pbpburd
6	Frank et al. (2017)	Yes	-0.47	979	Yes	pbpburd
7	Kilmer et al. (2010)	Yes	-0.22	100	Yes	pbpburd
8	Platt et al. (2014) Fathers	Yes	-0.33	150	Yes	pbpburd
9	Platt et al. (2014) Mothers	Yes	-0.21	188	Yes	pbpburd
10	Rodenburg et al. (2007)	Yes	-0.46	91	Yes	pbpburd
11	Weiss & Lunskey (2011)	Yes	0.26	164	Yes	pbpburd
<b>Depression</b>						
12	Baker & Iruka (2013)	Yes	-0.21	246	Yes	pbpdep
13	Biondic (2019) Mothers	Yes	-0.38	61	Yes	pbpdep
14	Biondic (2019) Fathers	Yes	-0.06	61	Yes	pbpdep
15	Brody et al. (2006)	Yes	-0.23	172	Yes	pbpdep
16	Dahl (1993)	Yes	-0.19	61	Yes	pbpdep
17	Dunst (1985) Study 3	Yes	-0.20	59	Yes	pbpdep
18	Dunst (1985) Study 4	Yes	-0.28	64	Yes	pbpdep
19	Dunst (1988)	Yes	-0.26	73	Yes	pbpdep
20	Emmen et al. (2013)	Yes	-0.29	107	Yes	pbpdep
21	Huang et al. (2017)	Yes	-0.34	303	Yes	pbpdep
22	Huang et al. (2018)	Yes	-0.17	262	Yes	pbpdep
23	Lee et al. (2009)	Yes	-0.23	290	Yes	pbpdep
24	Letiecq & Kobinsky (2003)	Yes	-0.32	61	Yes	pbpdep
25	Okado et al. (2014)	Yes	-0.38	117	Yes	pbpdep
26	Robokos (2007)	Yes	-0.12	1807	yes	pbpdep
27	Rodenburg et al. (2007)	Yes	-0.31	91	Yes	pbpdep
28	Taradan et al. (2017) Sample 1	Yes	-0.19	526	Yes	pbpdep
29	Tichovolskyet al. (2013)	Yes	-0.13	129	Yes	pbpdep
30	Wade et al. (2008)	Yes	-0.15	198	Yes	pbpdep
31	Whittaker et al. (2011)	Yes	-0.19	114	Yes	pbpdep
32	Yurdusen et al. (2013)	Yes	-0.25	204	Yes	pbpdep
<b>General Health</b>						
33	Carreras et al. (2019)	Yes	-0.14	62	Yes	pbpgh
34	Chisholm et al. (2014)	Yes	-0.32	49	Yes	pbpgh
35	Dissanayake et al. (2020)	Yes	-0.43	58	Yes	pbpgh
36	Garland et al. (2013)	Yes	-0.12	153	Yes	pbpgh
37	Jordan (2003)	Yes	-0.27	153	Yes	pbpgh
38	Merson (2012)	Yes	-0.31	177	Yes	pbpgh
39	Mitchell (2011)	Yes	-0.40	52	Yes	pbpgh
40	Piehler et al. (2014)	Yes	-0.36	246	Yes	pbpgh
41	Seymour et al. (2014)	Yes	-0.50	224	Yes	pbpgh

Table 5, continued.						
#	Study name	Include study	Correlation	Sample size	Sufficient data	Subgroup
<b>Parenting Stress</b>						
42	Baker & Iruka (2013)	Yes	-0.31	246	Yes	pbppsi
43	Biondic (2019) Mothers	Yes	-0.43	61	Yes	pbppsi
44	Biondic (2019) Fathers	Yes	-0.35	61	Yes	pbppsi
45	Bradley et al. (2023)	Yes	-0.37	483	Yes	pbppsi
46	Cekic & Karageyik (2021)	Yes	-0.35	492	Yes	pbppsi
47	Chiel (2018)	Yes	-0.38	42	Yes	pbppsi
48	Cooke (2010)	Yes	-0.40	110	Yes	pbppsi
49	Mitchell (2011)	Yes	-0.30	52	Yes	pbppsi
50	Okado et al. (2014)	Yes	-0.29	117	Yes	pbppsi
51	Robokos (2007)	Yes	-0.18	1807	Yes	pbppsi
52	Rogers et al. (2009)	Yes	-0.20	103	Yes	pbppsi
53	Unger et al. (2011)	Yes	-0.11	104	Yes	pbppsi
54	Whittaker et al. (2011)	Yes	-0.40	114	Yes	pbppsi
<b>Personal Stress</b>						
55	Anderson (2015)	Yes	-0.52	127	Yes	pbpstres
56	Kilme et al. (2010)	Yes	-0.35	100	Yes	pbpstres
57	R. D. Taylor et al. (2012)	Yes	-0.32	200	Yes	pbpstres
58	Weiss & Lunsky (2011)	Yes	0.26	164	Yes	pbpstres
59	Wood (2012)	Yes	-0.25	146	Yes	pbpstres
60	Yurdusen et al. (2013)	Yes	-0.31	204	Yes	pbpstres
<b>Well-Being</b>						
61	Bax (2005) Mothers	Yes	0.27	130	Yes	pbpwb
62	Bax (2005) Fathers	Yes	0.45	130	Yes	pbpwb
63	Cooke (2010)	Yes	0.17	110	Yes	pbpwb
64	Dunst (1985) Study 5	Yes	0.15	63	Yes	pbpwb
65	Dunst (1985) Study 6	Yes	0.17	103	Yes	pbpwb
66	Huang et al. (2018)	Yes	0.13	262	Yes	pbpwb
67	Podjarny (2007)	Yes	0.31	18	Yes	pbpwb
67	Z. E. Taylor et al. (2012)	Yes	0.11	674	Yes	pbpwb
69	Trivette & Dunst (1992)	Yes	0.30	82	Yes	pbpwb



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