

Regular Article

Family stress model and social support among low-income families

Shourya Negi¹ o and Kierra M.P. Sattler¹ o

Department of Human Development and Family Studies, University of North Carolina at Greensboro, Greensboro, NC, USA

Abstract

Mothers living in low-income families are more likely to experience depressive symptoms and parenting stress which in turn can undermine mother-child interactions adversely influencing child outcomes. Previous studies demonstrate that social support is beneficial for low-income mothers to fulfill caregiving responsibilities and promote positive child outcomes. However, the longitudinal application of the Family Stress Model with protective factors remains unexplored in the literature. Thus, we examined the association between parenting stress and depressive symptoms at year 1 with harsh and responsive parenting at year 3. Then, we examined whether parenting practices at year 3 predicted child outcomes at year 5 and the main and moderating effects of social support at year 1 and year 3 on parenting and child outcomes. The sample included 1,968 mothers from the Future of Families and Child Wellbeing Study. Results showed that parenting stress significantly predicted harsh parenting. Harsh parenting was associated with more internalizing behavior problems and decreased adaptive social behavior. Responsive parenting was associated only with fewer internalizing behavior problems. The main effects of social support on responsive and harsh parenting and child outcomes were significant. Specific intervention programs targeted at reducing parenting stress, enhancing parenting skills, and improving the social support network should be designed to support mothers in the context of economic adversity.

Keywords: Depressive symptoms; family stress model; parenting; parenting stress; social support

(Received 4 March 2024; revised 27 January 2025; accepted 27 February 2025)

Introduction

The impact of mothers' emotional distress, including depressive symptoms and parenting stress, on child outcomes has long been a topic of interest among researchers (Masarik & Conger, 2017). Parenting during early childhood is a particularly vulnerable developmental stage, as parents of young children are at higher risk of experiencing parenting stress and depressive symptoms (Liu & Wang, 2015). Approximately 11 percent of parents in the US often or always experience parenting stress (USDHHS, 2014). Similarly, about 15 million children in the US reside with parents who have had one or more instances of major depressive disorder (England et al., 2009). Prior research suggests that mothers in low-income families are at a higher risk of experiencing parenting stress or depressive symptoms. Indeed, roughly 1 in 11 mothers in lowincome households experience major depression (McDaniel & Lowenstein, 2013), and 19 percent of parents in low-income families experience parenting stress (USDHHS, 2014). Given that approximately 40 percent of young children in the United States live in low-income households, it is essential to understand the consequences of parenting stress and depressive symptoms on parenting behaviors and subsequently on child outcomes and the protective factors that may buffer these family stress processes (Koball et al., 2021).

Both depressive symptoms and parenting stress are shown to have detrimental impacts on parenting behaviors (Dix & Moed, 2019;

 $\textbf{Corresponding author:} \ \text{Shourya Negi; Email: } \underline{s_negi@uncg.edu}$

Cite this article: Negi, S., & Sattler, K. M. P. (2025). Family stress model and social support among low-income families. *Development and Psychopathology*, 1–13, https://doi.org/10.1017/S0954579425000173

Ward & Lee, 2020). These maladaptive parenting behaviors, in turn, have been consistently shown as significant predictors of child outcomes such as behavior outcomes, poor cognitive abilities, and worse socioemotional development (Morris et al., 2017). There are various protective factors that can buffer these associations and social support has persistently emerged as a crucial protective factor that mitigates the negative impact of economic and emotional risk factors on parenting behaviors and child outcomes (Hashima & Amato, 1994). Hence, the current study examines the associations of emotional distress with adaptive and maladaptive parenting and subsequent child social, emotional, and behavior outcomes among low-income families. Moreover, we investigated the direct and moderating effects of social support on parenting behaviors as well as child outcomes.

Family stress model

The current study is guided by the Family Stress Model and the model theorizes that parents in low-income households experience heightened distress, undermining their parenting quality and thereby leading to poorer child outcomes (Conger et al., 2002). The model also posits that there are various factors including biological, psychological, and social resources that can buffer the family stress processes. This model has garnered substantial empirical support from decades of studies across various populations and family structures (Masarik & Conger, 2017). However, there is an existing gap in the Family Stress Model literature regarding testing protective and promotive factors that may buffer different risk exposures. There have been only a handful of studies that have tested the moderating role of social support in the Family Stress

© The Author(s), 2025. Published by Cambridge University Press. This is an Open Access article, distributed under the terms of the Creative Commons Attribution licence (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted re-use, distribution and reproduction, provided the original article is properly cited.

Model however these studies have mixed findings. For example, McConnell and colleagues (2011) did not find main effects of social support on parenting quality but found significant buffering effects of social support on the association between parenting stress and parenting quality. Moreover, social support had a significant main effect on child outcomes but did not buffer the association between parenting quality and child outcome. In another study, social support had significant main effects on parental depression and positive parenting, but the moderating effect was not significant (Lee et al., 2009). Therefore, Conger and colleagues have warranted the need to examine the resilience processes in the Family Stress Model to identify the factors that can buffer the adverse effects of stressors in vulnerable families (Conger et al., 2010; Masarik & Conger, 2017; Masarik et al., 2022).

Another major gap in the Family Stress Model literature is that most of the existing studies are cross-sectional in nature and have tested the model on adolescents rather than young children (Barnett, 2008; Neppl et al., 2016). Although a few recent studies have used the longitudinal design to test the Family Stress Model, these studies have examined the child outcomes during the middle childhood (Gard et al., 2020; Neppl et al., 2016; Saasa et al., 2021). However, it is important to examine the model among young children during the early childhood period because they may be particularly vulnerable to the adverse effects of family processes, such as maternal emotional distress and parenting behaviors, in the face of economic adversity (Linver et al., 2002). In turn, these adverse experiences during the early years of life can lead to maladaptive socioemotional, behavioral, and cognitive outcomes (Barnett, 2008). Thus, we extend the previous work on the Family Stress Model by 1) testing a longitudinal application on families with young children; 2) including both depressive symptoms and parenting stress as predictors of both adaptive and maladaptive parenting practices; 3) examining children's social, behavior, and language outcomes concurrently; and 4) testing the main and moderating effects of social support on parenting behaviors and child outcomes. Given that the Family Stress Model focuses on the effect of economic hardship on the family stress processes, we limited our sample to low-income mothers. Although Conger et al. (2002) broadly defined emotional distress as depressive symptoms, anxiety, anger, and alienation, we also included parenting stress besides maternal depressive symptoms as an indicator of maternal emotional distress because previous research using the FSM have used parenting stress as a unique indicator of emotional distress (Gard et al., 2020; Gershoff et al., 2007; McConnell et al., 2011; Warren & Font, 2015; Wu et al., 2025). Moreover, negative affect has been demonstrated as the common underlying phenotype for both depressive symptoms and parenting stress and hence both were included in the model in the current study (Gard et al., 2020).

Parent's emotional distress and parenting behavior

Parents' emotional distress can be characterized by many indicators, but the current study focuses on depressive symptoms and parenting stress. Depressive symptoms are considered sadness, loss of energy, irritability, insomnia, diminished ability to focus, and loss of interest in usual activities (American Psychiatric Association, 2013). The link between depressive symptoms and unresponsive parenting can be understood by emotion-related theories regarding depression and parenting. Depressive symptoms are likely to evoke more negative emotions and fewer positive and empathetic emotions in parents, which promotes harsh and unresponsive parenting practices (Dix & Moed, 2019). Research

studies based on both self-reported and observational methods have well established the role of maternal depressive symptoms in undermining parenting quality and behaviors (Lovejoy et al., 2000). Indeed, mothers with depression tend to have fewer positive interactions with their children and exhibit less sensitivity and responsiveness towards their children (Cohn & Campbell, 1992). For example, Campbell and colleagues (2007) reported that mothers with high levels of depressive symptoms had lower levels of maternal sensitivity as compared to mothers with low levels of depressive symptoms. Maternal depressive symptoms also predict more hostility, negative control, and anger expression toward their children (Leung & Slep, 2006). For example, a meta-analysis by Lovejoy et al. (2000) based on 46 observational studies of motherchild interactions reported that depressed mothers tend to exhibit more negative interactions and hostile behaviors towards their children.

In addition to depressive symptoms, parents commonly experience parenting stress, which is defined as the specific stress related to the demands of being a parent (Deater-Deckard, 1998). Previous research has well-documented the negative impact of parenting stress on parenting behavior. Based on Abidin's theory on parenting stress, parents experience higher stress levels due to the demands of parenting demands and, therefore, engage in less optimal interactions with their children (Abidin, 1990). Parents of young children are more likely to experience parenting stress, especially with a higher likelihood among low-income parents (Liu & Wang, 2015; Raphael et al., 2010). Parents of young children may experience higher levels of parenting stress because the first five years are particularly taxing (Östberg & Hagekull, 2000). Families with lower income may be more likely to experience higher levels of parenting stress because they still need to meet the demands of parenting but are simultaneously experiencing constraints on their time and resources (Leigh & Milgrom, 2008). Empirical evidence suggests that parents with higher levels of parenting stress are more likely to demonstrate harsh parenting and show less responsiveness towards their children. For example, Crnic and colleagues (2005) found that higher parenting stress among mothers was associated with harsh parenting practices, including yelling and physical expressions of anger toward their young children. Further, Ward & Lee (2020) found that higher parenting stress was related to lower responsiveness towards their toddlers. Taken together, depressive symptoms and parenting stress can negatively impact parent-child interactions and undermine sensitive parenting behaviors. Given that parenting behavior is a significant predictor of child outcomes, it is important to identify the predictors of parenting behavior during this critical time period to inform early prevention and intervention programs with families. Previous research demonstrates that early delays in children's socioemotional, behavioral, and cognitive outcomes have long-reach on outcomes later in life and are related to maladaptive outcomes in adulthood (Whittaker et al., 2011). Therefore, early years are probably the best window of opportunity to alter the trajectories of maladaptive child outcomes (Heckman, 2006).

Parenting behavior on child outcomes

Responsive and harsh parenting are mechanisms through which maternal depressive symptoms and parenting stress are related to child outcomes, such that depressive symptoms and high parenting stress impede parenting quality leading to negative child outcomes. Responsive parenting is contingent on children's cues and is characterized by sensitive and warm responses of caregivers to

children's cues (Bowlby, 1973). In contrast, harsh parenting involves controlling, aggressive behaviors, such as spanking or shoving the child and verbal aggression towards the child (Straus et al., 1998). Parenting behaviors, including responsive parenting and harsh parenting, particularly during early childhood play an instrumental role in predicting children's behavioral, socioemotional, and cognitive outcomes in a way that responsive parenting fosters these outcomes, whereas harsh parenting undermines them.

Responsive parenting has been related to fewer behavior problems, better cognitive skills particularly their language development, and more adaptive social behavior (Ward & Lee, 2020). Parenting plays a salient role in children's language development as responsive parents foster stimulating and supportive environments for their children during their daily interactions and encourage their efforts of using language (Eshel et al., 2006). Responsive parents, characterized by consistent and contingent response to their child cues, engage in verbal reciprocity, take turns while communicating with their young children, and builds the conversation based on child's cues which fosters children's language development (Cates et al., 2012). Responsive parents also incorporate teaching behaviors with their young children during daily routine activities such as labeling the objects that the child pays attention to and book reading and shows positive affect towards the child which predict positive language development (Pace et al., 2017). For example, a recent metaanalysis based on 37 studies found that parent sensitive responsiveness was positively associated with children language development (Madigan et al., 2019). Responsive caregiving also plays a foundational role on young children's socioemotional development. Children receiving consistent and contingent responses from their responsive parents develop adaptive internal working models that help children understand that they are worthy of love and care from their caregivers, resulting in adaptive socioemotional outcomes (Bowlby, 1973). Moreover, young children heavily rely on their caregivers to facilitate them in regulating their emotions and responsive parents help the children to successfully regulate their negative emotions (Tronick, 2007). Children learn adaptive emotion regulation skills from their caregivers in a warm and sensitive environment and employ these skills to effectively regulate their negative emotions such as frustration and sadness and learn to express their emotions in socially appropriate manner while interacting with other adults and peers (Bordeleau et al., 2012; Tronick, 2007).

Conversely, harsh parenting practices put children at risk of negative outcomes such as externalizing and internalizing behavior problems and poorer social and cognitive skills (Akcinar & Shaw, 2018; Berlin et al., 2009; Callahan et al., 2011; Gershoff, 2002). Parents who engage in harsh parenting practices are less likely to teach their children the ability to have emotional and behavioral control, leading to externalizing behavior problems in their children (Dix, 1991). One potential explanation is the social learning perspective where children model parents' aggressive behaviors during coercive interactions and generalize these maladaptive interactions to other interpersonal contexts (Bandura, 1977). Moreover, since harsh parenting is distressing for children, these experiences may result in children feeling anxious, wary, and uneasy, resulting in more internalizing problems (Gilliom & Shaw, 2004). Parents' use of harsh parenting can also be detrimental to children's social skills as it can reinforce defiant responses in children and lead them to struggle to understand the rules regarding emotional expressiveness (Laible et al., 2004; Smith et al., 2014). Furthermore, harsh parenting characterized by negative parent-child interactions has also been linked with compromised cognitive outcomes, notably children's language development including receptive language ability (Berthelon et al., 2020). Receptive language is the ability of children to understand words or sentences and is one of the major developmental milestones during the early childhood period (Frazier, 2011). The optimal receptive language development during early childhood predicts adaptive language and reading skills development across middle childhood and adolescence (McGuinness, 2005). Children need conducive caregiving environment to facilitate their receptive language development (Madigan et al., 2019), however, the parents who use harsh parenting practices tend to have fewer verbal exchanges with their children such as limited general conversations and book-readings thereby providing limited opportunities to enrich children's language development (Dede Yildirim & Roopnarine, 2019). In addition, harsh parenting creates hostile environment that could put the child under a cognitive load which could hinder their abilities to internalize key information during their interactions with parents (Rothbart & Putnam, 2002). Previous research has found that negative parenting practices are associated with slower rate of growth in young children's receptive language abilities. Thus, harsh parenting is consistently linked with worse developmental outcomes for children.

Although the links from emotional distress to parenting behaviors and parenting behaviors to child outcomes have been established in the literature, few studies have employed a longitudinal design to examine the mechanism linking maternal emotional distress to various child outcomes via parenting behaviors. Furthermore, there is limited research exploring the longitudinal associations between emotional distress, parenting behaviors, and children's social, behavioral, and language outcomes in a high-risk sample of low-income families. This is a major shortcoming given that extensive literature has demonstrated that parents' emotional distress and parenting behavior are robust predictors of child outcomes. Therefore, in the present study, we tested both responsive and harsh parenting practices in the same model to disentangle their differential effect on various child outcomes in the context of socioeconomic and emotional risk.

Effect of social support on parenting behavior and child outcomes

Given that parenting young children can be stressful for parents, especially for parents living in low-income families, social support can play a crucial role in assisting parents with caregiving responsibilities. Social support can be defined as the support that an individual receives from their social networks, including family and friends. For example, it could be either financial (e.g., giving loans or help with the mortgage), or instrumental (e.g., helping in childcare) (Thompson, 1995). Financial and instrumental support could be particularly important for mothers experiencing economic hardship because it can help them to meet critical basic needs of their family such as food, shelter, and childcare and to better cope with daily hardships. Social support is one of the most commonly cited protective and promotive factors (Masten et al., 2021). A promotive factor exhibits a direct effect, in which promotive factors are positively associated with adaptive outcomes regardless of risk exposure. A protective factor exhibits a moderating effect, in which the protective factor buffers the association between risk exposure and the outcome. According to

Differential Impact Theory (Ungar, 2018), the protective role of a moderator depends on the individual's exposure to the risk. The impact of a protective factor also depends on the outcome assessed (Ungar, 2019). As such, the conditions under which social support is protective or promotive likely vary based on the risk and the outcome assessed.

Prior research has demonstrated that social support is a promotive factor for later parenting behaviors. In other words, evidence has shown that social support has a direct effect on parenting behavior, and more exposure to social support enhances parenting quality irrespective of risk exposure. For example, Ceballo & McLoyd (2002) examined the association between instrumental social support and parenting among a sample of mothers experiencing economic disadvantage. They assessed mothers' instrumental social support by asking them questions on the degree of instrumental support (for example, counting on someone to run errands if your family is sick) they can get from the social network during the times of need and found that parents' perception of a higher level of instrumental social support predicted lesser punitive parenting practices. Similarly, Choi & Pyun (2014) used the same data set and found that higher levels of perceived instrumental support from their social network in the form of money, time, or in-kind assistance predicted better parenting quality among a sample of low-income mothers. Although social support could be helpful for all the parents, it can also have buffering effects on parenting behavior in the context of risk exposure and can mitigate the impact of risk on parenting behavior. In other words, social support can interact with risk exposure to predict parenting behavior. Low-income mothers often rely on their social network to provide them instrumental support, especially while experiencing difficulties of raising a young child. Social network could help mothers alleviate the financial burden of expensive childcare, housing, and transportation by providing free emergency childcare support, free housing, or access to transportation which may alleviate mothers' emotional distress and promote adaptive parenting practices (Kalil & Ryan, 2010; Taraban et al., 2019). Prior evidence suggests that social support improves parenting behaviors among parents experiencing high levels of emotional distress in the context of economic hardship (Crnic et al., 1984). For example, a systematic review on informal support in which many studies used the FFCWS data found that instrumental support reduces neglectful and harsh parenting by decreasing mothers' emotional distress among low-income families (Radey, 2018). Furthermore, Sattler (2022) using FFCWS data and Leinonen et al. (2003) found that instrumental support including help from social network in childcare, household chores, and loaning small amount of money buffered against punitive parenting practices in the context of economic risk exposure. Thus, there is preliminary evidence that social support might buffer parents' emotional distress on parenting behaviors, even in the context of economic disadvantage.

In addition to parenting behavior, social support can also be directly or indirectly associated with child outcomes. Despite facing adversity, the developmental trajectories of children may be improved through social support from social networks in two ways. First, the extended social network can assist parents in caregiving, which in turn can lead to positive child outcomes. Mothers living in low-income families particularly rely on their social network for assistance due to their inability to purchase services such as childcare. For example, Gordon et al. (2004) found more adaptive child outcomes with mothers living in multigenerational households who got support and assistance from other

family members in child-rearing. Alternatively, social support can have a direct effect on child outcomes as children can receive support from social support figures extending beyond their primary caregivers. The support from the social network could also provide frequent positive experiences to the child and may promote a sense of wellbeing leading to more adaptive child outcomes (Cohen, 2004). For example, Appleyard et al. (2007) found that children with supportive social support outside their parents had lesser externalizing and internalizing problem behaviors.

Despite the evidence for the protective and promotive effect of social support, it has not been explored much in the Family Stress Model literature in the first five years of children's life. Moreover, very few population-based studies exist that have explored the protective and promotive effects of social support on the association between emotional distress and children's social, behavior, and language outcomes via parenting behaviors. It is crucial to examine these resilience processes in a longitudinal study given the deleterious effect of emotional distress and maladaptive parenting on child outcomes (Manuel et al., 2012). Therefore, the current study examines whether social support (financial and instrumental) has direct and moderating effects on multiple parenting and child outcomes across multiple risk exposures.

The current study

Using three waves of data from Future of Families and Child Wellbeing Study (FFCWS), the current study focused on two research questions. First, do responsive and harsh parenting mediate the association between parenting stress and depressive symptoms and children's internalizing and externalizing behavior problems, adaptive social behavior, and receptive language skills in low-income households? We hypothesized that parenting behaviors will mediate the association between maternal emotional distress and child outcomes such that higher levels of parenting stress and maternal depressive symptoms will lead to less responsive and more harsh parenting which in turn will predict higher externalizing and internalizing behavior problems and lower adaptive social behavior and receptive language skills. Second, whether social support is a protective factor that moderates the association between maternal emotional distress and parenting behaviors or promotive factor that fosters adaptive parenting behaviors? We hypothesize that social support will have negative and significant main effect on harsh parenting and positive significant effect on responsive parenting however we do not propose any formal hypotheses for the moderating role of social support. Third, whether social support is a protective factor that moderates the association between parenting behaviors on child outcomes or promotive factor that fosters adaptive child outcomes? We hypothesize that social support will have negative and significant main effect on internalizing and externalizing behavior problems and positive significant effect on adaptive social behavior and receptive language skills however we do not propose any formal hypotheses for the moderating role of social support.

Method

The current study used the data from the Future of Families and Child Wellbeing Study (FFCWS), a nationally-representative, longitudinal birth cohort study of children living in 20 cities across the U.S. recruited from 1998 to 2000. This study oversampled for children born to unmarried parents, and the participating families were disproportionately more likely to experience economic

disadvantage. The data is publicly available at the Princeton University Office of Population Research data archive. There were approximately 5,000 children included in the study at the baseline but for the current study, data was used from year 1 (wave 2, 89% completion rate), year 3 (wave 3, 86% completion rate), and year 5 (wave 4, 85% completion rate). The sample was limited to the mothers who participated in the fourth wave of data collection as this is when our outcomes of interest were assessed. Families living below 100% of the federal poverty thresholds are considered poor and families living between 100 to 200% of the federal poverty thresholds are considered near poor families (Jiang et al., 2017) and our sample was limited to low-income mothers (both poor and near poor) living below 200% of the federal poverty line resulting in a sample of 1968 mothers. Our sample was racially/ethnically diverse (48 % Black, 28% Hispanic, 21% White, and 4% other race) and included 1,968 mothers. The majority of mothers were either single (40%) or cohabitating (36%), and 24% of mothers were married. The average age of children at wave 2 (year 1) was 1.26 years (range = 9 months to 2.5 years), at wave 3 (year 3) was 2.94 years (range = 2.67 to 3.9 years), and at wave 4 (year 5) was 5.11 years (range = 4.75 to 6 years). Of the total sample, approximately 52% of the children were male.

Measures

Parenting stress (year [Y] 1)

Parenting Stress was measured using four items adapted from the Parent Stress Inventory (Abidin, 1995). Mothers indicated their perceived stress due to childrearing (e.g., "I feel trapped by my responsibilities as a parent") on a 4-point scale, with responses ranging from 1 (strongly agree) to 4 (strongly disagree) at 1 year. The items were reverse coded and averaged, such that a higher score indicated higher levels of parenting stress (α = .61, Mean = 2.17, SD = .71, Range = 1 to 4).

Depressive symptoms (year [Y] 1)

Depressive symptoms were assessed using the Composite International Diagnostic Interview- Short Form (CIDI-SF) (Kessler et al., 1998). At 1 year survey, mothers answered a screening question if they had a feeling of depression (dysphoria) or were unable to enjoy normally pleasurable things during the past year (anhedonia). After an affirmative response to either of the two questions, mothers were asked 7 follow-up questions about their feelings of worthlessness, feelings of tiredness, difficulty in sleeping, difficulty in concentrating, loss of interest in things, change in weight by 10 or more pounds without trying, and thoughts about death. The mothers who responded 'no' to both the screening questions were given a score 0. The items were summed to create a score for depressive symptoms such that a higher score reflected more depressive symptoms ($\alpha = .91$, Mean = 1.18, SD = 2.26, Range = 0 to 8).

Responsive parenting (year [Y] 3)

Responsive parenting was assessed using the Home Observation for Measurement of the Environment (HOME) Inventory (Caldwell & Bradley, 2001). To assess responsive parenting at year 3, 9 items from the responsivity subscale (e.g., "Parent responds verbally to child's vocalizations or verbalizations") and 2 items from the involvement subscale (e.g., "Parent keeps child in visual range, look at often") were used. During the home visits, trained observers completed these 11 items using dichotomous scoring 0 (not present), 1 (present) based on mothers' responses

during the mother-child interactions. These 11 items were summed to create a composite score for responsive parenting such that higher scores indicated more responsive parenting ($\alpha = .78$, Mean = .83, SD = .20, Range = 0 to 1).

Harsh parenting (year [Y]3)

Harsh parenting was assessed using the Home Observation for Measurement of the Environment (HOME) Inventory (Caldwell & Bradley, 2001). To assess harsh parenting at year 3, 5 items from the acceptance scale were used (e.g., "Parent does not express overt annoyance with or hostility to the child"). During the home visits, trained observers completed these 11 items using dichotomous scoring 0 (not present), 1 (present) based on mothers' responses during the mother–child interactions. All the items were reversescored and summed to create a composite score for harsh parenting such that higher scores indicated harsher parenting ($\alpha = .76$, Mean = .11, SD = .22, Range = 0 to 1).

Receptive language skills (Y3 & Y5)

Children's receptive language skills were measured using the standardized scores from the *Peabody Picture Vocabulary Test* (PPVT; Dunn & Dunn, 1997) at year 3 and year 5. The test was administered to the child during the in-home visit where the interviewer measured their receptive vocabulary. During administration, the interviewer read aloud words and asked the child to point to the picture that corresponds the word from a given set of four pictures. The PPVT score used in the current study was a constructed variable in the FFCWS data set (Mean = 83.51, SD = 15.51, Range = 40 to 130 for Y3 and Mean = 90.19, SD = 15.46, Range = 40 to 131 for Y5).

Social skills (Y3 & Y5)

Children's social skills were measured using the *Adaptive Social Behavior Inventory* (ASBI) at year 3 and year 5. The ASBI was used to assess social competence and prosocial skills of children based on mothers' report on each item using a 3-point scale ranging from 0 (*not true*) to 2 (*very true or often true*). The scale consisted of 9 items (e.g., "child is sympathetic toward other children's distress") at 3 year (α = .73, *Mean* = 1.68, SD = .30, Range = 0 to 2) and 13 items (e.g., "child understands others' feelings, like when they are happy, sad, or mad") at 5 year (α = .80, Mean = 1.58, SD = .26, Range = .08 to 2.0) and the items were averaged at each year to create overall social skills score such that higher scores reflected higher social skills.

Behavior problems (Y3 & Y5)

Children's behavior problems were assessed using the Child Behavior Checklist (CBCL; Achenbach, 1991). Mothers reported on their children's externalizing and internalizing problems on a 3-point scale ranging from 0 (*not true*) to 2 (*very true or often true*) at year 3 and year 5. The internalizing behavior included two subscales - anxious/depressed (8-items at year 3 and 14-items at year 5; e.g., "Child is nervous, high strung, or tense") and withdrawn (8-items at year 3 and 9-items at year 5; e.g., "child is withdrawn, he/she doesn't get involved with others"). The externalizing behavior included two subscales- aggressive (15items at year 3 and 18-items at year 5; e.g., "Child is defiant"), destructive (7-items at year 3; e.g., "Child can't concentrate, can't pay attention for long") and delinquent (10-items at year 5; e.g., "Child doesn't seem to feel guilty after misbehaving"). These subscales were combined within domain to create internalizing behavior problems ($\alpha = .80$, Mean = .43, SD = .24, Range = 0 to 1.5

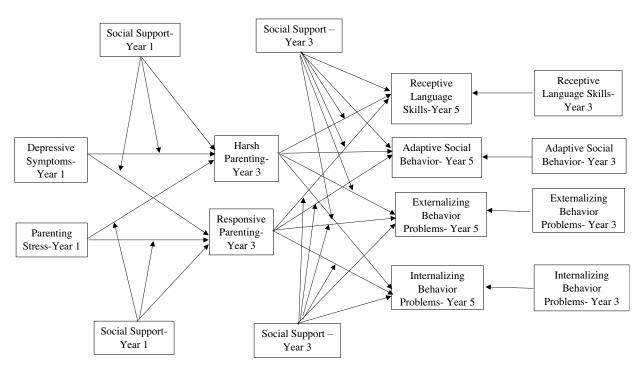


Figure 1. Conceptual framework.

at Y3 and α = .73, Mean = .26, SD = .20, Range = 0 to 1.4 at Y5) and externalizing behavior problems (α = .88, Mean = .64, SD = .36, Range = 0 to 1.9 at Y3 and α = .85, Mean = .45, SD = .24, Range = 0 to 1.5 at Y5) scales, with higher scores indicating higher levels of behavior problems.

Social support (Y1 & Y3)

To assess perceived social support, mothers were asked 6-items focused on financial support (4-items, e.g., "Could you count on someone to loan \$200 in the next year?") and instrumental support (2-items, e.g., "Could you count on someone to provide a place to live in the next year?"). Mothers responded 1 (yes) and 0 (no) to each item at year 1 (α = .69, Mean = .68, SD = .28, Range = 0 to 1) and year 3 (α = .70, Mean = .67, SD = .28, Range = 0 to 1). A mean score was created using all the 6 items such that a higher score indicated more social support.

Covariates

We controlled for several child-related, mother-related, and family-level covariates. These included child's age (continuous variable), gender (0 = female, 1 = male, male as reference group), low-birth weight (0 = not low birthweight, 1 = low birthweight; low birthweight as reference group), child disability status (0 = no physical disability, 1 = physical disability; physical disability as reference group), mother's age (continuous variable), education (continuous variable), marital status (1 = Married, 2 = Cohabitating, 3 = Single; Single as the reference group), nativity status (0 = Not U.S. born, 1 = U.S. born; U.S. born as the reference group), race/ethnicity (1 = White, 2 = Black, 3 = Hispanic/Other race; Hispanic/ other race as reference group), number of family members (continuous variable), and spanking at year 1 (1 = yes, 0 = Variable), and spanking at year 1 (1 = yes, 0 = Variable).

no; yes as reference group). Spanking at year 1 was included as a covariate in the model because the measures for parenting behaviors at year 1 was not available in the data set and previous studies have found spanking as a significant predictor of child outcomes (Gershoff & Grogan-Kaylor, 2016). The hypotheses and design of the current study were not pre-registered. Data may be accessed by applying to Princeton's University's Office of Population Research (OPR) data archive.

Analytic approach

The conceptual model is displayed in Figure 1. Structural equation modeling (SEM) framework was employed using Mplus (Muthen & Muthen, 2017). To handle the missing data, Full Information Maximum Likelihood (FIML) was used. We tested three sets of models. First, we used SEM linear regressions to estimate the mediation effect of parenting behaviors (including harsh parenting and responsive parenting) on the association between emotional distress (including depressive symptoms and parenting stress) and child outcomes (including receptive language skills, social skills, and behavior problems). We also tested the indirect effects of maternal emotional distress on child outcomes via parenting behaviors using the indirect effects estimator in Mplus with 1000 bootstrap samples with p-value less than .05 as significant. In the second set of models, we included the main effects of social support in the base model. Specifically, we estimated the main effects of social support at year 1 on harsh parenting and responsive parenting at year 3 and the main effects of social support at year 3 on child outcomes at year 5. Finally, in the third set of models, moderated mediation effect was tested where social support moderated the pathway from maternal emotional distress to child outcomes via parenting behaviors. These models were estimated

Table 1. Correlations and descriptive statistics

	Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Dep Symptoms														
2.	Parenting Stress	.15**													
3.	Harsh Parenting	.03	.09**												
4.	Res. Parenting	02	06*	29**											
5.	Cog. Skills- 3 YR	01	04	14**	.26**										
6.	A.S. Beh. 3 YR	.01	08**	10**	.20**	.15**									
7.	Intern. Beh. 3 YR	.10**	.16**	.14**	13**	14**	23**								
8.	Exter. Beh.3 YR	.14**	.16**	.28**	08**	06*	05	.69**							
9.	Cog. Skills 5 YR	.04	10**	09**	.19**	.44**	.17**	17**	09**						
10.	A.S. Beh. 5 YR	.02	04	11**	.14**	.16**	.32**	15**	07**	.18**					
11.	Intern. Beh. 5 YR	.15**	.11**	.14**	10**	12**	13**	.43**	.39**	10**	13**				
12.	Exter. Beh. 5 YR	.16**	.17**	.12**	07*	03	03	.37**	.53**	05*	.05*	.49**			
13.	Social Sup Year 1	16**	14**	08**	.10**	.07**	.12**	13**	09**	.13**	.13**	11**	08**		
14.	Social Sup Year 3	16**	07**	08*	.10**	.06*	.10**	13**	08**	.10**	.10**	10**	07**	.53**	
	Mean	.20	.10	.01	01	83.05	1.67	.43	.64	90.28	1.58	.26	.45	06	06
	SD	2.26	.71	.22	.2	15.51	.30	.24	0.36	15.47	.26	.20	.26	.30	.30

separately from the second set of models because we cannot interpret the main effects in the presence of the interaction term. Specifically, we estimated the moderating effect of social support at year 1 on the association between emotional distress at year 1 and parenting behaviors at year 3. In other words, the moderating role of social support at year 1 on the association between depressive symptoms at year 1 and responsive and harsh parenting at year 3 and the association between parenting stress at year 1 and responsive and harsh parenting at year 3 were assessed. We also tested the moderating effect of social support at year 3 on the pathway between harsh parenting and child outcomes at year 5 and responsive parenting and child outcomes at year 5. In all the models, we specified covariates on parenting behaviors (responsive and harsh parenting) and child outcomes (internalizing and externalizing behavior problems, adaptive social skills, and receptive language skills). The model fit was assessed using four fit indices, including the chi-square index (a nonsignificant value indicates good fit), the root mean square error of approximation (RMSEA; value below or equal to .08 indicates good fit), standardized root mean square root (SRMR; value below or equal to .08 demonstrates good fit), and comparative fit index (CFI; value above or equal to .90 indicates good fit) (Hu & Bentler, 1999).

Results

Descriptive statistics and intercorrelations among the study variables are displayed in Table 1 and the results are displayed in Figure 2. The association of covariates with child outcomes and parenting behaviors are shown in supplemental table 1 and 2 respectively. Regarding the covariates, child sex, race, maternal education, and marital status was significantly associated with children receptive language skills; maternal age, race, and marital status was significantly associated with children internalizing and externalizing behavior problems, and child age, child sex, maternal age, education, and marital status was significantly associated with adaptive social behavior. The results of the Little's test using the

Stata command (mcartest) showed that the data was missing at random, χ^2 (5920) = 3903.80, p = 1.00. In our first set of analyses, we tested the hypothesized mediating role of parenting behaviors (i.e., harsh parenting and responsive parenting) on the association between mothers' emotional distress (i.e., depressive symptoms and parenting stress) on child outcomes (Model 1). This model demonstrated a good fit (χ 2 (24) = 130.10, p = 0.00; RMSEA = .05, 90% CI [.04, .06]; CFI = .95; SRMR = .01. In model 1, harsh parenting was positively associated with internalizing behavior problems ($\beta = .06$, p = .04) and was negatively associated with adaptive social behavior ($\beta = -.07$, p = .02). However, the responsive parenting was not associated with any of the child outcomes. Furthermore, parenting stress was positively associated with harsh parenting ($\beta = .07$, p = .03) but not responsive parenting. In other words, results indicated that mothers who experienced higher parenting stress reported more harsh parenting. Depressive symptoms were neither associated with harsh parenting nor responsive parenting. Harsh parenting, in turn, was negatively associated with adaptive social behaviors ($\beta = -.07$, p = .02) and was positively associated with internalizing behaviors $(\beta = .07, p = .02)$. However, harsh parenting was not associated with receptive language skills and externalizing behaviors problems. Responsive parenting was negatively associated with internalizing behavior problems ($\beta = -.06$, p = .04) but was not significantly associated with receptive language skills, adaptive social behaviors, and externalizing behavior problems. We also estimated indirect effects from emotional distress to child outcomes via parenting behaviors using Mplus model indirect estimation with 1,000 bootstrap samples and none of the indirect effects were significant.

In model 2, we estimated the hypothesized main effect of social support at year 1 on harsh parenting, responsive parenting at year 3, and the main effect of social support at year 3 on child outcomes. The model demonstrated a good fit (χ 2 (30) = 136.80, p = 0.00; RMSEA = .04, 90% CI [.03, .05]; CFI = .95; SRMR = .01). The main effect of social support at year 1 on harsh parenting at year 3

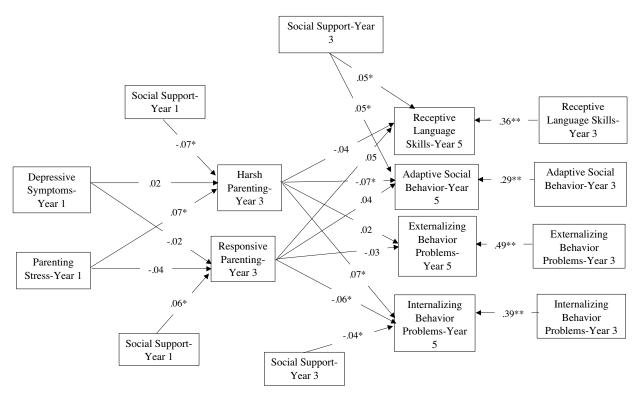


Figure 2. Standardized coefficients are presented. *p < .05, **p < .01. Child's age, gender, low-birth weight, child disability status, mother's age, education, marital status, nativity status, race/ethnicity, number of family members, and spanking at year 1 were specified as covariates on parenting behaviors and child outcomes in the model, but associations are not illustrated.

was significant ($\beta = -.07$, p = .02) such that higher social support at year 1 predicted less harsh parenting behaviors at year 3. In addition, higher social support at year 1 also predicted more responsive parenting at year 3 ($\beta = .06$, p = .03). Regarding child outcomes, social support at year 3 was positively associated with receptive language skills ($\beta = 0.05$, p = .04) and adaptive social behavior ($\beta = .05$, p = .03) and was negatively associated with internalizing behavior at year 3 ($\beta = -.04$, p = .04). There was no main effect of social support at year 3 on externalizing behavior problems at year 5.

In model 3, moderated mediation effect was estimated for social support. This model included four interaction terms: the interaction term between depressive symptoms at year 1 and social support at year 1 predicting parenting behaviors at year 3, the interaction term between parenting stress at year 1 and social support at year 1 predicting parenting behaviors at year 3, the interaction term between social support at year 3 and harsh parenting at year 3 predicting child outcomes at year 5, and the interaction term between social support at year 3 and responsive parenting at year 3 predicting child outcomes at year 5. None of the interaction effects of social support were significant in the model and are displayed in Table 2.

Discussion

Guided by the Family Stress Model, the present study investigated the mediating role of predicted responsive and harsh parenting on the association between maternal emotional distress (maternal depressive symptoms and parenting stress) and child outcomes (including receptive language skills, adaptive social behavior, and externalizing and internalizing behavior problems). Moreover, we also examined the main and buffering effects of social support on parenting behaviors and child outcomes. In the current study, we did not find evidence for the mediating role of parenting behaviors on the association between maternal emotional distress and child outcomes on all the specified pathways in the model. The results showed that parenting stress predicted harsh parenting, which in turn predicted adaptive social behavior and internalizing behavior problems. Emotional distress was not associated with responsive parenting however, responsive parenting was associated with internalizing behavior problems. We also found significant main effects of social support on responsive parenting, harsh parenting, receptive language skills, and adaptive social behavior however, none of the moderating effects were significant.

In the present study, we found partial support for the hypothesis that parents' emotional distress undermines their parenting behaviors in the context of economic disadvantage. Consistent with the prior work, our findings highlighted the significant role of parenting stress in predicting disrupted parenting behavior such that parents with higher parenting stress used more harsh parenting practices. It is well documented that heightened levels of stress experienced in the context of parenting are associated with negative parenting behaviors. For example, Jackson and Choi (2018) and Mortensen and Barnett (2015) found that higher parenting stress was associated with more harsh parenting practices during early childhood. Surprisingly, parenting stress was not related to responsive parenting and does not align with the previous literature that have demonstrated that parents with higher levels of parenting stress are less responsive and involved and show lower warmth towards their children (Deater-Deckard, 1998). For example, Ward & Lee (2020) tested the Family Stress Model among a sample of parents of young children and found significant negative associations between parenting stress and their responsiveness. In their study, Ward & Lee (2020)

Table 2. Moderating effects of social support on maternal emotional distress and child outcomes

	Adaptive Social Behavior Y5	Externalizing Behavior Problems Y5	Internalizing Behavior Problems Y5	Receptive Language Skills Y5		
Harsh Parenting	07*	.02	.07*	04		
Responsive Parenting	.04	03	06*	.05		
2 Way Interaction Terms						
Harsh Parenting Y3 X Social Support Y3	.05	04	03	.02		
Responsive Parenting Y3 X Social Support Y3	01	.01	.04	.03		
	Responsi	ve Parenting Y3	Harsh Parenting Y3			
Depressive Symptoms Y1		02	.02			
Parenting Stress Y1		.07*	04			
2 Way Interaction Terms						
Depressive Symptoms Y1 X Social Support Y1		05	.08			
Parenting Stress Y1 X Social Support Y1		.04	.01			

Note. Y1 = Year 1; Y3 = Year 3; Y5 = Year 5. * p < .05, ** p < .01.

included various important dimensions of parenting, such as maternal sensitivity, positive regard, and detachment using videotaped laboratory observations of mother-child interactions during the Two-Bags Task. However, in our study, we relied only on interviewer observations of maternal responsiveness using the HOME scale, which only includes dichotomous indicators of whether a behavior occurred or not. Therefore, our measure of responsive parenting may not have captured as wide of a range of parenting behaviors.

Furthermore, contrary to the expectations, findings of the study indicated that depressive symptoms were neither associated with responsive parenting nor with harsh parenting. Our findings differ from Shelleby et al. (2014), who found that heightened maternal depression predicted higher levels of harsh parenting practices among mothers of young children. Similarly, Lee et al. (2023) also tested the Family Stress Model in a low-income context and found that maternal depression was associated with lower levels of maternal warmth towards their young children. However, our findings are consistent with a few prior studies that have used the Future of Families and Child Wellbeing study data to examine the association between depressive symptoms and parenting behaviors. For example, Saasa et al. (2021) tested the Family Stress Model on immigrant mothers and did not find significant associations between depression at age 3 and harsh parenting at age 5. Likewise, Kuckertz and colleagues (2018) did not find significant association between maternal depressive symptoms and their use of physical assault including spanking and shooking the child during early childhood. The nonsignificant association between emotional distress and parenting behaviors could possibly be due to a ceiling effect because limiting the sample only to the families living below 200 percent of the federal poverty level could reduce the variability in the scores. The null findings may also be due to large time gap between the measurement of depressive symptoms and parenting behaviors where depressive symptoms were assessed at year 1, however, parenting behaviors were assessed at year 3. Although there was evidence of stability in depressive symptoms as the correlation between depressive symptoms was significant across the two timepoints, future research should replicate the current study with shorter time intervals. Shorter time gaps between waves of assessment would allow researchers to examine whether significant events, such as change in relationship status or other

extraneous events, impact the association between depressive symptoms and parenting behaviors on a more proximal basis. Moreover, there could also be rapid changes in the experiences of parents and young children as children transition from infancy to toddlerhood.

Another finding of the study unveiled that parenting behaviors predicted some but not all of the child outcomes. Harsh parenting predicted lower adaptive social behavior among children. Parents' disciplining techniques characterized by harsh practices have significant implications for children's social competence, such that these negative parent-child interactions undermine children's capacities to get involved in socially appropriate interactions (Scaramella & Leve, 2004). For example, Brotman et al. (2005) found that a training intervention program during early childhood aimed at decreasing harsh parenting practices subsequently led to more social competence among children as compared to their counterparts whose parents were in the control group. Furthermore, parenting behaviors, including harsh and responsive parenting, predicted lesser internalizing behavior problems but did not predict externalizing behavior problems. Research studies have shown the benefits of positive parent-child interactions and the detrimental effects of harsh parenting practices on children's internalizing behavior outcomes. For example, Shaw et al. (2003) and Wadsworth and colleagues (2013) demonstrated that the young children of parents with harsh parenting practices were more likely to have internalizing behavior problems. The nonsignificant associations between parenting behaviors and externalizing problems align with the findings of the metanalysis conducted by Rothbaum & Weisz (1994) with mean age of children as 5.3 years, who displayed minor role of parenting in predicting children's externalizing problems. They found that parenting explained less than 6% of the variance in children's externalizing behavior problems. The finding is also consistent with the previous literature which exhibited that the effect of parenting behaviors on children's externalizing problems becomes more salient as the children get more older (Pearl et al., 2014; Verhoeven et al., 2010). It may be that during the early years of life, externalizing problems may be more dependent on the individual child's characteristics, such as temperament, and parenting behavior might be more influential on externalizing behavior during school years. We also did not find any associations of parenting behaviors with receptive

language skills. It could be that parenting behaviors combined with availability of leaning materials at home such as picture books and children's participation in learning activities such as book reading (also known as home learning environment) could be a robust predictor of children language development. Previous research support this proposition and has shown that home learning environment significantly predict children language development, particularly during the early childhood period (Raikes et al., 2006), however testing the home learning environment as a mediator is beyond the scope of this study.

Another key finding of the study was that social support had significant main effects on harsh and responsive parenting, such that it predicted more responsive and less harsh parenting. Indeed, parenting in low-income families can be challenging due to the presence of multiple stressors and lack of resources and hence social support can be a critical resource for parents experiencing economic hardship (Brody & Flor, 1998; Green et al., 2007; McLoyd, 1998). Higher levels of social support can foster positive parent-child interactions, more involved parenting, and could enhance parents' confidence in their parenting abilities, resulting in more responsive and less harsh parenting practices (Green et al., 2007; Lee et al., 2020). This finding is consistent with the previous studies that have examined the association between emotional distress and parenting using the same data set. For instance, Choi & Pyun (2014), Sattler (2022), and Kang (2013) found that higher levels of instrumental support available to mothers of young children promotes responsive parenting and reduces the risk of neglectful parenting practices.

Social support also directly predicted child outcomes such that higher levels of social support, better receptive language skills, more adaptive social behavior, and lesser externalizing behavior problems among the children. Social support can directly facilitate positive child outcomes because, due to high social support, the child may have positive and nurturing relationships with the adults from the parents' social network beyond their interactions with their primary caregiver (Barnett, 2008). Social support from family members, partners, and friends has been shown to predict children's better cognitive, socioemotional, and behavior outcomes during toddlerhood (Huang et al., 2014; Logsdon et al., 2002). Existing studies that have used FFCWS data to examine the association between instrumental social support and child outcomes and the findings of those studies are consistent with the results in the current study. For example, Choi and Pyun (2014) found that children living in the families receiving instrumental support show better receptive language skills at age 5. Similarly, Ryan et al. (2009) found that young children of mothers receiving higher financial and instrumental support had lower internalizing and externalizing behavior problems and higher adaptive social behavior.

Hence, it suggests that social support is beneficial for parenting practices and child outcomes in all families experiencing variable risk circumstances. However, we did not find evidence of the stress-buffering role of social support. One possible reason for this could be that social support networks are not just a byproduct of social ties, rather, individuals form ties with the social networks based on the assistance they can seek from their network. Likewise, they are included in the social networks of others based on what they can contribute to the network. Since mothers experiencing economic hardship usually have limited resources, it might become difficult for them to reciprocate the support that they receive from the members of their social network leading to their alienation from their social networks or only limited help from their social

network (Offer, 2012). It could also be that the people in mothers' social network might have limited resources, and these might not be enough to demonstrate stress buffering effects. Another reason for the lack of buffering effects of social support could be because we only assessed mothers' instrumental and financial support from her social network and were not able to examine emotional support. Future studies should examine mothers' emotional support to see if it is protective in the context of emotional distress.

There are several major strengths of the present study. First, it contributes to the literature on the longitudinal application of the Family Stress Model among families with young children. Second, the data of the study was collected using multiple methods and included multiple reporters, such as the use of parents' reports for emotional distress and children's behavior outcomes, the use of observational data assessed by the experimenters to examine the parenting behaviors, and the use of children's score on Peabody Vocabulary Test to examine children's receptive language skills. The data drawn from multiple reporters has less biased estimates in comparison to the data drawn from the sole use of a single reporter. Third, the study included a range of child outcomes, including social competence, receptive language skills, and behavior outcomes. Despite these strengths, the findings from the present study should be considered in light of certain limitations. First, the study oversampled for low-income unmarried mothers; hence it limits the generalizability of results to all the U.S. families. Second, we included only those families who were 200 percent below federal poverty level. However, exposure to various levels of poverty may predict different parenting behaviors and child outcomes. Future research should examine parenting and child outcomes at varying poverty levels. Finally, all the variables used in the present study were manifest variables containing measurement error. Future studies should consider latent variables with various indicators to test this model. Lastly, this study cannot establish causality, which would be unethical given the research questions of interest.

Our findings may inform interventions targeted on mothers with young children. First, our results suggest the adverse influence of parenting stress on parent-child interactions. Parents living in low-income families are at disproportionately at higher risk of experiencing parenting stress and targeted intervention programs could help parents to effectively cope with parenting stress in the context of economic adversity. Evidence from previous studies has shown the significant impact of interventions targeted at reducing parenting stress among low-income parents by incorporating cognitive and behavioral skills training to promote effective stresscoping skills among parents (Cates et al., 2016). Second, the significant association between parenting behaviors and children's outcomes suggests that parenting intervention programs could be helpful for low-income parents to foster positive parenting behaviors. Parenting interventions have been shown to be feasible and effective strategies to promote positive parent-child interactions (Knerr et al., 2013). Third, efforts to provide social support to mothers could be effective in promoting adaptive parenting behaviors and child outcomes among low-income families. Various group programs that aim at strengthening low-income mothers' social networks can be helpful to support them. For example, low-income women participants in a community-based social network program showed that the program improved their social networks (Freeman & Dodson, 2014).

In summary, our study shows that parenting stress predicts harsh parenting. Further, harsh and responsive parenting are associated with children's adaptive social behavior and internalizing behavior problems. We also found the significant main effects of social support on parenting behaviors and child outcomes. Taken together, the results suggest that the stress associated with parenting can impede parenting behavior and child outcomes and also underscores the importance of social support to promote positive mother and child outcomes. However, we did not find support for the key proposition of the Family Stress Model regarding the mediating role of responsive parenting on the association between maternal emotional distress and child outcomes and hence the future studies should further explore the other dimensions of parenting behaviors to test the model.

Supplementary material. The supplementary material for this article can be found at https://doi.org/10.1017/S0954579425000173.

Data availability statement. Data may be accessed by applying to Princeton's University's Office of Population Research (OPR) data archive. This study was not preregistered.

Acknowledgements. This study includes data from the Future of Families and Child Wellbeing Study conducted by Princeton University's Bendheim-Thoman Center for Research on Child and Family Wellbeing (CRCFW) and the Columbia Population Research Center (CPRC).

Funding statement. This research received no specific grant from any funding agency, commercial, or not-for-profit sectors.

Competing interests. None.

References

- Abidin, R. R. (1990). Introduction to the special issue: The stresses of parenting. Journal of Clinical Child Psychology, 19(4), 298–301. https://doi.org/10.1207/s15374424jccp1904_1
- **Abidin, R. R.** (1995). *Parenting stress index* (3rd ed.). Psychological Assessment Resources, Inc..
- Achenbach, T. M. (1991). *Integrative guide for the 1991 CBCL/4-18, YSR, and TRF profiles.* Department of Psychiatry, University of Vermont.
- Akcinar, B., & Shaw, D. S. (2018). Independent contributions of early positive parenting and mother-son coercion on emerging social development. *Child Psychiatry & Human Development*, 49(3), 385–395. https://doi.org/10.1007/s10578-017-0758-4
- American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). American Psychiatric Association. https://doi.org/ 10.1176/appi.books.9780890425596
- Appleyard, K., Egeland, B., & Sroufe, L. A. (2007). Direct social support for young high-risk children: Relations with behavioral and emotional outcomes across time. *Journal of Abnormal Child Psychology*, 35(3), 443–457. https://doi.org/10.1007/s10802-007-9102-y
- Bandura, A. (1977). Self-Efficacy: Toward a unifying theory of behavioral change. Psychological Review, 84(2), 191–215. https://doi.org/10.1037/0033-295X.84.2.191
- Barnett, M. A. (2008). Economic disadvantage in complex family systems: Expansion of family stress models. *Clinical Child and Family Psychology Review*, 11(3), 145–161. https://doi.org/10.1007/s10567-008-0034-z
- Berlin, L. J., Ispa, J. M., Fine, M. A., Malone, P. S., Brooks-Gunn, J., Brady-Smith, C., Ayoub, C., & Bai, Y. (2009). Correlates and consequences of spanking and verbal punishment for low-income White. *African American, and Mexican American Toddlers. Child Development*, 80(5), 1403–1420. https://doi.org/10.1111/j.1467-8624.2009.01341.x
- Berthelon, M., Contreras, D., Kruger, D., & Palma, M. I. (2020). Harsh parenting during early childhood and child development. *Economics & Human Biology*, 36, 100831. https://doi.org/10.1016/j.ehb.2019.100831
- Bordeleau, S., Bernier, A., & Carrier, J. (2012). Longitudinal associations between the quality of parent—child interactions and children's sleep at preschool age. *Journal of Family Psychology*, 26(2), 254–262. https://doi.org/ 10.1037/a0027366

- Bowlby, J. (1973). Attachment and loss, separation, anxiety and anger. In Attachment and loss. volume II. Separation, anxiety and anger. New York, NY: Basic Books.
- Brody, G. H., & Flor, D. L. (1998). Maternal resources, parenting practices, and child competence in rural, single-parent African American families. *Child Development*, 69(3), 803–816. https://doi.org/10.1111/j.1467-8624.1998. tb06244.x
- Brotman, L. M., Gouley, K. K., Chesir-Teran, D., Dennis, T., Klein, R. G., & Shrout, P. (2005). Prevention for preschoolers at high risk for conduct problems: Immediate outcomes on parenting practices and child social competence. *Journal of Clinical Child and Adolescent Psychology*, 34(4), 724–734. https://doi.org/10.1207/s15374424jccp3404_14
- Caldwell, B. M., & Bradley, R. H. (2001). HOME inventory and administration manual (3rd ed.). University of Arkansas for Medical Sciences.
- Callahan, K. L., Scaramella, L. V., Laird, R. D., & Sohr-Preston, S. L. (2011). Neighborhood disadvantage as a moderator of the association between harsh parenting and toddler-aged children's internalizing and externalizing problems. *Journal of Family Psychology*, 25(1), 68–76https://psycnet.apa.org/doi/10.1037/a0022448
- Cates, C. B., Dreyer, B. P., Berkule, S. B., White, L. J., Arevalo, J. A., & Mendelsohn, A. L. (2012). Infant communication and subsequent language development in children from low income families: The role of early cognitive stimulation. *Journal of Developmental and Behavioral Pediatrics: JDBP*, 33(7), 577–585. https://doi.org/10.1097%2FDBP.0b013e318264c10f
- Cates, C. B., Weisleder, A., Dreyer, B. P., Berkule Johnson, S., Vlahovicova, K., Ledesma, J., & Mendelsohn, A. L. (2016). Leveraging healthcare to promote responsive parenting: Impacts of the video interaction project on parenting stress. *Journal of Child and Family Studies*, 25(3), 827–835. https://doi.org/10.1007/s10826-015-0267-7
- Ceballo, R., & McLoyd, V. C. (2002). Social support and parenting in poor, dangerous neighborhoods. Child Development, 73(4), 1310–1321. https:// doi.org/10.1111/1467-8624.00473
- Choi, J. K., & Pyun, H. S. (2014). Nonresident fathers' financial support, informal instrumental support, mothers' parenting, and child development in single-mother families with low income. *Journal of Family Issues*, 35(4), 526–546. https://doi.org/10.1177/0192513X13478403
- Cohen, S. (2004). Social relationships and health. American Psychologist, 59(8), 676–684.
- Cohn, J. F., & Campbell, S. B. (1992). Influence of maternal depression on infant affect regulation, developmental perspectives on depression. In D. Cicchetti, & S. L. Toth (Eds.), Rochester symposium on developmental psychopathology. (Vol. 4, pp. 103–130). University of Rochester Press.
- Conger, R. D., Conger, K. J., & Martin, M. J. (2010). Socioeconomic status, family processes, and individual development. *Journal of Marriage and Family*, 72(3), 685–704. https://doi.org/10.1111/j.1741-3737.2010.00725.x
- Conger, R. D., Wallace, L. E., Sun, Y., Simons, R. L., McLoyd, V. C., & Brody, G. H. (2002). Socioeconomic status, family processes, and individual development. *Journal of Marriage and Family*, 72(3), 685–704. https://doi.org/10.1111/j.1741-3737.2010.00725.x
- Crnic, K. A., Greenberg, M. T., Robinson, N. M., & Ragozin, A. S. (1984). Maternal stress and social support: Effects on the mother-infant relationship from birth to eighteen months. *American Journal of Orthopsychiatry*, 54(2), 224–235. https://doi.org/10.1111/j.1939-0025.1984.tb01490.x
- **Deater-Deckard, K.** (1998). Parenting stress and child adjustment: Some old hypotheses and new questions. *Clinical Psychology: Science and Practice*, 5(3), 314–332https://psycnet.apa.org/doi/10.1111/j.1468-2850.1998.tb00152.x
- **Dede Yildirim, E., & Roopnarine, J. L.** (2019). Positive discipline, harsh physical discipline, physical discipline and psychological aggression in five Caribbean countries: Associations with preschoolers' early literacy skills. *International Journal of Psychology*, *54*(3), 342–350. https://doi.org/10.1002/ijop.12465
- Dix, T. (1991). The affective organization of parenting: Adaptive and maladaptative processes. *Psychological Bulletin*, 110(1), 3–25. https://doi. org/10.1037/0033-2909.110.1.3

- Dix, T., & Moed, A. (2019). Depression and parenting. In M. H. Bornstein (Eds.), The handbook of parenting ((3rd ed. pp. 449–482). Routledge Taylor & Francis Group.
- Dunn, L., & Dunn, L. (1997). Peabody picture vocabulary test (3rd ed.). American Guidance Service.
- England, M. J., Sim, L. J. & National Research Council. 2009). Associations between depression in parents and parenting, child health, and child psychological functioning. In Depression in parents, parenting, and children: Opportunities to improve identification, treatment, and prevention. National Academies Press (US).
- Eshel, N., Daelmans, B., Mello, M. C. D., & Martines, J. (2006). Responsive parenting: Interventions and outcomes. *Bulletin of the World Health Organization*, 84(12), 991–998.
- Frazier, M. S. (2011). Receptive language. In S. Goldstein, & J. A. Naglieri (Eds.), Encyclopedia of child behavior and development. Springer, https://doi. org/10.1007/978-0-387-79061-9_2357
- Freeman, A. L., & Dodson, L. (2014). Social network development among low-income single mothers: Potential for bridging, bonding, and building. *Family Relations*, 63(5), 589–601. https://doi.org/10.1111/fare.12088
- Gard, A. M., McLoyd, V. C., Mitchell, C., & Hyde, L. W. (2020). Evaluation of a longitudinal family stress model in a population-based cohort. Social Development, 29(4), 1155–1175. https://doi.org/10.1111/sode.12446
- Gershoff, E. T. (2002). Corporal punishment by parents and associated child behaviors and experiences: A meta-analytic and theoretical review. *Psychological Bulletin*, *128*(4), 539–579. https://doi.org/10.1037//0033-2909.128.4.539
- Gershoff, E. T., Aber, J. L., Raver, C. C., & Lennon, M. C. (2007). Income is not enough: Incorporating material hardship into models of income associations with parenting and child development. *Child Development*, 78(1), 70–95. https://doi.org/10.1111/j.1467-8624.2007.00986.x
- Gershoff, E. T., & Grogan-Kaylor, A. (2016). Spanking and child outcomes: Old controversies and new meta-analyses. *Journal of Family Psychology*, 30(4), 453–469. https://doi.org/10.1037/fam0000191
- Gilliom, M., & Shaw, D. S. (2004). Codevelopment of externalizing and internalizing problems in early childhood. *Development and Psychopathology*, 16(2), 313–333. https://doi.org/10.10170S0954579404044530
- Gordon, R. A., Lindsay Chase-Lansdale, P., & Brooks-Gunn, J. (2004). Extended households and the life course of young mothers: Understanding the associations using a sample of mothers with premature, low birth weight babies. *Child Development*, 75(4), 1013–1038. https://doi.org/10.1111/j. 1467-8624.2004.00723.x
- Green, B. L., Furrer, C., & McAllister, C. (2007). How do relationships support parenting? Effects of attachment style and social support on parenting behavior in an at-risk population. *American Journal of Community Psychology*, 40(1–2), 96–108. https://doi.org/10.1007/s10464-007-9127-y
- Hashima, P. Y., & Amato, P. R. (1994). Poverty, social support, and parental behavior. *Child Development*, 65(2), 394–403. https://doi.org/10.1111/j. 1467-8624.1994.tb00758.x
- Heckman, J. J. (2006). Skill formation and the economics of investing in disadvantaged children. *Science*, 312(5782), 1900–1902. https://doi.org/10. 1126/science.1128898
- Hu, L. T., & Bentler, P. M. (1999). Cutoff criteria for fit indexes in covariance structure analysis: Conventional criteria versus new alternatives. Structural Equation Modeling: A Multidisciplinary Journal, 6(1), 1–55. https://doi.org/ 10.1080/10705519909540118
- Huang, C. Y., Costeines, J., Kaufman, J. S., & Ayala, C. (2014). Parenting stress, social support, and depression for ethnic minority adolescent mothers: Impact on child development. *Journal of Child and Family Studies*, 23(2), 255–262. https://doi.org/10.1007/s10826-013-9807-1
- Jackson, A. P., & Choi, J. (2018). Parenting stress, harsh parenting, and children's behavior. *Journal of Family Medicine & Community Health*, 5(3), 1150.
- Jiang, Y., Granja, M. R., & Koball, H. (2017). Basic facts about low-income children: Children under 6 Years, fact sheet. National Center for Children in Poverty, 2015
- Kalil, A., & Ryan, R. M. (2010). Mothers' economic conditions and sources of support in fragile families. In *The future of children* (pp. 39–61.

- Kang, J. (2013). Instrumental social support, material hardship, personal control and neglectful parenting. *Children and Youth Services Review*, 35(9), 1366–1373. https://doi.org/10.1016/j.childyouth.2013.05.009
- Kessler, R. C., Andrews, G., Mroczek, D., Ustun, B., & Wittchen, H. U. (1998). The World Health Organization composite international diagnostic interview short-form (CIDI-SF). *International Journal of Methods in Psychiatric Research*, 7(4), 171–185. https://doi.org/10.1002/mpr.47
- Knerr, W., Gardner, F., & Cluver, L. (2013). Improving positive parenting skills and reducing harsh and abusive parenting in low-and middle-income countries: A systematic review. *Prevention Science*, 14(4), 352–363. https://doi.org/10.1007/s11121-012-0314-1
- Koball, H., Moore, A., & Hernandez, J. (2021). Basic facts about low-income children: Children under 9 Years. National Center for Children in Poverty, 2019
- Laible, D., Carlo, G., Torquati, J., & Ontai, L. (2004). Children's perceptions of family relationships as assessed in a doll story completion task: Links to parenting, social competence, and externalizing behavior. Social Development, 13(4), 551–569. https://doi.org/10.1111/j.1467-9507.2004. 00283.x
- Lee, C. Y. S., Anderson, J. R., Horowitz, J. L., & August, G. J. (2009). Family income and parenting: The role of parental depression and social support. *Family Relations*, 58(4), 417–430. https://doi.org/10.1111/j.1741-3729.2009.00563.x
- Lee, H. Y., Edwards, R. C., & Hans, S. L. (2020). Young first-time mothers' parenting of infants: The role of depression and social support. *Maternal and Child Health Journal*, 24(5), 575–586. https://doi.org/10.1007/s10995-019-02849-7
- Lee, J. Y., Lee, S. J., Yoon, S., Kirsch, J., Pace, G. T., & Schoppe-Sullivan, S. J. (2023). Family stress processes underlying material hardship and parental detachment and warmth amongst racially diverse fathers and mothers with low income. *Journal of Family Violence*, 39(6), 1075–1091. https://doi.org/10.1007/s10896-023-00583-x
- Leigh, B., & Milgrom, J. (2008). Risk factors for antenatal depression, postnatal depression and parenting stress. BMC Psychiatry, 8(1), 1–11. https://doi.org/ 10.1186/1471-244X-8-24
- Leinonen, J. A., Solantaus, T. S., & Punamäki, R. L. (2003). Social support and the quality of parenting under economic pressure and workload in Finland: The role of family structure and parental gender. *Journal of Family Psychology*, 17(3), 409–418. https://doi.org/10.1037/0893-3200.17.3.409
- Leung, D. W., & Slep, A. M. S. (2006). Predicting inept discipline: The role of parental depressive symptoms, anger, and attributions. *Journal of Consulting* and Clinical Psychology, 74(3), 524–534https://psycnet.apa.org/doi/10.1037/ 0022-006X.74.3.524
- Linver, M. R., Brooks-Gunn, J., & Kohen, D. E. (2002). Family processes as pathways from income to young children's development. *Developmental Psychology*, 38(5), 719–734. https://doi.org/10.1037/0012-1649.38.5.719
- Liu, L., & Wang, M. (2015). Parenting stress and children's problem behavior in China: The mediating role of parental psychological aggression. *Journal of Family Psychology*, 29(1), 20–28https://psycnet.apa.org/doi/10.1037/fam0000047
- Logsdon, M. C., Birkimer, J. C., Ratterman, A., Cahill, K., & Cahill, N. (2002). Social support in pregnant and parenting adolescents: Research, critique, and recommendations. *Journal of Child and Adolescent Psychiatric Nursing*, 15(2), 75–83.
- Lovejoy, M. C., Graczyk, P. A., O'Hare, E., & Neuman, G. (2000). Maternal depression and parenting behavior: A meta-analytic review. Clinical Psychology Review, 20(5), 561–592. https://doi.org/10.1016/S0272-7358(98)00100-7
- Madigan, S., Prime, H., Graham, S. A., Rodrigues, M., Anderson, N., Khoury, J., & Jenkins, J. M. (2019). Parenting behavior and child language: A meta-analysis. *Pediatrics*, 144(4), e20183556. https://doi.org/10.1542/peds.2018-3556
- Manuel, J. I., Martinson, M. L., Bledsoe-Mansori, S. E., & Bellamy, J. L. (2012). The influence of stress and social support on depressive symptoms in mothers with young children. Social Science & Medicine, 75(11), 2013–2020. https://doi.org/10.1016/j.socscimed.2012.07.034
- Masarik, A. S., & Conger, R. D. (2017). Stress and child development: A review of the family stress model. *Current Opinion in Psychology*, 13, 85–90. https:// doi.org/10.1016/j.copsyc.2016.05.008
- Masarik, A. S., Fritz, H., & Lazarevic, V. (2022). Stress and resilience among resettling refugee youth: An illustrative review and new applications for the

- family stress model. *Journal of Family Theory & Review*, 14(2), 207–232. https://doi.org/10.1111/jftr.12454
- Masten, A. S., Lucke, C. M., Nelson, K. M., & Stallworthy, I. C. (2021).
 Resilience in development and psychopathology: Multisystem perspectives.
 Annual Review of Clinical Psychology, 17(1), 521–549. https://doi.org/10.
 1146/annurev-clinpsy-081219-120307
- McConnell, D., Breitkreuz, R., & Savage, A. (2011). From financial hardship to child difficulties: Main and moderating effects of perceived social support. Child: Care, Health and Development, 37(5), 679–691. https://doi.org/10.1111/j.1365-2214.2010.01185.x
- McDaniel, M., & Lowenstein, C. 2013). Depression in low-income mothers of young children: Are they getting the treatment they need, Language development and learning to read: The scientific study of how language development affects reading skill. The Urban Institute. MIT Press, McGuinness, D. (2006)
- McGuinness, D. (2005). Language development and learning to read: The scientific study of how language development affects reading skill. MIT Press.
- McLoyd, V. C. (1998). Socioeconomic disadvantage and child development.
 American Psychologist, 53(2), 185–204https://psycnet.apa.org/doi/10.1037/0003-066X.53.2.185
- Morris, A. S., Robinson, L. R., Hays-Grudo, J., Claussen, A. H., Hartwig, S. A., & Treat, A. E. (2017). Targeting parenting in early childhood: A public health approach to improve outcomes for children living in poverty. *Child Development*, 88(2), 388–397. https://doi.org/10.1111/cdev.12743
- Mortensen, J. A., & Barnett, M. A. (2015). Risk and protective factors, parenting stress, and harsh parenting in Mexican origin mothers with toddlers. Marriage & Family Review, 51(1), 1–21. https://doi.org/10.1080/01494929.2014.955937
- Muthén, L. K., & Muthén, B. O. (2017). Mplus: Statistical analysis with latent variables: User's guide (Version 8). Muthén & Muthén.
- Neppl, T. K., Senia, J. M., & Donnellan, M. B. (2016). Effects of economic hardship: Testing the family stress model over time. *Journal of Family Psychology*, 30(1), 12–21. https://doi.org/10.1037/fam0000168
- Offer, S. (2012). Barriers to social support among low-income mothers. International Journal of Sociology and Social Policy, 3(4), 120–133. https://doi.org/10.1108/01443331211214712
- Östberg, M., & Hagekull, B. (2000). A structural modeling approach to the understanding of parenting stress. *Journal of Clinical Child Psychology*, 29(4), 615–625. https://doi.org/10.1207/S15374424JCCP2904_13
- Pace, A., Luo, R., Hirsh-Pasek, K., & Golinkoff, R. M. (2017). Identifying pathways between socioeconomic status and language development. *Annual Review of Linguistics*, 3(2017), 285–308. https://doi.org/10.1146/annurev-linguistics-011516-034226
- Pearl, A. M., French, B. F., Dumas, J. E., Moreland, A. D., & Prinz, R. (2014). Bidirectional effects of parenting quality and child externalizing behavior in predominantly single parent, under-resourced African American families. *Journal of Child and Family Studies*, 23(2), 177–188. https://doi.org/10.1007/ s10826-012-9692-z
- Radey, M. (2018). Informal support among low-income mothers post welfare reform: A systematic review. *Journal of Child and Family Studies*, 27(12), 3782–3805. https://doi.org/10.1007/s10826-018-1223-0
- Raikes, H., Alexander Pan, B., Luze, G., Tamis-LeMonda, C. S., Brooks-Gunn, J., Constantine, J., Constantine, J., Tarullo, L. B., & Rodriguez, E. T. (2006). Mother-child bookreading in low-income families: Correlates and outcomes during the first three years of life. *Child Development*, 77(4), 924–953. https://doi.org/10.1111/j.1467-8624.2006.00911.x
- Raphael, J. L., Zhang, Y., Liu, H., & Giardino, A. P. (2010). Parenting stress in US families: Implications for pediatric healthcare utilization. *Child: Care, Health and Development*, 36(2), 216–224. https://doi.org/10.1111/j.1365-2214.2009.01052.x
- Rothbart, M. K., & Putnam, S. P. (2002). Temperament and socialization. In L. Pulkkinen, & A. Caspi (Eds.), Paths to successful development: Personality in the life course (pp. 19–45). Cambridge University Press.
- Rothbaum, F., & Weisz, J. R. (1994). Parental caregiving and child externalizing behavior in nonclinical samples: A meta-analysis. Psychological Bulletin, 116(1), 55–74https://psycnet.apa.org/doi/10.1037/0033-2909.116.1.55

- Ryan, R. M., Kalil, A., & Leininger, L. (2009). Low-income mothers' private safety nets and children's socioemotional well-being. *Journal of Marriage and Family*, 71(2), 278–297. https://doi.org/10.1111/j.1741-3737.2008.00599.x
- Saasa, S., Ward, K. P., Sandberg, S., & Jacobson, J. (2021). Financial hardship, neighborhood cohesion and child externalizing behaviors: An extension of the family stress model among immigrant mothers. *Children and Youth Services Review*, 128, 106153. https://doi.org/10.1016/j.childyouth.2021. 106153
- Sattler, K. M. (2022). Protective factors against child neglect among families in poverty. *Child Abuse & Neglect*, 124, 105438. https://doi.org/10.1016/j.chiabu.2021.105438
- Scaramella, L. V., & Leve, L. D. (2004). Clarifying parent-child reciprocities during early childhood: The early childhood coercion model. *Clinical Child* and Family Psychology Review, 7(2), 89–107. https://doi.org/10.1023/B: CCFP.0000030287.13160.a3
- Shaw, D. S., Gilliom, M., Ingoldsby, E. M., & Nagin, D. S. (2003). Trajectories leading to school-age conduct problems. *Developmental Psychology*, 39(2), 189–200.
- Shelleby, E. C., Votruba-Drzal, E., Shaw, D. S., Dishion, T. J., Wilson, M. N., & Gardner, F. (2014). Income and children's behavioral functioning: A sequential mediation analysis. *Journal of Family Psychology*, 28(6), 936–946 https://psycnet.apa.org/doi/10.1037/fam0000035
- Smith, J. D., Dishion, T. J., Shaw, D. S., Wilson, M. N., Winter, C. C., & Patterson, G. R. (2014). Coercive family process and early-onset conduct problems from age 2 to school entry. *Development and Psychopathology*, 26(4pt1), 917–932. https://doi.org/10.1017/S0954579414000169
- Straus, M. A., Hamby, S. L., Finkelhor, D., Moore, D. W., & Runyan, D. (1998). Identification of child maltreatment with the parent-child conflict tactics scales: Development and psychometric data for a national sample of American parents. *Child Abuse & Neglect*, 22(4), 249–270. https://doi.org/10.1016/S0145-2134(97)00174-9
- Taraban, L., Shaw, D. S., Leve, L. D., Natsuaki, M. N., Ganiban, J. M., Reiss, D., & Neiderhiser, J. M. (2019). Parental depression, overreactive parenting, and early childhood externalizing problems: Moderation by social support. Child Development, 90(4), e468–e485. https://doi.org/10.1111/cdev.13027
- **Thompson, R. A.** (1995). Preventing child maltreatment through social support: A critical analysis. Sage Publications, Inc.
- **Tronick, E. Z.** (2007). The neurobehavioral and social emotional development of infants and children. Norton.
- Ungar, M. (2018). The differential impact of social services on young people's resilience. *Child Abuse & Neglect*, 78, 4–12. https://doi.org/10.1016/j.chiabu. 2017.09.024
- Ungar, M. (2019). Designing resilience research: Using multiple methods to investigate risk exposure, promotive and protective processes, and contextually relevant outcomes for children and youth. Child Abuse and Neglect, 96, 104098. https://doi.org/10.1016/j.chiabu.2019.104098
- US Department of Health and Human Services. 2014). The health and well-being of children: A portrait of states and the nation. USDHHS, 2011–2012
- Verhoeven, M., Junger, M., van Aken, C., Deković, M., & van Aken, M. A. (2010). Parenting and children's externalizing behavior: Bidirectionality during toddlerhood. *Journal of Applied Developmental Psychology*, 31(1), 93–105. https://doi.org/10.1016/j.appdev.2009.09.002
- Ward, K. P., & Lee, S. J. (2020). Mothers' and fathers' parenting stress, responsiveness, and child wellbeing among low-income families. Children and Youth Services Review, 116, 105218. https://doi.org/10.1016/j.childyouth.2020.105218
- Warren, E. J., & Font, S. A. (2015). Housing insecurity, maternal stress, and child maltreatment: An application of the family stress model. *Social Service Review*, 89(1), 9–39. https://doi.org/10.1086/680043
- Whittaker, J. E. V., Harden, B. J., See, H. M., Meisch, A. D., & T'Pring, R. W. (2011). Family risks and protective factors: Pathways to early head start toddlers' social-emotional functioning. *Early Childhood Research Quarterly*, 26(1), 74–86. https://doi.org/10.1016/j.ecresq.2010.04.007
- Wu, Q., Radey, M., McWey, L., & Millender, E. F. (2025). Within-family processes among safety nets, maternal parenting stress, and child behavioral problems among low-income families: The importance of race and ethnicity. *Family Process*, 64(1), e13056. https://doi.org/10.1111/famp.13056