

**SYSTEMATIC REVIEW AND META-ANALYSIS OF THE RELATIONSHIPS
BETWEEN FAMILY SOCIAL SUPPORT AND PARENTING STRESS,
BURDEN, BELIEFS AND PRACTICES:
SUPPLEMENTAL REPORT**

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The systematic review and meta-analysis of the relationships between perceived family social support and parenting stress, caregiving burden, parenting beliefs, and parenting behavior and practices (Dunst, 2022b) evaluated basic tenets of Bronfenbrenner's contentions about parents' abilities to carry-out parenting responsibilities (Bronfenbrenner, 1979). The *Family Support Scale* total scale score was the independent variable in the research synthesis (Dunst et al., 1984a, 1984b). Seven parenting stress scales, eight caregiving burden scales, seven parenting belief scales, and eight parenting practices scales were the dependent measures in the research synthesis. Results from a companion research synthesis are reported in another source (Dunst, 2022a).

This supplemental report includes six tables. Table 1 includes selected characteristics of each of the studies in the systematic review and meta-analysis of the relationships between family social support and four different types of parenting behavior and practices (Dunst, 2022b). Table 2 includes selected characteristics of the parents and primary caregivers of children and adolescents birth to 18 years of age with and without identified disabilities or chronic health conditions.

Tables 3, 4, 5, and 6 include, respectively, the sample sizes and correlations between the *Family Support Scale* total scale scores and parenting stress, caregiving burden, parenting beliefs, and parenting practices measures. The tables also include the 95% confidence intervals for the correlation coefficients and the within and between study weights for computing average, weighted sizes of effect between perceived family social support and the parenting measures. The within-study weights are for each of the subdomain scales in each table and the between-study weights are for all studies of the same parenting construct (stress, burden, beliefs, practices) in each of the tables.

Study	N	Country	Source	Child Conditions
Allen & Knott (2016)	51	United Kingdom	Journal Article	Developmental coordination disorders
Almand (2004)	64	USA	Master's Thesis	Developmental disabilities
Anderson (2008)	824	USA	Journal Article	At-risk (Low-income families)
Austin (1998) Sample 1	54	South Africa	Master's Thesis	Cerebral palsy
Austin (1998) Sample 2	24	South Africa	Master's Thesis	Cerebral palsy
Black & Nitz (1996)	79	USA	Journal Article	At-risk (Adolescent mothers)
Blizzard et al. (2016)	44	USA	Journal Article	Emotional/behavioral disorders
Burrell et al. (1994)	53	USA	Journal Article	Developmental disabilities
Cantonis (2016)	110	USA	Dissertation	At-risk (Recent immigrants)
Cheesman (2009)	30	South Africa	Honor's Thesis	ADHD/Autism spectrum disorders
Chick (1998)	75	Canada	Master's Thesis	Diabetes
DeVries (2016)	44	USA	Dissertation	Autism spectrum disorders
Diamond (2005) Sample 1	114	Canada	Dissertation	Autism spectrum disorders
Diamond (2005) Sample 2	76	Canada	Dissertation	Autism spectrum disorders
Dunst (1985) Sample 1	137	USA	Journal Article	Developmental disabilities and delays
Dunst (1985) Sample 2	40	USA	Journal Article	Developmental disabilities and delays
Dunst (1985) Sample 3	59	USA	Journal Article	Developmental disabilities and delays
Dunst (1985) Sample 4	62	USA	Journal Article	Developmental disabilities and delays
Dunst (1985) Sample 5	52	USA	Journal Article	Developmental disabilities and delays
Dunst (1985) Sample 6	103	USA	Journal Article	Developmental disabilities and delays
Dyson (1997) Sample 1	30	Canada/USA	Journal Article	Developmental disabilities and delays
Dyson (1997) Sample 2	30	Canada/USA	Journal Article	Developmental disabilities and delays
Dyson (1997) Sample 3	32	Canada/USA	Journal Article	No disability, delay, or at-risk condition
Dyson (1997) Sample 4	32	Canada/USA	Journal Article	No disability, delay, or at-risk condition
Edmond et al. (2007)	31	Haiti	Journal Article	At-risk (Living in poverty)
Ellis (2020)	161	USA	Dissertation	Intellectual disabilities
Engelke (1991)	106	USA	Journal Article	Birth-related complications
Farmer et al. (2004)	83	USA	Journal Article	Chronic health conditions
Gavidia-Payne & Stoneman (1997) Sample 1	75	USA	Journal Article	Developmental disabilities
Gavidia-Payne & Stoneman (1997) Sample 2	67	USA	Journal Article	Developmental disabilities
Gousmets (2006)	22	New Zealand	Master's Thesis	Developmental disabilities
Hall (2008) Sample 1	50	USA	Dissertation	Autism spectrum disorders
Hall (2008) Sample 2	23	USA	Dissertation	Autism spectrum disorders
Harrington et al. (1998)	121	USA	Journal Article	At-risk (Low-income families)
Hassall et al. (2005)	46	United Kingdom	Journal Article	Intellectual disabilities
Ho (2013)	121	Taiwan	Dissertation	Developmental disabilities
Hooge (2010)	159	Canada	Master's Thesis	No disability, delay, or at-risk condition
Jones & Passey (2004)	48	United Kingdom	Journal Article	Developmental disabilities
Keller & Honig (2004) Sample 1	30	USA	Journal Article	Developmental disabilities
Keller & Honig (2004) Sample 2	30	USA	Journal Article	Developmental disabilities
Kelley et al. (2011)	230	USA	Journal Article	At-risk (Kinship care)
Kersh et al. (2006) Sample 1	67	USA	Journal Article	Developmental disabilities
Kersh et al. (2006) Sample 2	67	USA	Journal Article	Developmental disabilities
Lai (2013)	75	Taiwan	Dissertation	Autism spectrum disorders
Lesar et al. (1995)	48	USA	Journal Article	HIV infections
Letiecq & Koblinsky (2003)	61	USA	Journal Article	At-risk (Neighborhood violence)
McCarthy et al. (2006) Sample 1	39	Australia	Journal Article	Fragile X syndrome
McCarthy et al. (2006) Sample 2	28	Australia	Journal Article	Fragile X syndrome
McElvy (1987)	58	USA	Master's Thesis	Birth related complications
McStay et al. (2014) Sample 1	98	Australia	Journal Article	Autism spectrum disorders
McStay et al. (2014) Sample 2	98	Australia	Journal Article	Autism spectrum disorders
Mitchell et al. (2015) Sample 1	43	USA	Journal Article	Down syndrome
Mitchell et al. (2015) Sample 2	54	USA	Journal Article	Developmental disabilities
Ngo (2017)	167	USA	Dissertation	Developmental disabilities
Nolcheva & Trajkovski (2015)	35	Macedonia	Journal Article	Autism spectrum disorders
Palisano et al. (1993)	36	USA	Journal Article	Developmental motor delays
Phetrasuwon (2003)	108	USA	Dissertation	Autism spectrum disorders
Pipp-Siegel et al. (2002)	184	USA	Journal Article	Hearing loss
Robitaille (2012)	21	USA	Dissertation	At-risk (kinship care)
Rodgers (1993, 1998)	85	USA	Journal Article	No disability, delay, or at-risk condition

Table S1, continued

Study	N	Country	Source	Child Conditions
Rodrigues (2013)	14	Portugal	Honor's Thesis	Rare diseases or disorders
Rutstein (2014)	25	USA	Dissertation	Autism spectrum disorders
Shackell (2011)	30	Canada	Master's Thesis	Developmental disabilities
Shaffer (2012)	75	USA	Dissertation	Autism spectrum disorders
Small (2012) Sample 1	93	USA	Dissertation	Developmental disabilities
Small (2012) Sample 2	96	USA	Dissertation	No disability, delay, or at-risk condition
Smalls-Raymond (2006)	76	USA	Dissertation	Developmental disabilities
Spratt et al. (2007) Sample 1	70	USA	Journal Article	Intraventricular hemorrhages
Spratt et al. (2007) Sample 2	45	USA	Journal Article	Neural tube defects
Spratt et al. (2007) Sample 3	45	USA	Journal Article	Neural tube defects
Staunton et al. (2020)	31	Ireland	Journal Article	Intellectual disabilities
Stein (2018)	231	USA	Dissertation	Mental health disorders
Syrotchen (2019)	71	USA	Dissertation	Developmental disabilities
Taylor (1999; Taylor et al., 1993)	990	USA	Unpublished Report	Developmental disabilities and delays
Tetenbaum (2010)	101	USA	Dissertation	Autism spectrum disorders
Theule et al. (2010)	95	Canada	Journal Article	Attention deficit hyperactivity syndromes
Trivette & Dunst (1987)	224	USA	Book Chapter	Developmental disabilities and delays
Trivette & Dunst (1992)	88	USA	Journal Article	Developmental disabilities and delays
Wang (2016) Sample 1	45	China	Dissertation	Autism spectrum disorders
Wang (2016) Sample 2	59	USA	Dissertation	Autism spectrum disorders
Wheeler et al. (2007)	24	USA	Journal Article	Fragile X syndrome
Wilson (2009)	151	USA	Master's Thesis	At-risk (Living in poverty)

Table S2*Selected Characteristics of the Family Support Scale Study Participants*

Study	N	Primary Study Participants ^a	Participant Characteristics ^b				Child Age ^c	
			Percent of Sample	Mean Age (Yrs.)	Mean Yrs. of School	Percent Married	Mean Age (Yrs.)	Age Range (Yrs.)
Allen & Knott (2016)	51	Mothers	100	NR	NR	NR	8	5-11
Almand (2004)	64	Mothers	100	35	15	91	4	2-7
Anderson (2008)	824	Mothers	91	42	13	49	12	10-18
Austin (1998) Sample 1	54	Mothers	100	37	9	62	12	4-18
Austin (1998) Sample 2	24	Fathers	100	42	11	62	12	4-18
Black & Nitz (1996)	79	Mothers	100	18	11	4	1	<1-2
Blizzard et al. (2016)	44	Mothers	89	NR	NR	36	13	6-17
Burrell et al. (1994)	53	Mothers	100	31	NR	69	3	<1-7
Cantonis (2016)	110	Mothers	100	33	10	74	2	1-3
Cheesman (2009)	30	Mothers	100	40	NR	80	9	6-12
Chick (1998)	75	Mothers	94	41	15	89	13	2-21
DeVries (2016)	44	Mothers	59	NR	NR	86	2	<1-3
Diamond (2005) Sample 1	114	Mothers	100	38	14	78	6	2-12
Diamond (2005) Sample 2	76	Fathers	100	41	14	78	6	2-12
Dunst (1985) Sample 1	137	Mothers	70	31	11	77	3	<1-5
Dunst (1985) Sample 2	40	Mothers	100	28	12	100	5	2-8
Dunst (1985) Sample 3	59	Mothers	68	30	12	94	4	1-7
Dunst (1985) Sample 4	62	Mothers	84	29	12	79	3	1-5
Dunst (1985) Sample 5	52	Mothers	100	29	12	74	2.5	<1-5
Dunst (1985) Sample 6	103	Mothers	100	39	15	85	10	2-17
Dyson (1997) Sample 1	30	Mothers	100	40	15	100	9	6-12
Dyson (1997) Sample 2	30	Fathers	100	41	15	100	9	6-12
Dyson (1997) Sample 3	32	Mothers	100	39	15	100	9	6-12
Dyson (1997) Sample 4	32	Fathers	100	40	15	100	9	6-12
Edmond et al. (2007)	31	Mothers	>75	40	NR	61	11	3-18
Ellis (2020)	161	Mothers	58	36	NR	71	10	5-19
Engelke (1991)	106	Mothers	100	26	13	57	<1	---
Farmer et al. (2004)	83	Mothers	94	33	NR	51	7	<1-17
Gavidia-Payne & Stoneman (1997) Sample 1	75	Mothers	100	33	11	100	3.5	<1-6
Gavidia-Payne & Stoneman (1997) Sample 2	67	Fathers	100	36	11	100	3.5	<1-6
Gousmett (2006)	22	Mothers	91	NR	NR	NR	13	6-20
Hall (2008) Sample 1	50	Mothers	98	40	15	NR	9	<1-20
Hall (2008) Sample 2	23	Fathers	97	40	15	NR	7	<1-20
Harrington et al. (1998)	121	Mothers	100	25	11	12	1.5	<1-3
Hassall et al. (2005)	46	Mothers	100	38	NR	85	9	6-16
Ho (2013)	121	Mothers	100	36	13	96	5	3-6
Hooge (2010)	159	Mothers	100	31	15	98	<1	---
Jones & Passey (2004)	48	Parents ^d	100	NR	NR	67	8	3-13
Keller & Honig (2004) Sample 1	30	Mothers	100	39	13	100	10	5-15
Keller & Honig (2004) Sample 2	30	Fathers	100	40	14	100	10	5-15
Kelley et al. (2011)	230	Grandmothers	100	56	11	19	8	2-14
Kersh et al. (2006) Sample 1	67	Mothers	100	40	15	100	10	---
Kersh et al. (2006) Sample 2	67	Fathers	100	42	15	100	10	---
Lai (2013)	75	Mothers	>75	40	14	92	13	6-18
Lesar et al. (1995)	48	Mothers	90	38	13	42	4.5	<1-13
Letiecq & Kobilinsky (2003)	61	Fathers	100	36	13	46	4	3-6
McCarthy et al. (2006) Sample 1	39	Mothers	100	40	NR	80	10	4-17
McCarthy et al. (2006) Sample 2	28	Fathers	100	41	NR	80	10	4-17
McElvy (1987)	58	Mothers	100	20	11	24	<1	---
McStay et al. (2014) Sample 1	98	Mothers	100	42	15	91	9	2-6
McStay et al. (2014) Sample 2	98	Fathers	100	44	14	91	9	2-6
Mitchell et al. (2015) Sample 1	43	Mothers	100	33	14	NR	3	---
Mitchell et al. (2015) Sample 2	54	Mothers	100	37	14	NR	3	---
Ngo (2017)	167	Mothers	75	40	15	74	9	<1-21
Nolcheva & Trajkovski (2015)	35	Mothers	77	41	NR	94	9	5-12
Palisano et al. (1993)	36	Mothers	100	30	14	NR	1.5	<1-3

Study	N	Participant Characteristics ^b					Child Age	
		Primary Study Participants	Percent of Sample	Mean Age (Yrs.)	Mean Yrs. of School	Percent Married	Mean Age (Yrs.)	Age Range (Yrs.)
Pherasuwon (2003)	108	Mothers	100	37	15	83	6	3-10
Pipp-Siegel et al. (2002)	184	Mothers	100	NR	13	NR	2	<1-6
Robitaille (2012)	21	Grandmothers	86	60	13	62	9	3-15
Rodgers (1993, 1998)	85	Mothers	100	30	13	39	4.5	3-6
Rodrigues (2013)	14	Mothers	86	42	10	67	9	6-17
Rutstein (2014)	25	Mothers	100	38	12	NR	4	2.5-10
Shackell (2011)	30	Mothers	NR	NR	67		7	3-12
Shaffer (2012)	75	Mothers	100	35	NR	NR	3	1-5
Small (2010) Sample 1	93	Mothers	100	40	12	0	12	5-18
Small (2010) Sample 2	96	Mothers	100	35	13	0	10	5-18
Smalls-Raymond (2006)	76	Mothers	95	30	NR	0	2	<1-3
Spratt et al. (2007) Sample 1	70	Mothers	NR	NR	NR		8.5	8-9
Spratt et al. (2007) Sample 2	45	Mothers	100	NR	12	100	8	4-12
Spratt et al. (2007) Sample 3	45	Fathers	100	NR	12	100	8	4-12
Staunton et al. (2020)	31	Mothers	NR	NR	NR	73	13	7-17
Stein (2018)	231	Mothers	90	36	18	85	8	5-13
Syrotchen (2019)	71	Mothers	96	35	15	68	12	3-17
Taylor (1999; Taylor et al., 1993)	990	Mothers	97	30	13	79	2	<1-5
Tetenbaum (2010)	101	Mothers	100	38	18	100	5	2-8
Theule et al. (2010)	95	Mothers	86	42	NR	79	10	8-12
Trivette & Dunst (1987)	224	Mothers	78	29	12	62	2.5	<1-5
Trivette & Dunst (1992)	88	Mothers	100	29	12	80	3	1-5
Wang (2016) Sample 1	45	Mothers	82	32	15	100	4	<1-6
Wang (2016) Sample 2	59	Mothers	90	35	13	NR	4	<1-6
Wheller et al. (2007)	24	Mothers	100	34	15	88	4	1.5-6
Wilson (2009)	151	Mothers	85	40	14	NR	13	11-14

^aMothers include biological mothers, stepmothers, and adoptive mothers. Grandmothers include maternal grandmothers, paternal grandmothers, and great grandmothers.

^bParticipant characteristics for some samples were estimated based on information in the research reports.

^cMean child age and age range for some samples were estimated based on information in the research reports.

^dParents included biological parents, grandparents, and foster parents but there were no sample sizes reported for any of the subgroups.

NOTES. Married includes living with a partner. NR = Not reported or insufficient information included in the research reports to estimate the participant characteristics.

Table S3 <i>Forest Plot Data for the Relationships Between the Family Support Scale and the Parenting Stress Measures</i>						
Parenting Stress Measures	Sample Size	Correlation Coefficient (r)	Lower r Confidence Interval	Upper r Confidence Interval	Within Scale Weights	Between Scale Weights
Parenting Stress Index-Short Form						
Allen & Knott (2016)	51	-.28	-.52	.00	3.96	1.47
Anderson (2008)	824	-.05	-.12	.02	8.54	3.75
Cantonis (2015)	110	-.19	-.37	.00	5.77	2.29
DeVries (2016)	44	.04	-.27	.34	3.61	1.33
Edmond et al. (2007)	31	-.23	-.55	.15	2.81	1.01
Hall (2008) Sample 1	50	-.30	-.54	-.02	3.91	1.45
Hall (2008) Sample 2	23	-.14	-.54	.31	2.20	0.77
Hassall et al. (2005)	46	-.49	-.69	-.22	3.71	1.37
Lai (2013)	75	-.44	-.61	-.23	4.89	1.88
McStay et al. (2014) Sample 1	98	-.21	-.39	.00	5.51	2.16
McStay et al. (2014) Sample 2	98	-.24	-.42	-.04	5.51	2.16
Nolcheva & Trajkovski (2015)	35	-.42	-.67	-.09	3.08	1.11
Pipp-Siegel et al. (2002)	184	-.10	-.24	.05	6.81	2.80
Robitaille (2012)	21	-.38	-.71	.09	2.03	0.71
Rodrigues (2013)	14	-.25	-.72	.38	1.36	0.46
Rutstein (2014)	25	-.61	-.82	-.26	2.37	0.84
Shaffer (2012)	75	-.24	-.45	-.01	4.89	1.88
Spratt et al. (2007) Sample 1	70	-.21	-.43	.03	4.72	1.80
Spratt et al. (2007) Sample 2	45	-.40	-.63	-.11	3.66	1.35
Spratt et al. (2007) Sample 3	45	-.51	-.70	-.25	3.66	1.35
Tetenbaum (2010)	101	-.22	-.40	-.02	5.58	2.19
Theule et al. (2010)	95	-.30	-.48	-.10	5.44	2.13
Wang (2016) Sample 1	45	-.07	-.36	.24	3.66	1.35
Wheller et al. (2007)	24	-.20	-.57	.24	2.29	0.81
Parenting Stress Index-Long Form						
Burrell et al. (1994)	53	-.15	-.41	.13	3.10	1.51
Cheeseman (2009)	30	-.11	-.47	.28	1.67	0.98
Ho (2013)	121	-.09	-.26	.10	7.32	2.39
Keller & Honig (2014) Sample 1	30	-.28	-.59	.11	1.67	0.98
Keller & Honig (2014) Sample 2	30	-.13	-.48	.26	1.67	0.98
Kersh et al. (2006) Sample 1	67	-.22	-.44	.03	3.97	1.76
Kersh et al. (2006) Sample 2	67	-.21	-.43	.04	3.97	1.76
Mitchell et al. (2014) Sample 1	43	-.06	-.36	.25	2.48	1.30
Mitchell et al. (2014) Sample 2	54	-.15	-.41	.13	3.16	1.53
Smalls-Raymond (2006)	76	-.17	-.38	.06	4.52	1.89
Staunton et al. (2020)	31	-.39	-.66	-.03	1.73	1.01
Taylor (1999)	992	-.25	-.31	-.19	61.28	3.81
Wang (2016) Sample 2	59	-.18	-.42	.09	3.47	1.62
Questionnaire on Resources and Stress-Short Form						
Austin (1998) Sample 1	54	.15	-.13	.41	9.86	1.53
Austin (1998) Sample 2	24	.23	-.21	.60	7.18	0.81
Dyson (1997) Sample 1	30	-.39	-.67	-.02	8.00	0.98
Dyson (1997) Sample 2	30	-.25	-.57	.14	8.00	0.98
Dyson (1997) Sample 3	32	.19	-.18	.52	8.22	1.04
Dyson (1997) Sample 4	32	-.14	-.48	.23	8.22	1.04
Gousmsett (2006)	22	-.55	-.80	-.14	6.84	0.74
Jones & Passey (2004)	48	-.24	-.50	.06	9.53	1.41
Lesar et al. (1995)	48	.00	-.29	.29	9.52	1.41
McCarthy et al. (2006) Sample 1	39	-.44	-.67	-.13	8.89	1.21
McCarthy et al. (2006) Sample 2	28	-.44	-.71	-.06	7.75	0.92
Shackell (2011)	30	-.54	-.76	-.21	8.00	0.98

Table S3, continued.

Parenting Stress Measures	Sample Size	Correlation Coefficient (r)	Lower Correlation CI	Upper Correlation CI	Within Scale Weights	Between Scale Weights
QRS Mood and Health Subscale						
Dunst (1985) Sample 1	137	-.21	-.37	-.04	15.72	2.51
Dunst (1985) Sample 2	40	-.33	-.59	-.01	8.07	1.24
Dunst (1985) Sample 3	59	-.31	-.53	-.05	10.45	1.62
Dunst (1985) Sample 4	62	-.50	-.67	-.28	10.77	1.67
Dunst (1985) Sample 5	52	-.25	-.49	.03	9.66	1.49
Dunst (1985) Sample 6	103	.04	-.16	.23	14.00	2.22
Trivette & Dunst (1987)	224	-.19	-.31	-.06	18.33	2.97
Trivette & Dunst (1992)	88	-.13	-.33	.08	13.01	2.05
Other Parenting Stress Measures						
Ellis (2020)	161	-.12	-.27	.04	24.46	2.68
Phetrasuwan (2003)	108	-.13	-.31	.07	19.90	2.27
Stein (2018)	231	.05	-.08	.18	28.26	3.00
Syrotchen (2019)	71	-.26	-.47	-.02	15.33	1.82
Wilson (2009)	151	-.21	-.46	.08	12.05	1.47

NOTE. QRS = Questionnaire on Resources and Stress.

Table S4 <i>Forest Plot Data for the Relationships Between the Family Support Scale and the Caregiving Burden Measures</i>						
Caregiving Burden Measures	Sample Size	Correlation Coefficient (r)	Lower r Confidence Interval	Upper r Confidence Interval	Within Domain Weights	Between Domain Weights
Childrearing Demands						
Almond (2004)	64	-.21	-.44	.04	5.66	2.31
Blizzard et al. (2016)	44	-.16	-.44	.15	4.01	1.56
Chick (1998)	75	-.30	-.50	-.07	6.50	2.72
Dunst (1985) Sample 1	137	-.21	-.37	-.04	10.45	4.89
Dunst (1985) Sample 2	40	.01	-.31	.33	3.66	1.41
Dunst (1985) Sample 4	62	.10	-.16	.35	5.51	2.24
Dunst (1985) Sample 5	52	-.16	-.42	.12	4.70	1.86
Farmer et al. (2004)	83	-.25	-.44	-.03	7.08	3.02
Lesar et al. (1995)	48	.10	-.20	.38	4.36	1.71
McCarthy et al. (2014) Sample 1	39	-.37	-.62	-.05	3.57	1.37
McCarthy et al. (2014) Sample 2	28	-.45	-.71	-.07	2.56	0.96
Pipp-Siegel et al. (2002)	184	-.07	-.21	.08	12.81	6.65
Rodgers (1993, 1998)	85	-.20	-.40	.02	7.22	3.09
Trivette & Dunst (1987)	224	-.17	-.30	-.04	14.49	8.04
Trivette & Dunst (1992)	88	-.21	-.40	.00	7.43	3.20
PSI Difficult Child Behavior Subscale						
Burrell et al. (1994)	53	-.01	-.29	.26	3.03	1.90
Cheesman (2009)	30	-.17	-.51	.22	1.64	1.03
Harrington et al. (1998)	121	-.25	-.41	-.07	7.15	4.41
Ho (2013)	121	-.05	-.22	.14	4.48	4.41
Keller & Honig (2004) Sample 1	30	-.30	-.61	.08	1.64	1.03
Keller & Honig (2004) Sample 2	30	-.28	-.59	.11	1.64	1.03
Mitchell et al. (2015) Sample 1	43	.00	-.31	.31	2.42	1.52
Mitchell et al. (2015) Sample 2	54	.00	-.27	.27	3.09	1.94
Pipp-Siegel et al. (2002)	184	-.09	-.23	.06	10.97	6.65
Rutstein (2014)	25	-.20	-.57	.23	1.33	0.84
Taylor et al. (1993) ^a	992	-.12	-.18	-.06	59.94	30.10

^aParenting Stress Index Child Demandingness Subscale

Table S5 <i>Forest Plot Data for the Relationships Between the Family Support Scale and the Parenting Belief Measures</i>						
Parenting Belief Measures	Sample Size	Correlation Coefficient (r)	Lower r Confidence Interval	Upper r Confidence Interval	Within Domain Weights	Between Domain Weights
Parenting Self-Efficacy Appraisals						
Almand (2004)	64	.18	-.07	.41	9.24	5.72
DeVries (2016)	44	-.09	-.38	.22	6.30	3.84
Diamond (2005) Sample 1	114	.25	.07	.42	16.22	10.40
Diamond (2005) Sample 2	76	.23	.00	.43	10.96	6.84
Engelke (1991)	106	.08	-.11	.27	15.14	9.65
Lai (2013)	75	.34	.12	.53	10.82	6.75
Shackell (2011)	30	.18	-.21	.52	4.19	2.53
Small (2012) Sample 1	93	.11	-.10	.31	13.35	8.43
Small (2012) Sample 2	96	.28	.08	.46	13.77	8.72
Parenting Competence Appraisals						
Engelke (1991)	106	.27	.08	.44	26.01	9.65
Hooge (2010)	159	.26	.11	.40	39.39	14.62
McElvy (1987)	58	.29	.03	.51	13.89	5.15
Rodgers (1993, 1998)	85	.29	.08	.48	20.71	7.69

Table S6 <i>Forest Plot Data for the Relationships Between the Family Support Scale and the Parenting Practices Measures</i>						
Parenting Practices Measures	Sample Size	Correlation Coefficient (r)	Lower r Confidence Interval	Upper r Confidence Interval	Within Domain Weights	Between Domain Weights
Positive Parenting Interactions						
Black & Nitz (1996)	79	.17	-.06	.38	21.47	4.33
Dunst (1985) Sample 2	40	.18	-.15	.47	10.45	2.11
Dunst (1985) Sample 5	52	.11	-.15	.35	16.67	3.36
Letiecq & Koblinsky (2003)	61	.14	-.12	.38	16.38	3.30
Mitchell et al. (2015) Sample 1	43	.11	-.21	.40	11.30	2.28
Mitchell et al. (2015) Sample 2	54	.23	-.05	.47	14.41	2.90
Palisano et al. (1993)	36	.33	-.01	.60	9.32	1.88
Parenting Engagement Practices						
Anderson (2008)	824	.23	.16	.29	58.53	46.73
Dunst (1985) Sample 1	137	.13	-.05	.29	9.55	7.63
Gavidia-Payne & Stoneman (1997) Sample 1	75	.27	.04	.47	5.13	4.10
Gavidia-Payne & Stoneman (1997) Sample 2	67	.26	.02	.47	4.56	3.64
Kelley et al. (2011)	230	.17	.04	.29	16.18	12.92
Trivette & Dunst (1992)	88	.10	-.11	.31	6.06	4.84

References

- Allen, S., & Knott, F. (2016). How do children's challenges to function and participation impact maternal stress? *New Zealand Journal of Occupational Therapy*, 63(2), 29-37.
- Almand, C. S. (2004). *Parenting daily hassles and parents of children with disabilities: Relationships to maternal efficacy, maternal satisfaction, and social support*. [Master's thesis, University of Georgia]. <http://www.fcs.uga.edu/ss/theses.html>.
- Anderson, L. S. (2008). Predictors of parenting stress in a diverse sample of parents of early adolescents in high-risk communities. *Nursing Research*, 57, 340-350. <https://doi.org.310.1097/1001.NNR.0000313502.0000392227.0000313587>.
- Austin, J. (1998). *Parental adaptation to the cerebral-palsied child: The influence of psychosocial variables*. [Master's Thesis, University of Cape Town]. <http://hdl.handle.net/11427/9561>.
- Black, M. M., & Nitz, K. (1996). Grandmother co-residence, parenting, and child development among low income, urban teen mothers. *Journal of Adolescent Health*, 18, 218-226. [https://doi.org/210.1016/1054-1139X\(1095\)00168-R](https://doi.org/210.1016/1054-1139X(1095)00168-R).
- Blizzard, A. M., Weiss, C. L., Wideman, R., & Stephan, S. H. (2016). Caregiver perspectives during the post inpatient hospital transition: A mixed methods approach. *Child Youth Care Forum*, 45, 759-780. <https://doi.org/710.1007/s10566-10016-19358-x>.
- Bronfenbrenner, U. (1979). *The ecology of human development: Experiments by nature and design*. Harvard University Press.
- Burrell, B., Thompson, B., & Sexton, D. (1994). Predicting child abuse potential across family types. *Child Abuse and Neglect*, 18, 1039-1049. [https://doi.org/1010.1016/0145-2134\(1094\)90130-90139](https://doi.org/1010.1016/0145-2134(1094)90130-90139).
- Cantonis, A. M. (2016). *Predictors of parenting stress in Hispanic immigrant mothers in New York City: The roles of risk factors, social support, and length of time living in the United States*. [Doctoral Dissertation, Florida State University]. <https://diginole.lib.fsu.edu/islandora/object/fsu:552038/datastream/PDF/view>.
- Cheesman, J. (2009). *Raising an ADHD child: Relations between parental stress, child functional impairment, and subtype of the disorder*. [Honors Thesis, University of Cape Town]. https://open.uct.ac.za/bitstream/handle/11427/10245/thesis_hum_2011_cheesman_j.pdf?sequenc=1&isAllowed=y.
- Chick, M. T. L. (1998). *An examination of the effects of family demands and resources on adaptation in families of children with diabetes*. [Master's Thesis, University of Windsor]. <https://scholar.uwindsor.ca/etd/1034>.
- DeVries, L. (2016). *The role of child characteristics, parental self-efficacy, and social support on parental stress in mothers and fathers of children with autism spectrum disorders*. [Doctoral Dissertation, University of North Dakota]. <https://commons.und.edu/theses/1888>.
- Diamond, T. (2005). *Positive and negative impacts of raising a child with autism: An examination of the direct and moderating effects of various coping resources*. [Doctoral Dissertation, York University]. ProQuest Dissertations and Theses. <https://www.proquest.com/psychology/docview/305113113/28CCFBEC2CF44290PQ/1?accountid=8385>: ProQuest Dissertations Publishing.

- Dunst, C. J. (1985). Rethinking early intervention. *Analysis and Intervention in Developmental Disabilities*, 5, 165-201. [https://doi.org/110.1016/S0270-4684\(1085\)80012-80014](https://doi.org/110.1016/S0270-4684(1085)80012-80014).
- Dunst, C. J. (2022). Associations between perceived family social support and the psychological health of caregivers of children and adolescents: A systematic review and meta-analysis. *European Journal of Psychological Research*, 9(2), 32-57.
- Dunst, C. J. (in press). Systematic review and meta-analysis of the relationships between family social support and parenting stress, burden, beliefs and practices. *International Journal of Health and Psychology Research*.
- Dunst, C. J., Jenkins, V., & Trivette, C. M. (1984a). *Family Support Scale*. Winterberry Press.
- Dunst, C. J., Jenkins, V., & Trivette, C. M. (1984b). Family Support Scale: Reliability and validity. *Journal of Individual, Family and Community Wellness*, 1(4), 45-52. <http://www.puckett.org/FSS.pdf>.
- Dyson, L. L. (1997). Fathers and mothers of school-age children with developmental disabilities: Parental stress, family functioning, and social support. *American Journal of Mental Retardation*, 102(3), 267-279. [https://doi.org/210.1352/0895-8017\(1997\)1102<0267:FAMOSC>1352.1350.CO;1352](https://doi.org/210.1352/0895-8017(1997)1102<0267:FAMOSC>1352.1350.CO;1352).
- Edmond, Y. M., Randolph, S. M., & Richard, G. L. (2007). The Lakou system: A cultural, ecological analysis of mothering in rural Haiti. *Journal of Pan African Studies*, 2, 19-32. <http://www.jpanafrican.org/docs/vol12no11/TheLakouSystem.pdf>.
- Ellis, B. M. (2020). *An examination of parental locus of control, stress, social support, and depression among parents of children and adolescents with intellectual disabilities*. [Doctoral Dissertation, University of Southern Mississippi]. <https://aquila.usm.edu/dissertations/1817>.
- Engelke, M. K. (1991). *Maternal competence in mothers of high risk infants*. [Doctoral Dissertation, North Carolina State University]. ProQuest Dissertations and Theses. <https://www.proquest.com/central/docview/303938683/3F8E031F451742FCPO/1?accounntid=8385>.
- Farmer, J. E., Marien, W. E., Clark, M. J., Sherman, A., & Selva, T. J. (2004). Primary care supports for children with chronic health conditions: Identifying and predicting unmet family needs. *Journal of Pediatric Psychology*, 29, 355-367. <https://doi.org/310.1093/jpepsy/jsh1039>.
- Gavidia-Payne, S., & Stoneman, Z. (1997). Family predictors of maternal and paternal involvement in programs for young children with disabilities. *Child Development*, 68, 701-717. <https://doi.org/710.1111/j.1467-8624.1997.tb04231.x>.
- Gousmett, S. L. (2006). *Families of children with developmental disabilities: Family environment, social support and sibling well-being*. [Master's Thesis, University of Canterbury, New Zealand]. <http://ir.canterbury.ac.nz/handle/10092/1340>.
- Hall, H. R. (2008). *The relationships among adaptive behaviors of children with autism spectrum disorders, their family support networks, parental stress, and parental coping*. [Doctoral Dissertation, University of Tennessee]. <http://etd.uthsc.edu/ABSTRACTS/2008-037-Hall-index.htm>.
- Harrington, D., Black, M. M., Starr, R. H., Jr., & Dubowitz, H. (1998). Child neglect: Relation to child temperament and family context. *American Journal of Orthopsychiatry*, 68(1), 108-116. <https://doi.org/110.1037/h0080275>.
- Hassall, R., Rose, J., & McDonald, J. (2005). Parenting stress in mothers of children with an intellectual disability: The effects of parental cognitions in relation to child characteristics

- and family support. *Journal of Intellectual Disability Research*, 49, 405-418. <https://doi.org/10.1111/j.1365-2788.2005.00673.x>.
- Ho, T.-H. (2013). *Well-being and support systems of Taiwanese mothers of young children with developmental disabilities*. [Doctoral Dissertation, University of California Riverside]. ProQuest Dissertations and Theses. <https://www.proquest.com/docview/1430897290>.
- Hooge, S. L. (2010). *Effects of a brief parenting education program on parenting knowledge and social support in mothers of infants*. [Master's Thesis, University of Calgary]. <http://hdl.handle.net/1880/48214>.
- Jones, J., & Passey, J. (2004). Family adaptation, coping and resources: Parents of children with developmental disabilities and behaviour problems. *Journal on Developmental Disabilities*, 11(1), 31-46. <https://oadd.org/wp-content/uploads/2016/2012/jonespassey.pdf>.
- Keller, D., & Honig, A. S. (2004). Maternal and paternal stress in families with school-aged children with disabilities. *American Journal of Orthopsychiatry*, 74(3), 337-348. <https://doi.org/10.1037/0002-9432.1074.1033.1337>.
- Kelley, S. J., Whitley, D., & Campos, B. C. (2011). Behavior problems in children raised by grandmothers: The role of caregiver distress, family resources, and the home environment. *Children and Youth Services Review*, 33, 2138-2145. <https://doi.org/10.1016/j.childyouth.2011.2106.2021>.
- Kersh, J., Hedvat, T. T., Hauser-Cram, P., & Warfield, M. E. (2006). The contribution of marital quality to the well-being of parents of children with developmental disabilities. *Journal of Intellectual Disability Research*, 50, 883-893. <https://doi.org/10.1111/j.1365-2788.2006.00906.x>.
- Lai, F. J. (2013). *The relationships between parenting stress, child characteristics, parenting self-efficacy, and social support in parents of children with autism in Taiwan*. [Doctoral Dissertation, Columbia University]. <https://doi.org/10.7916/D8BR90C2>.
- Lesar, S., Gerber, M. M., & Semmel, M. I. (1995). HIV infection in children: Family stress, social support, and family adaptation. *Exceptional Children*, 62(3), 224-236. <https://doi.org/10.1177/001440299606200304>.
- Letiecq, B. L., & Koblinsky, S. A. (2003). African-American fathering of young children in violent neighborhoods: Paternal protective strategies and their predictors. *Fathering*, 1, 215-237. <https://doi.org/10.3149/fth.0103.3215>.
- McCarthy, A., Cuskelly, M., van Kraayenoord, C. E., & Cohen, J. (2006). Predictors of stress in mothers and fathers of children with fragile X syndrome. *Research in Developmental Disabilities*, 27(6), 688-704. <https://doi.org/10.1016/j.ridd.2005.1010.1002>.
- McElvy, P. H. (1987). *The relationships among first-time mothers' perceptions of maternal-role identity, social support and age*. [Master's Thesis, Medical College of Georgia]. <http://hdl.handle.net/10675.2/622478>.
- McStay, R. L., Trembath, D., & Dissanayake, C. (2014). Stress and family quality of life in parents of children with autism spectrum disorder: Parent gender and the double ABCX model. *Journal of Autism and Developmental Disabilities*, 44(12), 3101-3118. <https://doi.org/10.1007/s10803-10014-12178-10807>.
- Mitchell, D. B., Hauser-Cram, P., & Crossman, M. K. (2015). Relationship dimensions of the 'Down syndrome advantage'. *Journal of Intellectual Disability Research*, 59(6), 506-518. <https://doi.org/10.1111/jir.12153>.

- Ngo, C. L. (2017). *Experiences of pediatric parenting stress and family support for caregivers of children with special health care needs or developmental disabilities*. [Doctoral Dissertation, University of Oregon]. <http://hdl.handle.net/1794/23157>.
- Nolcheva, M., & Trajkovski, V. (2015). Exploratory study: Stress, coping and support among parents of children with autism spectrum. *Journal of Special Education and Rehabilitation*, 16(3-4), 84-100. <https://doi.org/110.1515/JSER-2015-0013>.
- Palisano, R. J., Chiarello, L. A., & Haley, S. M. (1993). Factors related to mother-infant interaction in infants with motor delays. *Pediatric Physical Therapy*, 5, 55-60. <https://journals.lww.com/pedpt/pages/articleviewer.aspx?year=1993&issue=00520&article=00003&type=Abstract>.
- Phetrasuwan, S. (2003). *Psychological adjustment in mothers of children with Autism Spectrum Disorder*. [Doctoral Dissertation, University of North Carolina at Chapel Hill]. ProQuest Dissertations and Theses Global. <https://www.proquest.com/docview/305311770?pq-origsite=gscholar&fromopenview=true>.
- Pipp-Siegel, S., Sedey, A. L., & Yoshinaga-Itano, C. (2002). Predictors of parental stress in mothers of young children with hearing loss. *Journal of Deaf Studies and Deaf Education*, 7, 1-17. <https://doi.org/10.1093/deafed/1097.1091.1091>.
- Robitaille, K. Y. (2012). *The health of rural grandparents raising grandchildren*. [Doctoral Dissertation, University of Tennessee]. <http://dx.doi.org/10.21007/etd.cghs.2012.0264>.
- Rodgers, A. Y. (1993). The assessment of variables related to the parenting behavior of mothers with young children. *Children and Youth Services Review*, 15, 385-402. [https://doi.org/10.1016/0190-7409\(1093\)90011-W](https://doi.org/10.1016/0190-7409(1093)90011-W).
- Rodgers, A. Y. (1998). Multiple sources of stress and parenting behavior. *Children and Youth Services Review*, 20, 525-546. [https://doi.org/10.1016/S0190-7409\(1098\)00022-X](https://doi.org/10.1016/S0190-7409(1098)00022-X).
- Rodrigues, C. J. R. (2013). *Relacao entre parental e as funcoes de apoio familias de crancas com doenças raras* [Relationship between parenting and support roles for families with rare diseases]. [Honor's Thesis, Universidade Fernando Pessoa Ponte de Lima]. <http://hdl.handle.net/10284/3900>.
- Rutstein, S. Y. (2014). *Raising young children on the autism spectrum: Parental stress and perceived social support*. [Doctoral Dissertation, Rutgers: The State University of New Jersey]. <https://doi.org/doi:10.7282/T32F7KWJ>.
- Shackell, E. (2011). *Spirituality and religion as coping mechanisms: Families raising children with developmental disabilities*. [Master's Thesis, Saint Paul University]. https://ruor.uottawa.ca/bitstream/10393/20007/1/Shackell_Erin_2011_thesis.pdf.
- Shaffer, C. M. (2012). *Parenting stress in mothers of preschool children recently diagnosed with autism spectrum disorder*. [Doctoral Dissertation, Rutgers, The State University of New Jersey]. <https://doi.org/doi:10.7282/T3GX49HQ>.
- Small, R. P. (2010). *A comparison of parental self-efficacy, parenting satisfaction, and other factors between single mothers with and without children with developmental disabilities*. [Doctoral Dissertation, Wayne State University]. http://digitalcommons.wayne.edu/oa_dissertations/30/.
- Smalls-Raymond, E. (2006). Factors affecting single African American caregivers' compliance and participation in early intervention services. *Dissertation Abstracts International: Section A: Humanities and Social Sciences*, 67(3), 839.

- Spratt, E. G., Saylor, C. F., & Macias, M. M. (2007). Assessing parenting stress in multiple samples of children with special needs (CSN). *Families, Systems and Health*, 25, 435-449. <https://doi.org/10.1037/1091-7527.1025.1034.1435>.
- Staunton, E., Kehoe, C., & Sharkey, L. (2020). Families under pressure: Stress and quality of life in parents of children with an intellectual disability. *Irish Journal of Psychological Medicine*, First View, 1-8. <https://doi.org/10.1017/ijpm.2020.1014>.
- Stein, A. (2018). *Parental efficacy, stigma, and help-seeking for children with mental health issues*. [Doctoral Dissertation, Pace University]. <https://digitalcommons.pace.edu/dissertations/AAI10991933>.
- Syrotchen, B. D. (2019). *Stress, social support, and mindfulness in parents of children with neurodevelopmental deficits: A quantitative analysis*. [Doctoral Dissertation, Walden University]. <https://scholarworks.waldenu.edu/dissertations/6686>.
- Taylor, M. J. (1999). *Family support and resources in families having children with disabilities*. ERIC Document Reproduction Service No. ED434430. <https://eric.ed.gov/?q=%22family+support+and+resources+in+families%22&id=ED434430>.
- Taylor, M. J., Crowley, S. L., & White, K. R. (1993). *Measuring family support and resources: Psychometric investigation of the FSS and FRS*. ERIC Document Reproduction Service No. ED359249. <https://files.eric.ed.gov/fulltext/ED359249.pdf>.
- Tetenbaum, S. P. (2010). *Family predictors of quality of life and child behavior problems in families of young children with Autism Spectrum Disorders*. [Doctoral Dissertation, Stony Brook University]. <http://hdl.handle.net/1951/55648>.
- Theule, J., Wiener, J., Rogers, M. A., & Marton, I. (2011). Predicting parenting stress in families of children with ADHD: Parent and contextual factors. *Journal of Child and Family Studies*, 20, 640-647. <https://doi.org/10.1007/s10826-10010-19439-10827>.
- Trivette, C. M., & Dunst, C. J. (1987). Proactive influences of social support in families of handicapped children. In H. G. Lingren, L. Kimmons, P. Lee, G. Rowe, L. Rottmann, L. Schwab, & R. Williams (Eds.), *Family strengths: Vol. 8-9. Pathways to well-being* (pp. 391-405). University of Nebraska, Center for Family Strengths.
- Trivette, C. M., & Dunst, C. J. (1992). Characteristics and influences of role division and social support among mothers of preschool children with disabilities. *Topics in Early Childhood Special Education*, 12, 367-385. <https://doi.org/10.1177/027112149201200308>.
- Wang, W.-C. (2016). *Social support and parental stress among parents of young children with autism spectrum disorder: An international comparison of the United States and China*. [Doctoral Dissertation, University of Pittsburgh]. <http://d-scholarship.pitt.edu/30475/1/Wang%20Dissertation%20Post%20Defense%20Revision%20Updated.pdf>.
- Wheeler, A., Hatton, D., Reichardt, A., & Bailey, D. (2007). Correlates of maternal behaviors in mothers of children with fragile X syndrome. *Journal of Intellectual Disability Research*, 51, 447-462. <https://doi.org/10.1111/j.1365-2788.2006.00896.x>.
- Wilson, M. H. (2009). *The associations between social support, economic strain, and parenting stress among at-risk families*. [Master's Thesis, University of Kansas]. https://kuscholarworks.ku.edu/bitstream/handle/1808/5439/Wilson_ku_0099M_10261_DATA_1.pdf?sequence=1.