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MOTHERS' TEMPERAMENT, ADVERSE CHILDHOOD EXPERIENCES, AND PSYCHOLOGICAL SYMPTOMS: HOW ARE ENDURING MATERNAL CHARACTERISTICS RELATED TO MOTHERS' PERCEPTIONS OF CHILDREN'S TEMPERAMENT, BEHAVIOR PROBLEMS, AND ADAPTIVE FUNCTIONING?

by

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A thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in the Department of Psychology in the College of Sciences at the University of Central Florida Orlando, Florida

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ABSTRACT

Extant literature documented the impact of mothers' characteristics and parenting behaviors on young children's psychosocial outcomes. Additionally, previous studies demonstrated the importance of mothers' adverse childhood experiences in the relationships among some of these constructs. To expand on the existing knowledge, the present study examined the relationships among mothers' temperament, reflective functioning, attributions, and specific parenting behaviors, with reflective functioning and attributions serving as two potential mediating variables in these relationships. A community sample of 224 diverse mothers of young children who were between 2- to 5-years of age rated their own adverse childhood experiences, temperament, reflective functioning, attributions, specific parenting behaviors, satisfaction with their maternal role, and psychological symptoms. Additionally, mothers rated their children's temperament, behavior problems, and adaptive functioning. Statistical analyses were conducted on the overall sample as well as on a subsample of participants who reported a high exposure to adverse childhood experiences. Correlational analyses indicated a variety of significant relationships among the variables of interest. Next, mediational analyses indicated that mothers' attributions mediated the relationship between mothers' temperament and parenting behaviors in both the overall sample and the subsample of mothers who reported high exposure to adverse childhood experiences. Further, hierarchical regression analyses demonstrated that a number of maternal characteristics predicted young children's outcomes. Overall, this study identified unique predictors of mothers' parenting behaviors and of mothers' perceptions of the outcomes experienced by their young children. Most importantly, this study highlighted the importance of

serving families as a whole when wanting to provide lasting improvements to individual and family functioning through intervention services.

TABLE OF CONTENTS

LIST OF FIGURES	vi
LIST OF TABLES	vii
CHAPTER ONE: INTRODUCTION	1
Temperament	2
Mothers' Adverse Childhood Experiences	6
Mothers' Psychological Symptoms	9
Mothers' Parenting Behaviors, Reflective Functioning, and Attributions	12
Mothers' Satisfaction with Their Parenting Role	16
The Present Study	21
CHAPTER TWO: METHODOLOGY	24
Participants	24
Procedure	25
Measures	26
Data Analyses	34
CHAPTER THREE: RESULTS	37
Preliminary Analyses	37
Correlations	41
Mediation Analyses	49
Hierarchical Regression Analyses	56
CHAPTER FOUR: DISCUSSION	69
APPENDIX A: DEMOGRAPHICS QUESTIONNAIRE	<i>7</i> 9
APPENDIX B: ADVERSE CHILDHOOD EXPERIENCES STUDY QUESTIONNAI	RE 83
APPENDIX C: CHILDHOOD TRAUMA QUESTIONNAIRE	86
APPENDIX D: TRAUMA SYMPTOMS CHECKLIST	89
APPENDIX E: DIMENSIONS OF TEMPERAMENT SCALE – REVISED FOR ADV	<i>ULTS</i> 92
APPENDIX F: PARENTAL REFLECTIVE FUNCTIONING QUESTIONNAIRE	96
APPENDIX G: PARENT ATTRIBUTION TEST	99

APPENDIX H: ALABAMA PARENTING QUESTIONNAIRE – PRESCHOO	OL REVISION
	102
APPENDIX I: ADULT SELF-REPORT	105
APPENDIX J: PARENTING SENSE OF COMPETENCE SCALE	110
APPENDIX K: DIMENSIONS OF TEMPERAMENT SCALE – REVISED F	
APPENDIX L: CHILD BEHAVIOR CHECKLIST	117
APPENDIX M: ADAPTIVE BEHAVIOR ASSESSMENT SYSTEM Erro defined.	or! Bookmark not
APPENDIX N: MEDIATION MODEL	130
APPENDIX O: TABLES	132
APPENDIX P: IRB HUMAN SUBJECTS PERMISSION LETTER Erro defined.	or! Bookmark not
REFERENCES	159

LIST OF FIGURES

Figure 1: Mediation Model	3) _	1
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LIST OF TABLES

Table 1. Descriptive Statistics of Variables of Interest for Total and Trauma Samples
Table 2. Correlations Among Mothers' Adverse Childhood Experiences, Temperament, Reflective Functioning, Attributions, and Parenting Behaviors for Total and Trauma Samples
Table 3. Mediational Regression Analyses for Total Sample
Table 4. Mediational Regression Analyses for Trauma Sample
Table 5. Hierarchical Regression Analyses for Young Children's Temperament (General Activity Level) for Total and Trauma Samples
Table 6. Hierarchical Regression Analyses for Young Children's Temperament (Approach-Withdrawal) for Total and Trauma Samples
Table 7. Hierarchical Regression Analyses for Young Children's Temperament (Flexibility-Rigidity) for Total and Trauma Samples
Table 8. Hierarchical Regression Analyses for Young Children's Temperament (Mood Quality) for Total and Trauma Samples
Table 9. Hierarchical Regression Analyses for Young Children's Temperament (Rhythmicity in Daily Habits) for Total and Trauma Samples
Table 10. Hierarchical Regression Analyses for Young Children's Internalizing Problems for Total and Trauma Samples
Table 11. Hierarchical Regression Analyses for Young Children's Externalizing Problems for Total and Trauma Samples
Table 12. Hierarchical Regression Analyses for Young Children's Adaptive Functioning (General Adaptive Composite) for Total and Trauma Samples
Table 13. Hierarchical Regression Analyses for Young Children's Adaptive Functioning (Self-Care Skills) for Total and Trauma Samples

CHAPTER ONE: INTRODUCTION

Outpatient treatment settings often attract parents who believe that their children's internalizing and externalizing behavior problems have impaired their children's functioning and familial relationships significantly. Commonly, these parents are interested in interventions that will improve their children's behavior problems and the comorbid relational difficulties that have occurred in conjunction with these behavior problems. In order to provide the most effective interventions, more must be known about the predictors of mothers' perceptions of their children, particularly during children's younger years. For example, characteristics of interest may include mothers' temperament, adverse childhood experiences, and psychological symptoms. Clearly, previous research suggested that these variables were interrelated, but fewer studies have extended mothers' characteristics (particularly their adverse childhood experiences) to understanding their perceptions of their parenting and their young children's characteristics. Additional research is needed.

Consequently, the current study advanced the existing research literature by examining mothers' temperament, adverse childhood experiences, and psychological symptoms (e.g., depression, anxiety) in relation to mothers' parenting behaviors, reflective functioning, and perceived control over failure. Further, mothers' perceptions of their young children's temperament, behavior problems, and adaptive functioning were examined within the context of mothers' characteristics so that intervention approaches may be used fully to address the most appropriate targets (i.e., mothers' characteristics, parenting behaviors, or children's characteristics) when services are provided to families of young children. These constructs will be discussed here.

Temperament

Temperament, or the stable individual differences that characterize an individual's disposition for emotional reactivity, self-regulation, and behavioral tendencies, is influenced by the interaction of inherited genetic traits and early childhood experiences (Goldsmith et al., 1987) and is moderately stable over time (Thomas, Chess, & Birch, 1968). Emotional reactivity can be described as the degree of emotional arousal with which an individual responds to unfamiliar stimuli in the environment (Kagan, 1994). Further, self-regulation refers to the processes that modulate reactivity, including effortful control or individuals' ability to regulate their own behavior and attention (Rothbart, Sheese, Rueda, & Posner, 2011). Such characteristics, along with behavioral tendencies, are important for understanding individuals' functioning.

To more succinctly describe temperament, it should be noted that Thomas, Chess, and Birch (1986; Thomas & Chess, 1977) identified three specific styles in their examination of children's behavioral tendencies. These styles were described as *easy*, *slow-to-warm-up*, and *difficult*. Children who displayed an easy temperament exhibited regular eating and sleeping schedules, a positive approach to novel situations and unfamiliar individuals, and a high frustration tolerance. Easy children adapted well to environmental alterations and changes in routine and generally displayed positive affect (Thomas & Chess, 1977). Next, slow-to-warm-up children exhibited fairly routine eating and sleeping patterns but were observed to display mildly negative affective responses in novel situations and with unfamiliar individuals. Children who were slow-to-warm-up generally accepted these situations and individuals with repeated exposure and familiarity (Thomas & Chess, 1977). Finally, Thomas and colleagues (1986)

originated the construct of difficult temperament and hypothesized that it was an especially important factor in the development of externalizing behavior problems. In particular, difficult temperament referred to an intense expression of negative affect (Bates, Freeland, & Lounsbury, 1979; Bates, Maslin, & Frankel, 1985). Children who had a difficult temperament generally exhibited irregularities in basic functions, such as eating and sleeping. Additionally, they tended to approach novel experiences with a negative affect (e.g., crying and throwing tantrums when frustrated) and adapted to changes in their environment or routine relatively slowly. These patterns of behavior could lead to oppositional and aggressive tendencies (Thomas & Chess, 1977).

There also appeared to be some related components that accompanied the behavioral tendencies described with these styles. For example, sociability, or the degree of openness or timidity in individuals' approaches to unfamiliar people and novel experiences, was one component, with low sociability reflecting internalizing difficulties (Bates et al., 1985). Further, variability in activity level in early childhood (i.e., the preschool years) also had important implications for personality development and social adjustment as children mature (Buss, Block, & Block, 1980; Campbell, Szumowski, Ewing, Gluck, & Breaux, 1982). Thus, the characteristics of temperament, sociability, and activity level were interrelated with each other and with early childhood experiences in the development of individual styles that become stable across situations and across the developmental lifespan.

As it was thought that children inherit these characteristics from their parents, parents' own temperament may impact their reactions to and perceptions of their children. Unfortunately, the effect of parent temperament has not been researched widely with regard to its direct or indirect influences on children's temperament. Despite the limited research conducted since

Thomas and Chess's (1977) initial hypotheses regarding the relationship between parents' temperament and children's functioning, it can be gathered from the previously discussed studies that mothers' temperament and their children's temperament were related. In particular, data from the New York Longitudinal Study were used to determine that the relationship between mothers' and children's temperament was bidirectional. This finding suggested that mothers who displayed more maternal-role dissatisfaction and rejection of their children had more difficult children (Lerner & Galambos, 1985). Others demonstrated that parental distress and punitive reactions towards children's negative emotionality and self-regulation were correlated with children's social functioning and behavior problems (Eisenberg et al., 1999). To summarize, the research that was conducted on the roles of parents' temperament and reactions to children's negative emotionality and behavioral difficulties determined that there was a clear bidirectional relationship between these two variables, suggesting that parents' and children's temperament had a transactional effect on each other.

Further, the relationship between mothers' and children's temperament may need to include parenting and related behaviors that are exhibited by mothers. Such connections could be important, given that parenting differences in child socialization and parents' behavior management techniques were related greatly to children's behavior as they matured. For example, children who were low in reactivity and who met challenges from consistent and effective parents in a stable home environment were likely to become well-adjusted and accomplished. In contrast, children who were low in reactivity but whose parents provided inconsistent punishment and were unable to maintain a stable environment became prone to delinquency despite similar dispositions in infancy and early childhood (Kagan, 2003). Thus, research appeared to suggest that there are important interactions among these variables.

Another contributing factor to the relationship between mothers' and children's temperament was mothers' reactions. Mothers' negative versus positive reactions toward their children was one of the strongest and most consistent predictors of children's temperament and psychosocial functioning (Chen, Deater-Deckard, & Bell, 2014). Chen and colleagues (2014) examined mothers' ratings of several aspects of their children's temperament and compared these ratings with observer ratings of maternal negativity and positivity. Findings indicated that children's temperament moderated the relationship between maternal negativity and positivity and children's externalizing behavior problems were most related when children also were high in negative affectivity. This finding supported the notion that mothers' and children's temperament were interrelated highly (Chen et al., 2014).

Similarly, Atzaba-Poria, Deater-Deckard, and Bell (2014) examined maternal positivity and negativity and children's externalizing behavior problems. They found that maternal negativity was related to higher levels of children's behavior problems. Higher levels of mothers' negativity also were related to their increased negative affect (Atzaba-Poria et al., 2014).

Interestingly, mothers' temperament only related to mothers' attitude toward their children when their children's behavior problems were high, suggesting that externalizing behavior problems in children may moderate the relationship between mothers' temperament and positivity or negativity (Atzaba-Poria et al., 2014). Additionally, mothers' traits, such as higher negative emotionality, were related to mothers' ratings of similar traits in their children, suggesting the bidirectional relationship of temperament on maternal-child personality and behavior patterns (Hayden, Durbin, Klein, & Olino, 2010). Collectively, these studies indicated that mothers'

perceptions of their children reflected their own temperament <u>and</u> were related to children's temperament as children mature.

Given the lack of research devoted to examining these specific relationships, the present study will examine mothers' temperament as it relates to young children's temperament and psychosocial functioning. This relationship was examined in the context of other noted relationships between mothers' temperament and mothers' own early adverse childhood experiences (i.e., childhood trauma), psychological symptoms, parenting behaviors, and reflective functioning. Given the noted relationship with mothers' temperament, mothers' adverse childhood experiences will be discussed next.

Mothers' Adverse Childhood Experiences

Adverse childhood experiences may include childhood maltreatment and a variety of other difficult childhood experiences. This term may refer to abuse (e.g., physical, emotional, and/or sexual) and neglect, with such experiences known to greatly impact childhood (Clarkson Freeman, 2014), adulthood, and parenting outcomes. In particular, individuals who experienced childhood maltreatment were at heightened risk for mental health problems (e.g., depressive symptoms, post-traumatic stress symptoms) and dissatisfaction with adult relationships.

Moreover, individuals who experienced other types of adverse childhood experiences in addition to or other than maltreatment (e.g., witnessing domestic violence; living with household members who were substance abusers, had a mental illness, were suicidal, or engaged in criminal behavior and were imprisoned) were at increased risk for other health disorders in adulthood (e.g., drug abuse, alcoholism, suicide attempt, obesity, sexually transmitted infections, heart disease, cancer, lung disease, liver disease; Felitti et al., 1998). Overall, Felitti and colleagues'

(1998) Adverse Childhood Experiences study (ACEs) found that childhood exposure to household dysfunction led to significantly heightened risk for several leading causes of death in adults (Felitti et al., 1998).

Additionally, these experiences from parents' childhoods can impact significantly and negatively these parents' relationship with their own children (Lang, Garstein, Rodgers, & Lebeck, 2010). For example, traumatic experiences during childhood often resulted in mothers having difficulty or an inability to provide responsive, contingent, and positive care and exhibiting withdrawn, avoidant, and hostile parenting behaviors. Such behaviors led to children's dysregulation in temperament and behavior (Enlow et al., 2011). Further, parents who were abused as children exhibited less confidence in their parenting roles, thus acting more permissively, setting fewer boundaries, and inappropriately relying on children as providers of emotional support (Banyard, 1997; DiLillo & Damashek, 2003; DiLillo, Tremblay, & Peterson, 2000).

Extant literature examining the relationship between mothers' childhood experiences and young children's outcomes showed that infants whose mothers reported post-traumatic stress symptoms experienced higher emotional reactivity and difficulty with self-regulation. In one study, mothers reported on their own trauma histories as well as their infants' emotional reactivity and emotional regulation from birth to 12-months of age. Results showed that mothers' self-reported trauma histories were associated with disrupted emotional regulation in their infants, with these emotional and behavioral irregularities emerging early. These findings suggested that mothers' trauma histories may be related highly to their infants' increased risk for emotional and behavioral problems (Enlow at al., 2011). Moreover, distress associated with mothers' childhood abuse was found to be a risk factor for mothers' perceptions of externalizing

behavior problems in their children (Min, Singer, Minnes, Kim, & Short, 2013). Further, research suggested that difficult experiences need not be outward abuse. Mothers' experiences of rejection from their own mothers was related later to rejecting their own infants (Main & Goldwyn, 1984).

The ramifications of mothers' adverse childhood experiences for children may, in fact, be related highly to mothers' attachment status with their own early attachment figures. Research in this area utilized the Adult Attachment Interview (AAI), during which parents were given the opportunity to describe and evaluate their childhood attachment relationships, loss or separation from attachment figures, and the impact of these experiences. During the completion of this interview, the extent to which parents contradict or fail to support their initial descriptions of their childhood experiences was noted. For example, parents were asked to generate five adjectives to describe their childhood relationship with each of their caregivers as well as to produce a specific memory or story supporting each adjective (Main, 1996). Based on responses, interviewees' state of mind was coded and classified as secure-autonomous when parents' responses were coherent and the parent appeared to value attachment regardless of favorable or unfavorable experiences; as dismissing when parents normalized their experiences and provided positive descriptions of their caregivers but produced memories that failed to support or contradicted these claims; as preoccupied when parents seemed angry, confused, fearful, or overwhelmed with regard to their early experiences with caregivers; and as unresolveddisorganized when parents discussed significant loss or abuse and exhibited a "striking lapse (or lapses) in the monitoring of reasoning or discourse" (Main, 1996, pp. 238). For example, the parent may have spoken of a dead person as if that individual was still alive (Main, 1996).

Research using the AAI suggested that mothers' state of mind was related to their infants'

response during the Strange Situation. In particular, during the Strange Situation, infants' attachment to their parents corresponded repeatedly and highly with parents' attachment status to their own caregivers. Infants tended to exhibit secure attachment (i.e., infants appeared to miss their parent or cry during separation, greeted their parent actively, were soothed easily, and returned to play upon their parents' return) to parents who were classified as secure-autonomous; avoidant attachment (i.e., infants did not cry and continued playing upon separation, actively avoided and ignored their parents upon reunion, and were unemotional upon their parents' return) to parents who were classified as dismissing; resistant-ambivalent (i.e., infants were preoccupied with their parents throughout session, appeared angry, alternated seeking and resisting their parents, and failed to be soothed or return to play upon their parents' return) to parents who were classified as preoccupied; and disorganized-disoriented (i.e., infants exhibited disorganized or disoriented behavior while their parents were present) to parents who were classified as unresolved-disorganized (Hesse & Main, 1999; Main, 1996; Main, 2000). Given these findings, it became clear that the links among these variables deserve to be examined further, particularly as a context for further understanding mothers' perceptions of their young children's functioning. Mothers' psychological symptoms will be discussed next.

Mothers' Psychological Symptoms

In addition to identifying the importance of mothers' adverse childhood experiences for their children's outcomes, studies found that mothers' psychological symptoms also were related significantly to their children's characteristics. For example, early studies demonstrated that mothers' depression (Fergusson, Horwood, & Shannon, 1984; Richman, Stevenson, & Graham, 1982) and neuroticism (Graham & Stevenson, 1985) were associated with mothers' ratings of

their children's behaviors. In particular, mothers with depressive symptoms were noted to perceive their children as being more maladjusted (Friedlander, Weiss, & Traylor, 1986), to have more negative perceptions of their children overall, and to engage in more aversive parenting styles (Pannaccione & Wahler, 1986) than mothers who did not experience depressive symptoms. Early on, however, there were few studies examining the link between mothers' psychological symptoms and their perceptions of their children's temperament. Nonetheless, Lancaster, Prior, and Adler (1989) examined the association between mothers' characteristics and children's temperament. Consistent with the aforementioned extant literature, they found that mothers' own psychological symptoms (e.g., depression, anxiety) were related strongly to their ratings of their children's temperament.

Since this early research, numerous studies over the past decade detailed various aspects of the relationship between mothers' depressive symptoms and their children's outcomes throughout early childhood. For example, mothers' sensitivity to children was noted to vary as a function of their depressive symptoms, in that higher levels of mothers' depressive symptoms were related to their lower sensitivity and lower levels of mothers' depressive symptoms were associated with higher sensitivity (Campbell, Matestic, von Stauffenberg, Mohan, & Kirchner, 2007). Campbell and colleagues (2007) further examined longitudinal outcomes for children when they were in the First Grade and found that children's outcomes varied as a function of their mothers' depressive symptoms as well. Clearly, mothers' higher ratings of their own depressive symptoms were related to their perceptions of their children's internalizing and externalizing behavior problems (Campbell et al., 2007).

Similarly, Foster and colleagues (2008) concluded that longer and more current depressive episodes in mothers were associated with a higher risk of internalizing and

externalizing problems in school-aged children. Longitudinal studies found that children who were followed from 3- to 10-years of age demonstrated more externalizing behavior problems when they were 10-years of age if their mothers experienced higher levels of depressive symptoms when these children were 3-years of age (Choe, Olson, & Sameroff, 2014).

Additionally, Choe and colleagues (2014) found that these children's externalizing behavior problems were moderated by children's effortful control in preschool and by child gender.

Further, a recent study suggested that both parents' depressive symptoms were related to perceptions of more difficult temperament in children (Kerstis, Engström, Edlund, & Aarts, 2013), suggesting that parents' psychological symptoms and children's temperament likely were associated bidirectionally with significant implications for children's adjustment.

Collectively, the studies described above provided several conclusions regarding the relationship between mothers' depressive symptoms and children's functioning. First, there were distinct relationships among mothers' depressive symptoms, children's temperament, and children's psychosocial functioning. Additionally, it was apparent that the relationship between mothers' psychological symptoms and children's functioning was bidrectional. Finally, the majority of this literature was focused primarily on mothers' depressive symptoms, leaving a noticeable gap with regard to other psychological symptoms that mothers may experience and the relationship of these symptoms to children's temperament and psychosocial functioning. As a result, the present study examined other psychological symptoms that mothers may experience along with depressive symptoms and the relationship of these symptoms to their young children's outcomes. Given the relationship between mothers' psychological symptoms and parenting, parenting behaviors, reflective functioning, and attributions will be discussed next.

Mothers' Parenting Behaviors, Reflective Functioning, and Attributions

Certainly, parenting behaviors also would be considered important predictors of children's temperament and psychosocial functioning but likely would be particularly important in the context of mothers' own temperament, adverse childhood experiences, and psychological symptoms. Certain parenting behaviors or styles can promote positive outcomes in children, whereas others can foster more negative outcomes. Baumrind (1971, 1991; Baumrind, Larzelere, & Owens, 2010) determined that parenting behaviors were based in two critical components (i.e., control and warmth) and that these behaviors could be varied to result in four unique parenting styles. Control referred to parents' management of their children's behavior and can range from extremely controlling to extremely permissive, whereas warmth referred to parents' acceptance of and responsiveness to their children's behavior. Different combinations of control and warmth resulted in one of the following four parenting styles: authoritative, authoritarian, permissive, and uninvolved or rejecting-neglecting (Baumrind, 1991).

With regard to these parenting styles, parents who practiced an authoritative style encouraged independence in their children while setting appropriate boundaries and maintaining control. Additionally, authoritative parents allowed for open discussions and valued their children's opinions. These behaviors promoted social competence, responsibility, healthy adjustment, and autonomy in children as they matured (Baumrind, 1991). On the other hand, authoritarian parents engaged in overly strict and often punitive discipline, believed that parents' rules should be accepted without question or discussion, and did not encourage independence as children matured into adolescence. Research showed that children of authoritarian parents became maladjusted and excessively dependent or completely rebellious, sometimes acting

aggressively toward their parents (Baumrind, 1991).

Next, parents who observed a permissive style displayed appropriate warmth but placed minimal demands on their children. These parents often were considered to be indulgent and passive and did not provide appropriate guidance or support. As children of permissive parents got older, they lacked responsibility and self-control, which resulted in negative social and societal consequences (Baumrind, 1991). Finally, rejecting-neglecting or uninvolved parents were not warm and did not place demands or set limits for their children. In fact, rejecting-neglecting parents tended to keep their parent-child interactions minimal and were indifferent toward their children's needs and experiences. As a result, children of uninvolved parents learned that little time should be invested in parenting and thus invested little time in their own children typically (Baumrind, 1991).

Thus, research suggested that parenting behaviors and children's behavior patterns were related bidirectionally. Specifically, children whose parents endorsed parenting behaviors such as poor monitoring/supervision, inconsistent discipline, and corporal punishment displayed significant externalizing behavior problems and met study criteria for disruptive behavior disorders (Shelton, Frick, & Wootton, 1996). Further evidencing the relationship between parenting behaviors and children's externalizing behavior problems was the finding that parents' level of involvement, corporal punishment, monitoring/supervision, and consistency were all predictive of children's conduct problems (Frick, Christian, & Wootton, 1999). Moreover, parenting styles also predicted children's internalizing behavior problems, and children's irritability predicted more inconsistent discipline (Lengua & Kovacs, 2005). Such findings suggested that children's temperament and parenting behaviors were implicated collectively in children's overall adjustment (Lengua & Kovacs, 2005). As such, research indicated that

authoritative parenting, which provided stability with regard to appropriate affection, support, and control, resulted in optimal outcomes for children and adolescents, allowing them to gain the skills necessary for becoming autonomous and responsible individuals (Steinberg, 2001).

Though the association between parenting behaviors and child outcomes was established clearly, the role of parents' reflective functioning in this relationship is less understood. Reflective functioning was a term used to describe the concept of mentalization (Esbjørn et al., 2013; Fonagy, Gergely, Jurist, & Target, 2002) and referred to individuals' understanding of themselves and others as "motivated by internal mental states such as feelings, beliefs, intensions, and desires" (Fonagy, Target, Steele, & Steele, 1998, p. 8, as cited in Esbjørn et al., 2013). Researchers often considered reflective functioning in conjunction with metacognition, or individuals' ability to monitor their own thought processes. Metacognition captured individuals' ability to think about beliefs and desires in the self and in others and considered the awareness that they possess into "the emotional and motivational processes underlying behavior in the self and others" (Steele & Steele, 2008, p. 139). At the lower end of the metacognitive range, individuals did not tend to consider others' motives or even their own actions and responses. In the moderate range, there is a general understanding of others' motives, but this understanding is rarely applied to individuals' own experiences or conclusions about others' behavior. At the higher end, individuals are organized and consistent in understanding the motivations that guide their own and others' behavior (Steele & Steele, 2008).

Research suggested that reflective functioning relied on a deeper understanding of others' internal states and that metacognition played a role in reflective functioning as a whole (Steele & Steele, 2008). Other research indicated that the terms of metacognition and reflective functioning may be used interchangeably and depicted the same concept (Ringel, 2011). Regardless of the

preferred termed that was used, those parents who had higher reflective functioning, or metacognition, could better understand their own and others' emotions and, thus, could regulate their affect and behaviors toward others (Fonagy & Bateman, 2006). Parents who were high in reflective functioning theoretically also should have the capacity to understand their own emotions, regulate those emotions, and demonstrate appropriate parenting toward their children. In fact, several researchers concluded that children of parents who had high reflective functioning were attached more securely and experienced higher self-esteem and more functional psychosocial outcomes (Fonagy, Steele, Steele, Morgan, & Higgitt, 1991; Slade, Grienenberger, Bernbach, Levy, & Locker, 2005; Steele & Steele, 2008).

Nonetheless, childhood maltreatment also was related to reflective functioning, as childhood maltreatment could hinder individuals' capacity for mentalization (Fonagy & Target, 1997). It also was demonstrated that high reflective functioning could serve as a protective factor against developing psychological symptoms after experiencing childhood maltreatment (Borelli, Compare, Snavely, & Decio, 2014), thus leading to more appropriate and functional parenting practices. Reflective functioning still is a relatively new, albeit empirically supported, concept, and research on parents' reflective functioning still is fairly limited. In particular, it is unclear how reflective functioning is related specifically to parenting behaviors; thus, the present study expanded on the literature by examining the relationship that exists between parenting behaviors and reflective functioning.

Another important concept to consider when attempting to understand others' internal states is the idea of attributions, a term that described individuals' perceived control over failure in their interactions with others (Bugental, Blue, & Cruzcosa, 1989). In particular, Bugental and colleagues (1989) examined attributions in the context of caregivers' perceptions of the

controllability of negative caregiving outcomes. More specifically, adults who had lower perceived control over negative life events responded more negatively to children with more difficult temperaments than did adults who had higher perceived control over negative life events (Bugental et al., 1989). Additionally, mothers who rated themselves as having low perceived control over failure were found to be at risk for physically abusive caregiving (Bugental et al., 1989). Further, mothers with lower perceived control believed that their children could control their own behavior problems (Bondy & Mash, 1999). Thus, the present study also contributed to the existing literature on attributions and parenting behaviors and expanded the literature specifically in the context of positive, negative/inconsistent, and punitive parenting behaviors. Mothers' satisfaction with their parenting role will be discussed in the next section.

Mothers' Satisfaction with Their Parenting Role

Parenting behaviors cannot be considered alone without considering and understanding mothers' satisfaction or dissatisfaction in their role as a parent. Satisfaction in the context of parenting was used to describe parents' feelings of frustration, anxiety, and motivation in their parenting roles (Johnston & Mash, 1989). As mentioned previously, mothers who expressed higher dissatisfaction in their maternal role perceived their children to exhibit a more difficult temperament (Lerner & Galambos, 1985). Additionally, maternal satisfaction or dissatisfaction was an important variable that factors into mothers' perceptions of children's temperament and that also should be examined in the context of mothers' relationships with their children and their parenting behaviors (Isabella, 1994). Although studies examined mothers' role satisfaction as it related to self-esteem (Barnett, 1982), psychological symptoms (Voydanoff & Donnelly, 1989),

and other relational satisfaction (Elman & Gilbert, 1984; Hirsch & Rapkin, 1986; Majewski, 1986), few studies examined maternal role satisfaction as a determinant of parenting behaviors.

One study (Isabella, 1994) examined first time mothers' satisfaction with their parenting roles longitudinally from four months postpartum through their newborns' first year, however. In this study, mothers were asked about the time and energy that they devoted to their parenting role, the priority that they assigned to their role as a mother, their satisfaction with their maternal role, and their satisfaction with regard to the time and energy that they spent in their role. Additionally, mothers' interactions with their infants and their parenting behaviors were observed when children were 9-months of age, and infant-mother attachment was observed when babies were 12-months of age using the Strange Situation (Ainsworth & Wittig, 1969). This study demonstrated that mothers' role satisfaction was indeed an important consideration to understanding mothers' perceptions of and relationships with their young children as well as their parenting behaviors (Isabella, 1994). Specifically, mothers' role satisfaction at four months postpartum predicted their parenting behaviors at nine months postpartum. Additionally, as predicted, high levels of maternal role satisfaction when infants were 9-months of age predicted secure mother-infant attachment at 12-months of age (Isabella, 1994). It was clear from this study that mothers' satisfaction in their parenting role was a salient influence on their overt parenting behaviors.

Moreover, studies have examined mothers' role satisfaction with regard to children's emotional functioning (Katainen, Räikkönen, Keskivaara, & Keltikangas-Järvinen, 1999).

Another longitudinal study followed mothers and children when children were 6- to 15-years of age. Maternal role satisfaction and children's emotional functioning, among other variables of interest, were examined using self-report measures (Katainen et al., 1999). Mothers reported on

their maternal role satisfaction in the first phase of the study, when children were 6-years of age. Additionally, children reported their own depressive tendencies when they were 15-years of age. This study demonstrated that maternal role satisfaction was, in fact, one of the variables that predicted adolescent depression, particularly in girls. Overall, low levels of mothers' satisfaction in their parenting role directly and indirectly predicted adolescent outcomes with regard to emotional functioning (Katainen et al., 1999).

Further, it was important to note the relationship between parents' perceptions of children's emotional and behavioral functioning and their own satisfaction in their parenting role (Johnston & Mash, 1989). In one study, parents of 4- to 9-year olds were asked to complete questionnaires regarding their satisfaction in their parenting roles and their perceptions of their children's emotional and behavioral functioning, among other variables of interest. It was found that parents who reported lower levels of satisfaction in their parenting role also reported more perceived behavior problems in their children (Johnston & Mash, 1989). Overall, extant literature demonstrated that there were clear connections among role satisfaction as a mother or father, parenting behaviors, and parents' perceptions of children's outcomes. More research is needed to examine the link between maternal role satisfaction and young children's outcomes as a step toward appropriately targeting intervention strategies to improve mother-child relationships as a whole and mothers' and children's individual emotional and behavioral outcomes. Mothers' perceptions of their children's psychosocial and adaptive functioning will be discussed in the next section.

Young Children's Psychosocial and Adaptive Functioning

Mothers' perceptions of their young children's psychosocial and adaptive functioning will be addressed collectively in this section. Specifically, the majority of the research on this topic used parents' reports, thus suggesting that research often relied exclusively on parents' perceptions to describe children's functioning. Parents' perceptions of their children were related to the manner in which parents interacted with their children. For example, research examining the parent-young child temperament relationship found a relationship between parents' perceptions of children's temperament and children's adjustment (Brody, 1988). Similarly, others showed that parents of more well-adjusted preschoolers rated their young children as being high in sociability and low in emotionality and activity level when compared with young children who were less well-adjusted (Jewsuwan, Luster, & Kostelnik, 1993). Overall, these findings indicated that the bidirectional relationship between parents' and children's temperament may be related to young children's behavior problems.

Further, Aring and Renk (2010) found that young children's temperament was related significantly to the parent-young child relationship, in that parents' positive perceptions of their young children were associated with parents' involvement and effective communication with their young children. Additionally, parents' perceptions of their young children may be related to young children's views of themselves, prompting young children to exhibit certain emotional and behavioral characteristics that would be consistent with parents' perceptions and suggesting a bidirectional relationship (Aring & Renk, 2010). Parents' perceptions of their young children also may be related to parenting styles and overall family functioning. For example, additional examination of parents' perceptions and family functioning demonstrated that "child negative

affect and family functioning have a direct impact on childhood internalizing symptoms" (Crawford, Schrock, & Woodruff-Borden, 2011, p. 59). This finding indicated that parents' characteristics played a significant role in children's early temperament, as negative affect in early childhood was similar to high emotionality in infancy (i.e., including sad, fearful, or frustrated reactions to unfamiliar situations; Crawford et al., 2011). Others suggested that internalizing and externalizing behavior problems in children were associated with parents' perceptions of and reactions to their children (Coplan, Reichel, & Rowan, 2009).

Mothers' characteristics also may be related to their ratings of their family and children, as mothers with psychosocial difficulties reported poorer family functioning, more child psychosocial problems, and poorer overall child functioning (Kinsman & Wildman, 2001). In fact, mothers who were distressed over their personal psychosocial functioning may perceive their children's temperament, behavior, and overall functioning more negatively than parents who are not experiencing similar difficulties. This notion would be consistent with past research stating that parents with psychosocial distress rated their children as experiencing more significant psychosocial difficulties than non-parent raters (Friedlander et al., 1986). More recently, Hughes, Hedtke, and Kendall (2008) concluded that parents' reports of poorer family functioning were related to significantly worse child outcomes in children who were already experiencing internalizing behavior problems (i.e., anxiety). Additionally, consistent with previously discussed research, parents' psychological symptoms also predicted worse child outcomes (Hughes et al., 2008). Collectively, studies consistently evidenced the bidirectional relationship between parents' perceptions and children's functioning. Thus, the current study worked to corroborate such results.

Additionally, it was important to consider young children's adaptive functioning as it relates to parents' own characteristics (i.e., temperament, ACEs, psychological symptoms, reflective functioning, attributions, parenting behaviors, and satisfaction). Adaptive functioning described perhaps one of the most important goals during early childhood. During early childhood, young children must develop the foundations of communication, self-care skills, preacademic skills, appropriate social behaviors, and motor skills, amongst other skills (Oakland & Algina, 2011). These skills are the fundamental prerequisites to adequate, independent functioning in the home, school, and community (Oakland & Algina, 2011). Barring disorders that physically or mentally prevented the timely and successful acquisition of these vastly important developmental and life skills, achievement of such milestones was highly contingent on invested caregivers. Thus, the present study aimed to examine the relationship among mothers' own characteristics and their perceptions of their children's adaptive functioning skills.

The Present Study

Given the importance of mothers' characteristics (e.g., temperament; Chen, Deater-Deckard, & Bell, 2014) and parenting behaviors (Frick, Christian, & Wootton, 1999; Lengua & Kovacs, 2005; Shelton, Frick, & Wootton, 1996) for children's psychosocial and adaptive outcomes, the present study examined a collective model of young children's psychosocial functioning and adaptive functioning using mothers' characteristics and parenting behaviors as predictors. The purpose of this study was to contribute findings to the existing literature and, thus, contribute information that could be valuable to enhancing interventions aimed at improving parenting practices, particularly for parents who have been impacted significantly by

their own temperament, psychological symptoms, and adverse childhood experiences (e.g., trauma).

The first aim of the present study was to examine the relationship between mothers' characteristics and their specific parenting behaviors. It was hypothesized that mothers' temperament and parenting behaviors would be related significantly. Specifically, it was hypothesized that mothers' easier temperament would be related positively and significantly to more positive parenting behaviors and to higher reflective functioning and perceived control. Additionally, it was hypothesized that mothers' own adverse childhood experiences would be important predictors of their parenting behaviors, reflective functioning, and perceived control, with mothers who had adverse childhood experiences showing more decrements in parenting behaviors, reflective functioning, and perceived control.

The second aim of this study was to examine the relationships among mothers' temperament, reflective functioning and perceived control, and parenting behaviors. In particular, it was anticipated that reflective functioning and perceived control would mediate the relationship between mothers' temperament and parenting behaviors (see Figure 1). Although there was no reason to believe that this mediational relationship would not hold for mothers who did or did not have a history of adverse childhood experiences, it was expected that mothers who had a history of adverse childhood experiences would demonstrate more difficult temperament, lower reflective functioning, lower perceived control, and more negative parenting behaviors. See Figure 1.

The last aim of the study was to determine the value of mothers' temperament, reflective functioning, perceived control, and parenting behaviors on young children's temperament, behavior problems, and adaptive functioning. To study these relationships, a series of

hierarchical regression analyses were conducted with mothers' characteristic variables entered into Block 1, mothers' reflective functioning and perceived control entered into Block 2, and mothers' parenting behaviors entered into Block 3 to predict young children's temperament, behavior problems, and adaptive functioning.

CHAPTER TWO: METHODOLOGY

Participants

Data for this study were collected from mothers who had children whose ages ranged from 2- to 5-years old. Mothers were recruited via an Internet crowdsourcing community, with 100% being recruited via Amazon Mechanical Turk. Participants were provided with monetary compensation of \$2.00 upon completion of the study. There were 2,845 individuals who initiated the online survey. Overall, 2,433 individuals were disqualified for various reasons, such as living outside of the United States, being male, not being a parent, being under the age of 18-years, and having a child outside of the range of interest. Of those individuals who qualified, 162 initiated but did not complete the survey, and an additional 250 qualified and completed the survey. Of the 250 mothers whose responses were initially examined, 26 additional participants were disqualified for incorrect responses on more than two of the randomly dispersed validity questions instructing participants to select a particular response. Thus, a sample of 224 mothers ultimately was examined in this study.

With regard to the 224 mothers whose responses were examined, their mean age was 31.82-years (*SD*=6.34-years). With regard to mothers' ethnicity, 78.1% reported being Caucasian, 6.7% reported being African American, 5.8% reported being Hispanic, 3.6% reported being Asian American, 3.6% reported being multiracial, 0.4% reported being Native American, and 1.8% reported being of another unlisted ethnicity. With regard to marital status, 68.3% of mothers reported being married, 18.0% were living with a partner, 6.7% were single, 3.1% were divorced, 1.8% were separated, 1.3% were remarried, 0.4% were widowed, and 0.4% declined to answer. With regard to level of education, 8.5% reported obtaining a high school diploma, 7.6%

reported having vocational training, 36.2% reported having attended some college, 35.7% reported having obtained a Bachelors Degree, 11.6% reported having graduate professional training, and 0.4% reported a Post Doctorate education. Mothers also reported on their yearly income, with 0.9% reporting less than \$10,000, 4.0% reporting \$10,000-\$20,000, 14.3% reporting \$20,000-\$30,000, 9.4% reporting \$30,000-\$40,000, 10.7% reporting \$40,000-\$50,000, 8.0% reporting \$50,000-\$60,000, 15.2% reporting \$60,000-\$70,000, 11.6% reporting \$70,000-\$80,000, 4.0% reporting \$80,000-\$90,000, 5.4% reporting \$90,000-\$100,000, 1.8% reporting \$110,000-\$120,000, 2.2% reporting \$120,000-\$130,000, 1.8% reporting \$130,000-\$140,000, 1.8% reporting \$140,000-\$150,000, and 4.0% reporting >\$150,000.

Regarding the demographics of the mothers' young children, 54.3% of these young children were female, whereas 45.7% of these young children were male. Young children's mean age was 3.40-years (*SD*=1.05-years). Young children's ethnicities varied, with 75.5% being Caucasian, 9.8% being multiracial, 6.7% being African American, 4.9% being Hispanic, 2.7% being Asian American, and 0.4% being Native American.

Procedure

Following approval from the University of Central Florida IRB, a posting was created on Amazon Mechanical Turk to recruit mothers for participation. The research questionnaires were administered via an online survey that was accessed by following the provided link. Upon accessing the survey, mothers first were asked to review a consent form and to indicate their agreement to participate in the study. Mothers then were instructed to provide ratings on each of the measures described below. Finally, mothers viewed a debriefing screen following their completion of the study. The debriefing screen explained the intent of the study and provided

references to relevant literature should participants be interested. A physical version of this survey was available in the event that mothers preferred to not complete the survey online; however, none of the participants requested this version of the study questionnaires.

According to usage statistics generated by the survey host site, the entire survey took an average of 40 minutes to complete. During participation, mothers were able to contact one of the investigators via telephone or email regarding any questions or concerns. All collected information was stored online securely following completion of the survey. All electronic data were downloaded from the online data collection program and stored on a password protected computer in the faculty mentor's laboratory. No personally identifying information was required as part of the study. Finally, all data was analyzed in a group format, and no surveys were examined individually.

Measures

Demographics

To begin the survey, participants completed a brief demographic questionnaire that included questions regarding mothers' and their young children's ages, ethnicities, sex, and other relevant information regarding the household. See *Appendix A* for a sample of the demographics questionnaire.

Mothers' Difficult Childhood Experiences

The Adverse Childhood Experiences Study Questionnaire (Felitti et al., 1998) was used to assess mothers' adverse childhood experiences. The ACEs was composed of ten questions and examined seven dimensions of childhood exposure to adverse experiences, including psychological, physical, and sexual abuse as well as exposure to substance abuse, mental illness,

domestic violence, and criminal behavior. Childhood exposure to adverse experiences was calculated by totaling the number of dimensions to which an individual experienced an exposure, with a Total Exposure score ranging from Unexposed (0) to Exposed to All Categories (7). In past studies, the ACEs Questionnaire was reported to have adequate psychometric properties (α =.88; Murphy et al., 2014). Consistently, in this study, the ACEs Questionnaire had adequate internal consistency (α =.81). For the purposes of this study, the Total Exposure score was used. See $Appendix\ B$ for a sample of the ACEs.

The Childhood Trauma Questionnaire (CTQ; Bernstein et al., 1994, 1997) also was used to assess mothers' own difficult childhood experiences. The CTQ examined four dimensions of abuse and neglect, including physical and emotional abuse, emotional neglect, sexual abuse, and physical neglect. Items that reflected emotional and physical abuse loaded highly on one single factor in the four-factor solution. As a result, this four-factor solution was considered to examine psychometric properties in a previous study, resulting in intercorrelations that ranged from r=.34 to r=.75. The CTQ demonstrated high internal consistency that ranged from $\alpha=.79$ to $\alpha=.94$ and stable test-retest reliability that ranged from r=.80 to r=.83. Similarly, in the present study, the CTQ Total Scale Score also demonstrated high internal consistency ($\alpha=.91$). Items on the CTQ were rated on a 5-point Likert-type scale, with responses that range from Never True (1) to Very Often True (5). For purposes of the study, the Total Scale Score will be examined. See Appendix C for a sample of the CTQ.

Mothers' Trauma Symptoms

Whereas the CTQ and the ACEs were used to assess mothers' experiences with childhood abuse and neglect, the *Trauma Symptom Checklist* (TSC; Briere & Rutntz, 1989) provided additional information related to the impact of mothers' difficult childhood

experiences. The TSC consisted of 33 items that loaded into five subscales, including Dissociation, Anxiety, Depression, Post-Sexual Abuse Trauma-Hypothesized, and Sleep Disturbance, as well as a Total Score. Each item was rated on a four-point Likert-type scale with response options ranging from *Never* (0) to *Very Often* (3). The TSC demonstrated high internal consistency (Total Score α =.89) in a previous study (Briere & Runtz, 1989) as well as in the present study (Total Score α =.94). In past studies, the TSC discriminated well between clients who were abused and those who had not been. In particular, responders who had experienced abuse showed significantly higher Total Scores (M=40.0) than responders who had not had that experience (M=27.3; Briere & Runtz, 1989). For the purpose of this study, the Total Score was used. See *Appendix D* for a sample of the TSC.

Mothers' Temperament

The Dimensions of Temperament Scale – Revised for Adults (DOTS-R Adult; Windle & Lerner, 1986) was used to assess mothers' self-report of their own temperament. This questionnaire consisted of 54 items that loaded onto the following nine attributes related to temperament: Activity Level-General (α =.84), Activity Level-Sleep (α =.89), Approach/Withdrawal (α =.85), Flexibility-Rigidity (α =.78), Mood Quality (α =.89), Rhythmicity-Sleep (α =.78), Rhythmicity-Eating (α =.80), Rythmicity-Daily Habits (α =.62), Distractibility (α =.81), Persistence (α =.74), and Task Orientation (α not reported; Windle & Lerner, 1986). The DOTS-R Adult instructed participants to rate each item using a 4-point Likert-type scale, with responses that ranged from Usually False (1) to Usually True (4). Higher scores corresponded with higher activity levels; more adaptability to novel situations, people, or events; greater flexibility within the external environment; lower distractibility; more positive mood; and more regular sleep

patterns, eating habits, and daily activities. The present study found adequate psychometric properties for the attributes of Activity Level-General (α =.87), Approach-Withdrawal (α =.74), Flexibility-Rigidity (α =.83), Mood Quality (α =.90), and Rythmicity-Daily Habits (α =.63), the subscales of interest for this study. These estimates were highly consistent with those described originally (as noted above; from Windle & Lerner, 1986). Only the dimensions of Activity Level-General, Approach-Withdrawal, Flexibility-Rigidity, Mood Quality, and Rhythmicity-Daily Habits were examined in this study, as previous research showed that these factors distinguished successfully between difficult and easy temperament styles (Billman & McDevitt, 1980). See *Appendix E* for a sample of the DOTS-R Adult.

Mothers' Emotional and Behavioral Functioning

The *Adult Self-Report* (ASR; Achenbach & Rescorla, 2003) was used to assess mothers' own emotional and behavioral problems. The ASR consisted of 126 items and instructed mothers to rate their own functioning on a 3-point Likert-type scale, with response options ranging from *Not True* (0) to *Very True or Often True* (2). The Internalizing Problems scale captured psychological symptoms related to anxiety, depression, withdrawal, somatic complaints, and thought problems, whereas the Externalizing Problems scale reflected symptoms related to attention problems, aggressive behavior, rule-breaking behavior, and avoidant and antisocial personality problems. Higher scores on the Internalizing and Externalizing Problems Scales indicated more clinically significant emotional and behavioral functioning. The ASR demonstrated very high reliability and validity (Internalizing Problems scale α =.93, r=.89; Externalizing Problems scale α =.89; r=.91; Achenbach & Rescorla, 2003). Consistently, the

 α =.97). For the purposes of this study, the Internalizing and Externalizing Problems scale scores (*T* scores) were examined. See *Appendix F* for a sample of the Adult Self-Report.

Mothers' Reflective Functioning

The Parental Reflective Functioning Questionnaire (PRFQ; Luyten et al., 2009) was used to assess mothers' reflective functioning. This measure consisted of 39 items and produced three subscales reflecting either high, low, or neither high nor low mentalizing. A Total Score also was calculated based on the three subscales. Higher scores that reflected higher levels of mothers' mentalization were measured on the High-Low subscale, whereas lower scores that reflected lower levels of mentalization were measured on the Low-High subscale. Additionally, mid-level scores that indicated lower scores on either of the extreme ends of the scale were reflected on the Middle subscale. Luyten and colleagues (2009) are examining the psychometric properties and clinical usefulness of the PRFQ. In this study, the Total Score of the PRFQ demonstrated adequate reliability (α =.61). For the purposes of this study, the Total Score was examined. See *Appendix G* for a sample version of the PRFQ.

Mothers' Perceived Control Over Failure

The *Parent Attribution Test* (Bugental, 2011) was used to measure mothers' attributions about unsuccessful parent-child interactions due to controllable or uncontrollable variables. The PAT produces separate subscales measuring the control attributed to adults for caregiving success (ACS) and failure (ACF) and to children for caregiving success (CCS) and failure (CCF). The ACF and the CCF scores comprised a measure of perceived control over failure (PCF). The PCF was scored as a continuous variable and calculated by subtracting the CCF (child caregiving success) score from the ACF (adult caregiving failure) score. Low ACF and high CCF scores indicate higher risk for the use of abusive or harsh parenting behaviors

(Bugental, 2011). The PAT had adequate test-retest reliability (r=.63) in a previous study (Bugental, 2011). In this study, the PAT demonstrated adequate reliability (α =.87). For the purposes of this study, the PCF scale was examined. See *Appendix H* for a sample of the PAT.

Mothers' Parenting Behaviors

The Alabama Parenting Questionnaire-Preschool Revision (APQ-PR; Clerkin, Halperin, Marks, & Policaro, 2007) was used to assess mothers' parenting behaviors. The APQ-PR consisted of 32 items that measured parenting behaviors in parents of children younger than 6-years of age. The APQ-PR captured three groupings of parenting behaviors, including Positive Parenting, Negative/Inconsistent Parenting, and Punitive Parenting. Items on this three-factor solution were rated on a 5-point Likert-type scale with response options ranging from never (1) to always (5). Higher scores on the APQ-PR reflected higher levels of each of the factors mentioned previously. Reliability estimates for the APQ-PR in this study (Positive Parenting: α =.85; Negative/Inconsistent Parenting: α =.83; Punitive Parenting: α =.61) were consistent with those reported previously (Positive Parenting: α =.84; Negative/Inconsistent Parenting: α =.79; Punitive Parenting: α =.63; Clerkin et al., 2007). For the purposes of this study, all three subscales were examined. See Appendix I for sample versions of the APQ and the APQ-PR.

Mothers' Satisfaction with Their Parenting Role

The *Parenting Sense of Competence Scale* (PSOC; Gibaud-Wallston & Wandersman, 1978) was used to assess mothers' satisfaction with their parenting role. The PSOC consisted of 17 items that measured mothers' Efficacy and Satisfaction. Each item was rated on 6-point Likert scale ranging from *Strongly Disagree* (1) to *Strongly Agree* (6), with higher scores reflecting higher Efficacy and Satisfaction. The Satisfaction (α =.75) and Efficacy (α =.76) scales both demonstrated high reliability in a previous study (Johnston & Mash, 1989). Similarly,

reliability estimates for the PSOC in this study for the Satisfaction (α =.80) and Efficacy (α =.83) scales were consistent with those reported previously. For the purposes of this study, only the nine items that captured the Satisfaction scale were examined (Johnston & Mash, 1989). See *Appendix J* for a sample of the Parenting Sense of Competence Scale.

Young Children's Temperament

The Dimensions of Temperament Scale-Revised for Children (DOTS-R Child; Windle & Lerner, 1986) was used to assess mothers' perceptions of their young children's temperament. The DOTS-R Child consisted of 54 items and instructed mothers to rate attributes of their children's temperament using a 4-point Likert-type scale with responses that range from *Usually* False (1) to Usually True (5). Specifically, this questionnaire measured nine attributes of temperament, including Activity Level-General (α =.84), Activity Level-Sleep (α =.87), Approach-Withdrawal (α =.84), Flexibility-Rigidity (α =.79), Mood Quality (α =.91), Rhythmicity-Sleep (α =.80), Rhythmicity-Eating (α =.80), Rhythmicity-Daily Habits (α =.70), and Task Orientation (α =.79; Windle & Lerner, 1986). Higher scores corresponded with higher activity levels; more adaptability to novel situations, people, or events; greater flexibility within the external environment; lower distractibility; more positive mood; and more regular sleep patterns, eating habits, and daily activities. Consistent with previous research (Windle & Lerner, 1986), the present study also showed adequate reliability in the domains of Activity Level-General (α =.91), Approach-Withdrawal (α =.77), Flexibility-Rigidity (α =.84), Mood Quality (α =.90), and Rhythmicity-Daily Habits (α =.63), the subscales examined in this study. As mentioned with regard to the DOTS-R Adult, the dimensions of Activity Level-General, Approach-Withdrawal, Flexibility-Rigidity, Mood Quality, and Rhythmicity-Daily Habits were

examined, as previous research showed that these factors distinguished successfully between difficult and easy temperament styles (Billman & McDevitt, 1980). See *Appendix K* for a sample of the DOTS-R Child.

Young Children's Emotional and Behavioral Functioning

The Child Behavior Checklist (CBCL; Achenbach & Rescorla, 2000) was used to assess mothers' perceptions of their young children's emotional and behavioral functioning. Mothers completed the 1½- to 5-year old version of the CBCL. This measure included over 100 items and instructed mothers to rate their young children's emotional and behavioral functioning over the past two months on a three-point Likert-type scale with options ranging from *Not True* (0) to Very True or Often True (2). The Internalizing Problems scale captured difficulties that the child experienced with emotional reactivity, somatic complaints, anxiety, depression, and withdrawal, amongst other symptoms, whereas the Externalizing Problems scale reflected difficulties that the child experienced with attention problems and aggressive behaviors, amongst other symptoms. Higher scores on the Internalizing and Externalizing Problems Scales reflected more clinically significant emotional and behavioral functioning. The CBCL demonstrated high reliability (Internalizing Problems scale α =.90; r=.91; Externalizing Problems scale α =.94; r=.92) in a previous study (Achenbach & Rescorla, 2001). Consistently, the CBCL demonstrated high reliability in this study as well (e.g., Total Score: α =.96). For the purposes of this study, the Internalizing and Externalizing Problems scale scores (T scores) were examined. See Appendix L for a sample of each CBCL version.

Young Children's Adaptive Functioning

The Adaptive Behavior Assessment System-Second Edition (ABAS-II; Harrison & Oakland, 2003) was used to assess mothers' perceptions of their young children's adaptive

functioning. Mothers completed the birth to 5-year old version of the ABAS-II. This measure included over 200 items and instructed mothers to rate their young children's ability to perform certain tasks and behaviors independently. Items were rated on a 4-point Likert scale with scores ranging from *Is Not Able* (0) to *Always or Almost Always When Needed* (3). Mothers rated their young children in the domains of Conceptual (i.e., communication, self-direction, and functional pre-academics), Social (i.e., social skills and leisure), and Practical (i.e., self-care, home living, community use, and health and safety) Skills. A Motor Skills scale also was on the measure but only was included as part of the General Adaptive Composite. The ABAS-II demonstrated high reliability in previous studies (α =.98 to .99; Harrison & Oakland, 2003) as well as in the present study (α =.99). For the purposes of this study, the General Adaptive Composite score was used. See *Appendix M* for a sample of the Adaptive Behavior Assessment System-Second Edition.

Data Analyses

Data analyses for this project were conducted using SPSS. Initially, descriptive statistics, including the mean scores and standard deviations for each variable of interest, were calculated, and participants' relative score for each variable was examined. Then, based on the presented literature, the relationships among mothers' characteristics (e.g., difficult childhood experiences, temperament), mothers' parenting (e.g., reflective functioning, attributions, specific parenting behaviors), and young children's characteristics (e.g., temperament, behavior problems, adaptive functioning) were examined using correlation analyses. These correlations were examined in the context of mothers' adverse childhood experiences, with correlations for mothers in the total sample and for those with a high number of reported adverse childhood experiences (i.e., 4 or

more categories of exposure endorsed) being considered. Overall, correlations were used to examine hypotheses regarding relationships among the variables of interest.

Next, a series of regression analyses was conducted to determine whether reflective functioning mediated the relationship between mothers' temperament and specific parenting behaviors. Additionally, a separate series of regression analysis was conducted to determine whether mothers' attributions mediated the relationship between mothers' temperament and specific parenting behaviors. Baron and Kenny (1986) provided a four-step approach that included several regression analyses. First, a simple regression analysis examined the relationship between mothers' temperament and parenting behaviors (path c). Second, a simple regression analysis examined the relationship between mothers' temperament and reflective functioning or attributions (path a). At this step, mothers' temperament must have predicted reflective functioning or attributions. Third, a simple regression analysis examined the relationship between reflective functioning or attributions and parenting behaviors (path b) to demonstrate that the mediators, reflective functioning or attributions, predicted the outcome variable, parenting behaviors. Finally, two separate multiple regression analyses examined mothers' temperament and reflective functioning or attributions as predictors of specific parenting behaviors. The relationship between temperament and parenting behaviors must have decreased to non-significance when reflective functioning or attributions were entered into the equation to demonstrate the mediational role of reflective functioning and/or attributions. If these analyses suggested a partial or full mediation, a Sobel test was conducted to provide further support. Research findings also supported new methods of conducting mediation models that were examined for the present study (MacKinnon, Cheong, & Pirlott, 2012; MacKinnon, Fairchild, & Fritz, 2007).

In addition to the proposed mediation analyses, hierarchical regression analyses examined which variables were significant predictors of children's temperament, behavior problems, and adaptive functioning. Here, mothers' characteristics (Block 1), reflective functioning and attributions (Block 2), and parenting behaviors (Block 3) served as predictor variables, and young children's temperament, behavior problems, and adaptive functioning served as criterion variables.

CHAPTER THREE: RESULTS

Preliminary Analyses

Descriptive Statistics

To better understand and interpret the results of this study, descriptive statistics (e.g., means and standard deviations) were examined for each variable of interest. Additionally, given that two of the aims of this study took into consideration the impact of mothers' exposure to adverse childhood experiences, descriptive statistics were examined for mothers who endorsed the highest levels of adverse childhood experiences (as measured by the ACEs questionnaire, with Felitti et al., 1998, suggesting that those individuals who endorsed four or more adverse childhood events having more risk factors for the leading causes of death in adults) as well. The ranges, means, and standard deviations of the predictor and outcome variables included in this study are reported in Table 1.

Descriptive statistics for mothers' history of adverse childhood experiences (as measured by the ACEs questionnaire) suggested that mothers in the total sample reported low levels of exposure to difficult experiences in childhood (*M*=2.34, *SD*=2.49), whereas mothers in the high exposure subsample reported high levels of exposure (*M*=5.59, *SD*=1.73). A total of 68 participants (30.4% of the overall sample) reported high levels of exposure (i.e., four or more categories of exposure). Overall scores for the ACEs questionnaire could range from 0 to 10. Additional measures also were collected with regard to mothers' history of childhood trauma and their trauma symptoms. Specifically, mothers' experiences with childhood trauma were examined by the CTQ, and descriptive statistics were calculated for mothers' Total Scale Score. Mothers in the total sample of the present study reported moderate overall levels of childhood

trauma experiences (M=44.96, SD=20.97). Mothers in the subsample with high ACEs reported higher levels of childhood trauma experiences in the present study (M=69.02, SD=19.57). Additionally, the TSC Total Score measured mothers' trauma symptoms. Mothers in the total sample reported moderate levels of trauma symptoms (M=15.86, SD=14.28), whereas mothers in the subsample with high ACEs reported higher levels of trauma symptoms (M=24.72, SD=15.85).

Descriptive statistics also were calculated for mothers' self-reported temperament ratings on five dimensions of the DOTS-R Adult. Scores in this study were compared to a community sample (as suggested by Koetters, 2002). Adults in the community sample obtained by Koetters (2002) reported relatively moderate levels on the dimensions of Activity Level-General (*M*=16.41, *SD*=4.47), Approach-Withdrawal (*M*=19.54, *SD*=3.46), Flexibility-Rigidity (*M*=14.31, *SD*=2.96), Mood Quality (*M*=24.35, *SD*=3.77), and Rhythmicity-Daily Habits (M=13.02, SD=3.36). Consistent with that community sample (Koetters, 2002), mothers in the total sample of the present study also reported relatively moderate levels on the dimensions of Activity Level-General (M=16.84, SD=4.61), Approach-Withdrawal (M=18.68, SD=3.59), Flexibility-Rigidity (M=13.37, SD=3.45), Mood Quality (M=23.77, SD=4.09), and Rhythmicity-Daily Habits (M=12.76, SD=2.93). Mothers in the subsample who had high ACEs in the current study reported levels on the DOTS-R Adult that were highly consistent with levels reported in the overall sample for Activity Level-General (M=18.10, SD=5.30), Approach-Withdrawal (*M*=18.06, *SD*=3.83), Flexibility-Rigidity (*M*=13.17, *SD*=3.54), Mood Quality (*M*=23.08, SD=4.55), and Rhythmicity-Daily Habits (M=12.42, SD=3.26).

Additionally, the ASR was examined as a measure of mothers' self-reported behavior problems. Mothers in the total sample reported their Internalizing Problems (M=52.86,

SD=14.58) and Externalizing Problems (M=48.59, SD=12.19) scales to be within the Nonclinical range. Mothers in the high ACEs subsample reported somewhat higher levels of Internalizing Problems (M=60.63, SD=13.97), falling in the Borderline range of functioning. Mothers in this subsample reported Nonclinical ranges on the Externalizing Problems (M=53.79, SD=11.24) scale.

Next, the PRFQ was examined as a measure of mothers' reflective functioning. Mothers in the total sample rated themselves as having moderate levels on the High-Low (M=5.11, SD=.69), Low-High (M=5.67, SD=.73), Middle (M=3.59, SD=1.06), and Total (M=4.80, SD=.37) scales. Consistently, mothers in the high ACEs subsample also rated themselves as having moderate levels of reflective functioning on the High-Low (M=5.07, SD=.83), Low-High (M=5.76, SD=.61), Middle (M=3.51, SD=.99), and Total (M=4.80, SD=.36) scales. Further, the PCF (perceived control over failure) scale of the PAT was examined as a measure of mothers' attributions. Mothers in the overall sample rated themselves as having relatively high perceived control (M=.51, Mdn=.50, SD=.82). Consistently, mothers in the high ACEs subsample also rated themselves as having higher perceived control (M=.59, Mdn=.50, SD=.90). In other words, mothers in the total sample and the high ACEs subsample endorsed higher ACF than CCF.

Next, the APQ-PR was examined as a measure of mothers' positive, negative/ inconsistent, and punitive parenting behaviors. Mothers in the total sample reported moderate levels of Positive Parenting (M=53.19, SD=6.44), Negative/Inconsistent Parenting (M=14.00, SD=5.06), and Punitive Parenting (M=8.13, SD=2.7). Similarly, mothers who rated themselves as having experienced high levels of ACEs also reported moderate levels of Positive Parenting (M=53.29, SD=6.37), Negative/Inconsistent Parenting (M=13.82, SD=5.18), and Punitive Parenting (M=8.70, SD=2.90). Further, the PSOC was examined as a measure of mothers' self-

reported satisfaction with their parenting role. Mothers in the total sample (M=25.24, SD=8.01) and high ACEs subsample (M=25.24, SD=8.09) reported similar levels of moderate satisfaction with their role as a parent when compared with mothers in a normative sample in a previous study (M=22.72, SD=5.84; Gilmore & Cuskelly, 2009).

Finally, descriptive statistics also were examined for mothers' ratings of their young children on several variables of interest. First, descriptive statistics were calculated for mothers' perceptions of their children's temperament ratings on five dimensions of the DOTS-R Child. Consistent with the scores observed in mothers' self-report ratings of their own temperament, mothers reported relatively moderate levels in their young children on the dimensions of Activity Level-General (M=20.81, SD=4.74), Approach-Withdrawal (M=20.87, SD=3.66), Flexibility-Rigidity (M=14.01, SD=3.48), Mood Quality (M=26.28, SD=3.09), and Rhythmicity-Daily Habits (M=15.48, SD=2.59). Mothers in the subsample who reported high ACEs also reported temperament levels in their children similar to those found in the overall sample for Activity Level-General (M=20.48, SD=5.16), Approach-Withdrawal (M=20.80, SD=3.65), Flexibility-Rigidity (M=14.67, SD=3.55), Mood Quality (M=26.80, SD=2.59), and Rhythmicity-Daily Habits (M=15.97, SD=2.46).

Additionally, descriptive statistics were examined for young children's behavior problems as rated by mothers on the CBCL. Mothers in the total sample reported mean scores in the Nonclinical range on the Internalizing Problems (M=42.43, SD=10.72) and Externalizing Problems (M=43.62, SD=10.20) scales for their young children. Similarly, mothers in the high ACEs subsample also reported scores in the Nonclinical range on the Internalizing Problems (M=43.93, SD=11.02) and Externalizing Problems (M=45.87, SD=10.49) scales for their young children.

Finally, descriptive statistics were calculated for mothers' ratings of their children's adaptive functioning on the ABAS-II. Mothers in the total sample rated their children's General Adaptive Composite as being within the Average range (M=100.00, SD=22.10). Highly consistent with the total sample, mothers in the subsample who reported high ACEs also perceived their children's General Adaptive Composite to be within the Average range (M=98.50, SD=19.64). It was noteworthy that mothers in both the total sample and high ACEs subsample reported that their children's self-care skills as measured by the Self-Care subscale were Below Average (total sample: M=6.48, SD=3.57; high ACEs subsample: M=6.03, SD=2.73).

Multicollinearity

Multicollinearity among the predictor variables was assessed to determine whether a strong correlation existed among two or more predictors in order to assess whether regression analyses may be biased (Bowerman & O'Connell, 1990; Field, 2013). Analyses of multicollinearity demonstrated that none of the variables exhibited multicollinearity (Bowerman & O'Connell, 1990; Field, 2013). Specifically, all Variance Inflation Factors (VIF) were less than 2, as scores ranged from 1.01 to 1.94. To support adequate multicollinearity analyses, the tolerance level of the predictor variables was assessed as well. Relatively high tolerance level proportions (i.e., scores ranged from .52 to .99) were noted and suggested that all variables of interest were satisfactory for use in the model (Field, 2013; Menard, 1995).

Correlations

Correlations among mothers' characteristics (e.g., adverse childhood experiences, temperament, reflective functioning, attributions), parenting behaviors, and young children's

characteristics (e.g., temperament, behavior problems, adaptive functioning) were assessed to determine the relationships among these variables. Additionally, given the interest in examining these variables in the context of mothers' adverse childhood experiences, relationships among these variables were analyzed separately for the total sample as well as for mothers who reported a high number of adverse childhood experiences. Several of these relationships are described below. See Table 2.

Total Sample

In the total sample, mothers' adverse childhood experiences (ACEs) were related significantly and positively with their general activity level (DOTS temperament), internalizing and externalizing behavior problems (ASR), and their ratings of their young children's externalizing behaviors (CBCL). Mothers' adverse childhood experiences also were related significantly and negatively to their approach-withdrawal (DOTS temperament) and their mood quality (DOTS temperament).

Additionally, mothers' temperament related to a number of other variables. Specifically, mothers' general activity level (DOTS temperament) was related significantly and positively to their internalizing and externalizing behavior problems (ASR), punitive parenting behaviors (APQ-PR), and ratings of their young children's activity level (DOTS temperament) and internalizing and externalizing behavior problems (CBCL). Mothers' general activity level (DOTS temperament) also was related significantly and negatively to their flexibility-rigidity (DOTS temperament), rhythmicity in their daily habits (DOTS temperament), satisfaction with their parenting role (PSOC), and their ratings of their children's flexibility-rigidity (DOTS temperament).

Next, mothers' approach-withdrawal (DOTS temperament) was related significantly and

positively to their flexibility-rigidity (DOTS temperament), mood quality (DOTS temperament), perceived control in parenting (PCF subscale of the PAT), positive parenting behaviors (APQ-PR), satisfaction with their parenting role (PSOC), and their ratings of their children's approach-withdrawal and flexibility-rigidity (DOTS temperament). Mothers' approach-withdrawal (DOTS temperament) also was related significantly and negatively to their internalizing and externalizing behavior problems (ASR) and to their ratings of their young children's general activity level (DOTS temperament) and internalizing and externalizing behavior problems (CBCL).

Further, mothers' flexibility-rigidity (DOTS temperament) was related significantly and positively to their mood quality (DOTS temperament), perceived control in parenting (PCF subscale of the PAT), satisfaction with their parenting role (PSOC), and their ratings of their young children's approach-withdrawal (DOTS temperament), flexibility-rigidity (DOTS temperament), mood quality (DOTS temperament), and self-care skills (ABAS-II). Mothers' flexibility-rigidity (DOTS temperament) also was related significantly and negatively to their internalizing and externalizing behavior problems (ASR), negative/inconsistent and punitive parenting behaviors (APQ-PR), and their ratings of their young children's general activity level (DOTS temperament) and internalizing and externalizing behavior problems (CBCL).

Moreover, mothers' mood quality (DOTS temperament) was related significantly and positively to their rhythmicity in daily habits (DOTS temperament), positive parenting behaviors (APQ-PR), satisfaction with their role as a parent (PSOC), and their ratings of their young children's approach-withdrawal (DOTS temperament), mood quality (DOTS temperament), rhythmicity in daily habits (DOTS temperament), and overall adaptive functioning and self-care skills (ABAS-II). Mothers' mood quality (DOTS temperament) also was related significantly and

negatively to their internalizing and externalizing behavior problems (ASR) and their ratings of their young children's internalizing behavior problems (CBCL).

Lastly, mothers' rhythmicity in daily habits (DOTS temperament) was related significantly and positively to their perceived control in parenting (PCF subscale of the PAT), maternal role satisfaction (PSOC), and ratings of young children's rhythmicity in daily habits (DOTS temperament). Additionally, mothers' rhythmicity in daily habits (DOTS temperament) was related significantly and negatively to their internalizing and externalizing behavior problems (ASR), their negative/inconsistent and punitive parenting behaviors (APQ-PR), and their ratings of their young children's internalizing and externalizing behavior problems (CBCL).

Additionally, mothers' reflective functioning (PRFQ) was related significantly and positively to their ratings of their young children's mood quality (DOTS temperament).

Moreover, mothers' perceived control in parenting (PCF subscale of the PAT) was related significantly and positively to their positive parenting behaviors (APQ-PR) and to their ratings of young children's approach-withdrawal, flexibility-rigidity, mood quality, and rhythmicity in daily habits (DOTS temperament). Mothers' perceived control in parenting (PCF subscale of the PAT) also was related significantly and negatively to their externalizing behavior problems (ASR) and their negative/inconsistent and punitive parenting behaviors (APQ-PR).

Next, mothers' internalizing and externalizing behavior problems (ASR) were related significantly and positively to their ratings of their young children's internalizing and externalizing behavior problems (CBCL). Additionally, mothers' internalizing and externalizing behavior problems (ASR) were related significantly and negatively to their satisfaction in their role as a mother (PSOC) and to their ratings of their young children's self-care skills (ABAS-II). Mothers' internalizing behavior problems (ASR) alone also were related significantly and

positively to their externalizing behavior problems (ASR). Further, mothers' internalizing behavior problems (ASR) were related significantly and positively to children's general activity level (DOTS temperament). Finally, mothers' internalizing behavior problems (ASR) were related significantly and negatively to their ratings of their young children's flexibility-rigidity (DOTS temperament) and overall adaptive functioning (ABAS-II). Lastly, mothers' externalizing behavior problems (ASR) were related significantly and negatively to perceptions of children's rhythmicity in daily habits (DOTS temperament).

Further, mothers' specific parenting behaviors were related to several maternal and child variables. In particular, mothers' positive parenting behaviors (APQ-PR) were related significantly and positively to their satisfaction with their parenting role (PSOC) and their ratings of their young children's general activity level, approach-withdrawal, flexibility-rigidity, mood quality, and rhythmicity in daily habits (DOTS temperament) and their ratings of their young children's overall adaptive functioning and their self-care skills (ABAS-II). Mothers' positive parenting behaviors (APQ-PR) also was related significantly and negatively to their internalizing and externalizing behavior problems (ASR), their negative/inconsistent and punitive parenting behaviors (APQ-PR), and their ratings of their young children's internalizing and externalizing behavior problems (CBCL). Mothers' negative parenting behaviors (APQ-PR) were related significantly and positively with their internalizing and externalizing behavior problems (ASR), their punitive parenting behaviors (APQ-PR), and their ratings of their young children's internalizing and externalizing behavior problems (CBCL). Additionally, mothers' negative parenting behaviors (APQ-PR) were related significantly and negatively with their maternal role satisfaction (PSOC) and their ratings of their young children's approach-withdrawal, flexibilityrigidity, mood quality, and rhythmicity in daily habits (DOTS temperament). Finally, mothers'

punitive parenting behaviors (APQ-PR) were related significantly and positively to their internalizing and externalizing behavior problems (ASR) and to their ratings of their young children's internalizing and externalizing behavior problems (CBCL). Additionally, mothers' punitive parenting behaviors (APQ-PR) were related significantly and negatively to their maternal role satisfaction (PSOC) and to their ratings of their young children's rhythmicity in daily habits (DOTS temperament).

Additionally, mothers' satisfaction with their role as a parent (PSOC) was related significantly and positively with their ratings of their young children's approach-withdrawal, flexibility-rigidity, mood quality, and rhythmicity in daily habits (DOTS temperament) as well as their young children's overall adaptive functioning and self-care skills (ABAS-II). Maternal role satisfaction (PSOC) also was related significantly and negatively to their ratings of their young children's general activity level (DOTS temperament) and internalizing and externalizing behavior problems (CBCL).

Next, young children's temperament, behavior problems, and adaptive functioning also were related to a number of other child characteristics. Specifically, mothers' ratings of their young children's general activity level (DOTS temperament) were related significantly and positively to mothers' ratings of their young children's approach-withdrawal (DOTS temperament), mood quality (DOTS temperament), and externalizing behavior problems (CBCL). Additionally, mothers' ratings of their young children's general activity level (DOTS temperament) were related significantly and negatively to their ratings of their young children's flexibility-rigidity (DOTS temperament).

Moreover, mothers' ratings of their young children's approach-withdrawal (DOTS temperament) were related significantly and positively with their ratings of their young

children's flexibility-rigidity (DOTS temperament), mood quality (DOTS temperament), and overall adaptive functioning (ABAS-II). Mothers' ratings of their young children's approach-withdrawal (DOTS-temperament) also were related significantly and negatively to their ratings of their young children's internalizing behavior problems (CBCL).

Further, mothers' ratings of their young children's flexibility-rigidity (DOTS temperament) were related significantly and positively with their ratings of their young children's mood quality and rhythmicity in daily habits (DOTS temperament) and significantly and negatively with their ratings of their young children's internalizing and externalizing behavior problems (CBCL). Additionally, mothers' ratings of their young children's mood quality (DOTS temperament) were related significantly and positively with their ratings of their young children's rhythmicity in daily habits (DOTS temperament) and significantly and negatively with their ratings of their young children's internalizing behavior problems (CBCL).

Mothers' ratings of their young children's rhythmicity in daily habits (DOTS temperament) also were related significantly and positively to their ratings of their young children's overall adaptive functioning and self-care skills (ABAS-II) and significantly and negatively related to their ratings of their young children's internalizing behavior problems (CBCL).

With regard to mothers' ratings of their young children's behavior problems, their ratings of their young children's internalizing and externalizing behavior problems (CBCL) were related significantly and negatively with their ratings of their young children's overall adaptive functioning and self-care skills (ABAS-II). Additionally, mothers' ratings of their young children's internalizing behavior problems (CBCL) alone were related significantly and positively with their ratings of their young children's externalizing behavior problems (CBCL).

Finally, mothers' ratings of their young children's overall adaptive functioning (ABAS-II) were related significantly and positively with their ratings of their young children's self-care skills (ABAS-II).

Subsample with High ACEs

Next, correlational relationships were examined for variables of interest among mothers who reported a significant number of adverse childhood experiences (ACEs; n=68). Results suggested several unique relationships relative to those described in the total sample. First, mothers' adverse childhood experiences (ACEs) were related significantly and negatively to their reflective functioning (PRFQ) and their punitive parenting behaviors (APQ-PR). Additionally, mothers' approach-withdrawal (DOTS temperament) was related significantly and positively with their ratings of their young children's rhythmicity in daily habits (DOTS temperament). Next, mothers' mood quality (DOTS temperament) was related significantly and negatively to their ratings of their young children's externalizing behavior problems (CBCL). Further, mothers' rhythmicity in daily habits (DOTS temperament) was related significantly and positively to their ratings of their young children's overall adaptive functioning and self-care skills (ABAS-II).

Additionally, mothers' reflective functioning was related significantly and negatively to their ratings of their young children's overall adaptive functioning (ABAS-II). Given that this effect was highly counterintuitive, the Yerkes-Dodson Law was considered, and it was hypothesized additionally that there may be a particularly desired level of reflective functioning in mothers for the prediction of well-developed adaptive functioning in their young children. In other words, high reflective functioning may work in favor of mothers' ability to help their young children gain adequate adaptive functioning skills to a certain extent but then impair

mothers' perceptions after a certain level, or "tipping point," of reflective functioning has been surpassed (Yerkes & Dodson, 1908). However, statistical analyses failed to provide support for this hypothesis as the quadratic equation was not significant (R^2 =.45, p<.99), and there was virtually no increase in the accounted variance when adding the quadratic variable. It is important to note that only 37 participants' ratings could be examined collectively in this model, and the available sample size may be hindering the demonstration of the proposed effect.

Next, mothers' perceived control in parenting (PCF subscale of the PAT) was related significantly and positively with mothers' ratings of their young children's self-care skills (ABAS-II). Further, mothers' internalizing behavior problems (ASR) were related significantly and negatively to their ratings of their young children's rhythmicity in daily habits (DOTS temperament). Additionally, mothers' externalizing behavior problems (ASR) were related significantly and negatively to their ratings of their young children's flexibility-rigidity (DOTS temperament).

Finally, with regard to young children's temperament, mothers' ratings of their young children's general activity level (DOTS temperament) were related significantly and negatively to their ratings of their young children's overall adaptive functioning (ABAS-II). Next, mothers' ratings of their young children's perceived mood quality (DOTS temperament) were related significantly and positively with their self-care skills (ABAS-II). Lastly, mothers' ratings of their young children's rhythmicity in daily habits (DOTS temperament) were related significantly and negatively to their ratings of their young children's externalizing behavior problems (CBCL).

Mediation Analyses

Mediation analyses examined the predictive relationships among mothers' temperament,

reflective functioning and attributions, and parenting behaviors. To examine these relationships, the Activity Level-General, Approach-Withdrawal, Flexibility-Rigidity, Mood Quality, and Rhythmicity-Daily Habits subscales of the DOTS-R Adult were used along with the total score of the PRFQ and the Perceived Control over Failure subscale of the PAT as well as the Positive, Negative/Inconsistent, and Punitive Parenting subscales of the APQ-PR. A series of regression equations were examined to establish mediation (Baron & Kenny, 1986). In these equations, mothers' temperament had to predict their reflective functioning or attributions (path a) and their parenting behaviors (path c). Further, mothers' reflective functioning or attributions had to predict their parenting behaviors (path b). With reflective functioning or attributions included in the model, the relationship between temperament and parenting behaviors had to decrease to non-significance to establish the mediational role of reflective functioning or attributions. Given the possibility of significant mediation despite an insignificant relationship between the predictor and outcome variable (MacKinnon, Fairchild, & Fritz, 2007), the relationship between the predictor and outcome variable was considered unnecessary to establishing mediation. See Tables 3 and 4.

Total Sample

Mothers' Temperament Predicting Parenting Behaviors. The first set of regression equations demonstrated that mothers' approach-withdrawal (DOTS temperament) predicted their positive parenting behaviors (APQ-PR) significantly, F(1,201)=4.63, p<.04, $R^2=.02$. Additionally, mothers' mood quality (DOTS temperament) predicted significantly their positive parenting behaviors (APQ-PR), F(1,201)=15.94, p<.001, $R^2=.07$.

Next, mothers' flexibility-rigidity (DOTS temperament) predicted significantly their negative/inconsistent parenting behaviors (APQ-PR), F(1,207)=7.09, p<.01, $R^2=.03$. Mothers'

rhythmicity in daily habits (DOTS temperament) also predicted significantly their negative/inconsistent parenting behaviors (APQ-PR), F(1,209)=18.15, p<.001, $R^2=.08$.

Lastly, mothers' general activity level (DOTS temperament) predicted significantly their punitive parenting behaviors (APQ-PR), F(1,206)=4.87, p<.03, R^2 =.02. Additionally, mothers' flexibility-rigidity (DOTS temperament) predicted their punitive parenting behaviors (APQ-PR) significantly, F(1,205)=3.93, p<.05, R^2 =.02. Finally, mothers' rhythmicity in daily habits predicted significantly their punitive parenting behaviors (APQ-PR), F(1,209)=10.22, p<.003, R^2 =.05.

Mothers' Temperament Predicting Reflective Functioning and Attributions. The second set of regression equations demonstrated that all five subscales used to represent mothers' temperament (DOTS) failed to predict mothers' reflective functioning (PRFQ). Consequently, reflective functioning was not examined further for mediation analyses. In contrast, mothers' approach-withdrawal (DOTS temperament) predicted significantly their perceived control in parenting (PCF subscale of the PAT), F(1,204)=5.73, p<.02, $R^2=.03$. Next, mothers' flexibility-rigidity (DOTS temperament) predicted significantly their perceived control in parenting (PCF subscale of the PAT), F(1,205)=5.16, p<.03, $R^2=.03$. Finally, mothers' rhythmicity in daily habits (DOTS temperament) predicted significantly their perceived control (PCF subscale of the PAT), F(1,202)=17.464, p<.03, $R^2=.02$.

Mothers' Attributions Predicting Parenting Behaviors. The third set of regression equation demonstrated that mothers' attributions (PCF subscale of the PAT) predicted significantly their positive parenting behaviors (APQ-PR), F(1,202)=17.50, p<.001, $R^2=.08$. Additionally, mothers' attributions (PCF subscale of the PAT) predicted their negative/inconsistent parenting behaviors (APQ-PR) significantly, F(1,205)=6.85, p<.02, $R^2=.03$.

Finally, mothers' attributions (PCF subscale of the PAT) predicted their punitive parenting behaviors (APQ-PR) significantly, F(1,202)=6.01, p<.02, $R^2=.03$.

Mothers' Temperament and Attributions Predicting Parenting Behaviors. The fourth and final set of regression equations only examined the variables that had significant paths in the previous sets of regressions that would suggest mediation. First, mothers' attributions (PCF subscale of the PAT) were examined as a mediator in the relationship between mothers' approach-withdrawal (DOTS temperament) and their positive parenting behaviors (APQ-PR). These analyses demonstrated that mothers' approach-withdrawal (DOTS temperament) and perceived control (PCF subscale of the PAT) predicted significantly their positive parenting behaviors (APQ-PR), F(2,194)=9.94, p<.001, $R^2=.09$. Specifically, when entered individually, mothers' approach-withdrawal predicted positive parenting behaviors significantly (p<.03). When mothers' perceived control was entered into the equation, however, mothers' approach-withdrawal decreased in significance (p<.10), and only mothers' perceived control was a significant predictor of positive parenting behavior (p<.001). The mediational value of mothers' perceived control was confirmed with a significant Sobel Test (z=2.06, p<.04).

Next, mothers' attributions (PCF subscale of the PAT) were examined as a potential mediator between mothers' flexibility-rigidity (DOTS temperament) and their negative parenting behaviors (APQ-PR). However, mothers' attributions failed to mediate the relationship between mothers' flexibility-rigidity and their negative parenting behaviors. Specifically, when entered individually, mothers' flexibility-rigidity predicted negative parenting behaviors significantly (p<.01). When mothers' attributions were entered into the equation, mothers' flexibility-rigidity did not decrease to non-significance (p<.02), and both variables remained significant predictors of negative parenting behaviors (p<.01). Although mothers' flexibility-rigidity did not decrease

to non-significance, the possibility of partial mediation was considered given that the variable decreased in significance. However, a Sobel Test (z=-1.73, p<.09) failed to confirm the mediational value of mothers' perceived control in this relationship. Thus, there was no mediational value in mothers' attributions with regard to the relationship between mothers' flexibility-rigidity and their negative parenting behaviors.

Further, mothers' attributions (PCF subscale of the PAT) also were examined as a potential mediator between mothers' rhythmicity in daily habits (DOTS temperament) and their negative parenting behaviors (APQ-PR). However, mothers' attributions failed to mediate this relationship. Specifically, when entered individually, mothers' rhythmicity in daily habits predicted negative parenting behaviors significantly (p<.001). Then, when mothers' attributions were entered into the equation, mothers' rhythmicity in daily habits did not decrease to non-significance (p<.001), and both variables remained significant predictors of negative parenting behaviors (p<.001). Thus, mothers' attributions were not established to have a mediational role in the relationship between mothers' rhythmicity in daily habits and their negative parenting behaviors.

Additionally, mothers' attributions (PCF subscale of the PAT) were examined as a mediator in the relationship between mothers' flexibility-rigidity (DOTS temperament) and their punitive parenting behaviors (APQ-PR). Mothers' flexibility-rigidity (DOTS temperament) and mothers' attributions (PCF subscale of the PAT) predicted significantly their punitive parenting behaviors (APQ-PR), F(2,195)=4.34, p<.02, R^2 =.04. Specifically, when entered individually, mothers' flexibility-rigidity predicted punitive parenting behaviors significantly (p<.05). When mothers' attributions were entered into the equation, however, mothers' flexibility-rigidity decreased in significance (p<.09), and only mothers' perceived control was a significant

predictor of punitive parenting behavior (p<.04).

Nonetheless, a Sobel Test (z=-1.68, p<.10) failed to confirm the mediational value of mothers' perceived control in this relationship. Thus, the decrease in significance of mothers' flexibility-rigidity was not a significant change. As a highly conservative statistical method, the Sobel test may not detect true relationships (Wilcox, 2005). One preferred way to overcome these limitations when examining indirect effects and an increasingly common method that is becoming preferred to Baron and Kenny's regression equations is bootstrapping. Bootstrapping generates confidence intervals around the indirect effect (Field, 2013). When applied to these particular variables, bootstrapping also failed to demonstrate an indirect effect of mothers' flexibility-rigidity on punitive parenting behaviors through their perceived control, b=-.02, 95% CI -.05 to .00.

Finally, mothers' attributions (PCF subscale of the PAT) were examined as a potential mediator between mothers' rhythmicity in daily habits (DOTS temperament) and their punitive parenting behaviors (APQ-PR). However, mothers' attributions failed to mediate the relationship between mothers' rhythmicity in daily habits and their punitive parenting behaviors. Specifically, when entered individually, mothers' rhythmicity in daily habits predicted punitive parenting behaviors significantly (p<.01). When mothers' attributions were entered into the equation, mothers' rhythmicity in daily habits did not decrease to non-significance (p<.03), and both variables remained significant predictors of negative parenting behaviors (p<.01). Although mothers' rhythmicity in daily habits did not decrease to non-significance, the possibility of partial mediation was considered given that the variable decreased in significance. However, a Sobel Test (z=-1.66, p<.10) failed to confirm the mediational value of mothers' perceived control in this relationship. Thus, there was no mediational value in mothers' attributions with regard to

the relationship between mothers' rhythmicity in daily habits and their punitive parenting behaviors.

Subsample with High ACEs

Mothers' Temperament Predicting Parenting Behaviors. The first set of regression equations demonstrated that mothers' approach-withdrawal (DOTS temperament) predicted significantly their positive parenting behaviors (APQ-PR), F(1,61)=6.52, p<.02, $R^2=.10$. Additionally, mothers' mood quality (DOTS temperament) predicted significantly mothers' positive parenting behaviors, F(1,61)=9.70, p<.004, $R^2=.14$.

Next, mothers' rhythmicity in daily habits (DOTS temperament) predicted significantly mothers' negative/inconsistent parenting behaviors (APQ-PR), F(1,61)=8.18, p<.007, $R^2=.12$.

Further, mothers' flexibility-rigidity (DOTS temperament) predicted their punitive parenting behaviors (APQ-PR) significantly, F(1,61)=4.86, p<.04, R^2 =.07. Finally, mothers' rhythmicity in daily habits predicted significantly their punitive parenting behaviors, F(1,63)=5.54, p<.03, R^2 =.08. All of the significant relationships among the variables of interest found within the subsample with high ACEs were consistent with those found in the overall sample.

Mothers' Temperament Predicting Reflective Functioning and Attributions. The second set of regression equations demonstrated that all five subscales used to represent mothers' temperament (DOTS-R Adult) failed to predict mothers' reflective functioning (PRFQ). Consequently, reflective functioning was not considered further in the context of these mediational analyses. Nonetheless, mothers' approach-withdrawal (DOTS temperament) predicted significantly mothers' perceived control (PCF subscale of the PAT), F(1,58)=12.22, p<.002, $R^2=.17$. Additionally, mothers' flexibility-rigidity (DOTS temperament) predicted

significantly mothers' perceived control, F(1,58)=11.85, p<.002, $R^2=.17$. Inconsistent with the overall sample, mothers' rhythmicity in daily habits (DOTS temperament) failed to predict mothers' perceived control, F(1,59)=1.55, p<.30, $R^2=.03$.

Mothers' Attributions Predicting Parenting Behaviors. The third set of regression equations demonstrated that, consistent with the overall sample, mothers' perceived control (PCF subscale of the PAT) predicted significantly their positive parenting behaviors (APQ-PR), F(1,60)=7.29, p<.01, $R^2=.11$. Inconsistent with the overall sample, mothers' perceived control failed to predict negative/inconsistent parenting behaviors (APQ-PR; F(1,58)=.78, p<.40, $R^2=.01$) and punitive parenting behaviors (APQ-PR; F(1,59)=2.80, p<.10, $R^2=.04$.

Mothers' Temperament and Attributions Predicting Parenting Behaviors. The fourth and final set of regression equations only examined the variables that were significant in the previous sets of regressions. These analyses demonstrated that, consistent with the overall sample, mothers' approach-withdrawal (DOTS temperament) and mothers' perceived control (PCF subscale of the PAT) predicted significantly their positive parenting behaviors (APQ-PR), F(2,57)=5.03, p<.01, $R^2=.15$. Specifically, when entered individually, mothers' approach-withdrawal predicted positive parenting behaviors significantly (p<.02). However, when mothers' perceived control was entered into the equation, mothers' approach-withdrawal decreased in significance (p<.20), and only mothers' perceived control was a significant predictor of positive parenting behavior (p<.05). The mediational value of mothers' perceived control in this relationship was confirmed with a significant Sobel Test (z=2.15, p<.04).

Hierarchical Regression Analyses

Predictive relationships among mothers' characteristics (i.e., history of adverse childhood

experiences, temperament, psychological symptoms, and maternal satisfaction), reflective functioning and attributions, parenting, and their young children's characteristics (i.e., temperament, emotional and behavioral functioning, and adaptive functioning) were examined. Separate regression analyses were performed in the total sample and in the subsample with high ACEs. Maternal variables served as predictor variables, and young children's characteristics served as criterion variables in these regressions. Specifically, mothers' characteristics (i.e., history of childhood adverse experiences, temperament, psychological symptoms, and maternal satisfaction) were entered into Block 1, mothers' reflective functioning and attributions were entered into Block 2, and mothers' parenting behaviors (i.e., positive, negative/inconsistent, and punitive parenting behaviors) were entered into Block 3 to examine the unique predictive capacity of these variables in predicting young children's outcomes. See Tables 5 through 13.

Total Sample

With regard to mothers' perceptions of young children's general activity level, mothers' characteristics predicted significantly their perceptions of young children's general activity level (DOTS temperament) when entered into Block 1, F(9,140)=2.33, p<.02, R^2 =.13. In particular, mothers' own general activity level (DOTS temperament; p<.05), approach-withdrawal (DOTS temperament; p<.05), and mood quality (DOTS temperament; p<.03) served as significant individual predictors. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation no longer remained significant, F(11,138)=2.29, p<.20, R^2 =.16. Nonetheless, mothers' temperament variables (DOTS) of general activity level (p<.05), approach-withdrawal (p<.04), and mood quality (p<.05) remained significant individual predictors of children's general activity level (DOTS temperament). When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant,

F(14,135)=1.14, p<.40, $R^2=.18$. Mothers' temperament variables (DOTS) of general activity level (p<.04) and approach-withdrawal (p<.04) continued to remain significant individual predictors. Thus, mothers' general activity level and level of approach to new stimuli provided unique incremental variance in predicting young children's general activity level although the regression equation was not significant overall.

Next, mothers' characteristics as a whole predicted significantly their perceptions of children's approach-withdrawal (DOTS temperament) when entered into Block 1, F(9,140)=2.18, p<.03, $R^2=.12$. There were no unique individual predictors, however (i.e., all individual predictors p>.05). When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained significant, F(11,138)=3.47, p<.04, $R^2=.17$. Specifically, mothers' endorsements of their perceived control (PCF subscale of the PAT; p < .01) served as a significant individual predictor. When mothers' parenting behaviors were entered into Block 3, the equation remained significant, F(14,135)=2.78, p<.05, $R^2=.21$. Here, mothers' rhythmicity in daily habits (DOTS temperament; p<.03), became a significant predictor. Additionally, mothers' perceived control (PCF subscale of the PAT) remained a significant individual predictor (p<.04), and mothers' negative/inconsistent parenting behaviors (APQ-PR; p<.02) also was a significant individual predictor. Thus, mothers' regularity in their daily habits, perceived control over failure, and negative/inconsistent parenting behaviors provided unique incremental variance in predicting young children's level of approach to new stimuli in the environment.

Further, mothers' characteristics predicted significantly their perceptions of children's flexibility-rigidity (DOTS temperament) when entered into Block 1, F(9,138)=5.98, p<.001, $R^2=.28$. In particular, mothers' temperament variables (DOTS) of general activity level (p<.001)

and flexibility-rigidity (p<.02) as well as mothers' externalizing behavior problems (ASR; p<.03) and maternal role satisfaction (PSOC; p<.04) served as significant individual predictors. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation did not remain significant, F(11,136)=1.11, p<.40, R^2 =.29. However, mothers' temperament variables (DOTS) of general activity level (p<.001) and flexibility-rigidity (p<.01) as well as mothers' externalizing behavior problems (ASR; p<.02) and satisfaction with their parenting role (PSOC; p<.05) remained significant individual predictors. When mothers' parenting behaviors were entered into Block 3, the equation became significant, F(14,133)=2.78, p<.05, R^2 =.33. Specifically, mothers' temperament variables (DOTS) of general activity level (p<.001) and flexibility-rigidity (p<.01) as well as mothers' externalizing behavior problems (ASR; p<.01) and positive parenting behaviors (APQ-PR; p<.03) were significant individual predictors. Thus, mothers' general activity level, flexibility in their behavior style, externalizing behavior problems, and positive parenting behaviors provided unique incremental variance in predicting young children's flexibility in their behavior style.

Additionally, mothers' characteristics predicted significantly their perceptions of children's mood quality (DOTS temperament) when entered into Block 1, F(9,136)=4.52, p<.001, R^2 =.23. In particular, mothers' own mood quality (DOTS temperament; p<.001) and maternal role satisfaction (PSOC; p<.04) served as significant individual predictors. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation did not remain significant, F(11,134)=2.15, p<.20, R^2 =.25. However, mothers' mood quality (DOTS temperament; p<.001) and satisfaction with their parenting role (PSOC; p<.04) remained significant individual predictors. When mothers' parenting behaviors were entered into Block 3, the equation became significant, F(14,131)=7.42,

p<.001, $R^2=.36$. Specifically, mothers' mood quality (DOTS temperament; p<.001), positive parenting behaviors (APQ-PR; p<.001), and negative/inconsistent parenting behaviors (APQ-PR; p<.03) were significant individual predictors. Thus, mothers' mood as well as their positive and negative/inconsistent parenting behaviors provided unique incremental variance in predicting young children's mood.

Lastly, with regard to young children's temperament, mothers' characteristics predicted significantly their perceptions of children's rhythmicity in daily habits (DOTS temperament) when entered into Block 1, F(9,139)=4.29, p<.001, R^2 =.22. In particular, mothers' own rhythmicity in daily habits (DOTS temperament; p<.001) as well as their adverse childhood experiences (ACEs; p<.04) served as significant individual predictors. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation did not remain significant, F(11,137)=.38, p<.70, R^2 =.22. However, mothers' rhythmicity in daily habits (DOTS temperament; p<.001) and their adverse childhood experiences (ACEs; p<.05) remained significant individual predictors. When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,134)=1.68, p<.20, R^2 =.25. Here, only mothers' rhythmicity in daily habits (DOTS temperament; p<.001) and positive parenting behaviors (APQ-PR; p<.05) were significant individual predictors. Thus, mothers' regularity in their daily habits and positive parenting behaviors provided unique incremental variance in predicting young children's regularity in daily habits.

Next, mothers' characteristics predicted significantly their perceptions of children's internalizing behavior problems (CBCL) when entered into Block 1, F(9,143)=5.66, p<.001, $R^2=.26$. In particular, mothers' own externalizing behavior problems (ASR; p<.02) served as an individual predictor. When mothers' reflective functioning (PRFQ) and perceived control (PCF

subscale of the PAT) were entered into Block 2, the equation did not remain significant, F(11,141)=.21, p<.90, $R^2=.27$. However, mothers' externalizing behavior problems (ASR; p<.01) remained a significant individual predictor. When mothers' parenting behaviors were entered into Block 3, the equation became significant, F(14,138)=4.21, p<.01, $R^2=.33$. Specifically, mothers' externalizing behavior problems (ASR; p<.03) and their positive parenting behaviors (APQ-PR; p<.01) were significant individual predictors. Thus, mothers' externalizing behavior problems and their positive parenting behaviors provided unique incremental variance in predicting young children's internalizing behavior problems.

Additionally, mothers' characteristics predicted significantly their perceptions of children's externalizing behavior problems (CBCL) when entered into Block 1, F(9,143)=7.58, p<.001, $R^2=.32$. In particular, mothers' externalizing behavior problems (ASR; p<.001) and their maternal role satisfaction (PSOC; p < .05) served as individual predictors. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation did not remain significant, F(11,141)=2.98, p<.06, $R^2=.35$. However, mothers' externalizing behavior problems (ASR; p<.001), maternal role satisfaction (PSOC; p<.04), and perceived control (PCF subscale of the PAT; p<.02) were significant individual predictors. When mothers' parenting behaviors were entered into Block 3, the equation became significant, F(14,138)=4.57, p<.005, $R^2=.41$. Specifically, mothers' externalizing behavior problems (ASR; p<.001) and perceived control (PCF subscale of the PAT; p<.01) remained significant individual predictors. Additionally, mothers' punitive parenting behaviors (APQ-PR; p<.01) were a significant individual predictor of children's externalizing behavior problems. Maternal role satisfaction (PSOC; p < .90) no longer remained a significant predictor. Thus, mothers' externalizing behavior problems, perceived control over failure, and punitive parenting

behaviors provided unique incremental variance in predicting young children's externalizing behavior problems.

Finally, mothers' characteristics failed to predict their perceptions of children's overall adaptive functioning (ABAS-II) when entered into Block 1, F(9,97)=1.82, p<.08, $R^2=.15$. However, mothers' mood quality (DOTS temperament; p<.02) served as a significant individual predictor. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained non-significant, F(11,95)=.84, p<.50, $R^2=.16$. However, mothers' mood quality (DOTS temperament; p<.02) remained a significant individual predictor. When mothers' parenting behaviors were entered into Block 3, the equation became significant, F(14,92)=5.93, p<.002, $R^2=.30$. Here, only mothers' positive parenting behaviors (APQ-PR; p<.001) were a significant individual predictor. Thus, mothers' positive parenting behaviors provided unique incremental variance in predicting young children's overall adaptive functioning.

Lastly, given that mothers' scores for children's self-care skills (ABAS-II) were significantly lower than expected (M=6.48, SD=3.57), self-care skills also became a variable of particular interest. Mothers' characteristics failed to predict significantly their perceptions of children's self-care skills (ABAS-II) when entered into Block 1, F(9,137)=1.33, p<.30, R²=.08. There were no significant individual predictors with regard to mothers' characteristics predicting young children's self-care skills (all p>.05). When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained non-significant, F(11,135)=.46, p<.70, R²=.09. Similarly, there were no significant individual predictors with regard to mothers' characteristics predicting young children's self-care skills (all p>.05). When mothers' parenting behaviors were entered into Block 3, the equation became

significant, F(14,132)=5.18, p<.003, $R^2=.18$. Specifically, mothers' adverse childhood experiences (ACES; p<.05) and positive parenting behaviors (APQ-PR; p<.001) were significant individual predictors. Thus, mothers' adverse childhood experiences and positive parenting behaviors provided unique incremental variance in predicting young children's self-care skills.

Subsample with High ACEs

With regard to mothers' perceptions of young children's temperament, maternal characteristics failed to predict children's general activity level (DOTS temperament) when entered into Block 1, F(9,36)=.65, p<.80, R^2 =.14. Additionally, no individual variables served as significant predictors (all p>.05). When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained nonsignificant, F(11,34)=1.38, p<.30, R^2 =.20. Again, no individual variables served as significant predictors (all p>.05). When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,31)=.36, p<.80, R^2 =.23, and no individual variables served as significant predictors (all p>.05). Thus, mothers' characteristics, reflective functioning, attributions, and parenting behaviors failed to provide unique incremental variance in predicting young children's general activity level in the subsample with high ACEs.

Next, mothers' characteristics failed to predict children's approach-withdrawal (DOTS temperament) when entered into Block 1, F(9,36)=1.37, p<.30, $R^2=.25$. Additionally, no individual variables served as significant predictors (all p>.05). When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained non-significant, F(11,34)=1.89, p<.20, $R^2=.33$. Again, no individual variables served as significant predictors (all p>.05). When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,31)=1.15, p<.40, $R^2=.40$. Here,

mothers' rhythmicity in daily habits (DOTS temperament; p<.03) served as a significant individual predictor. Thus, mothers' regularity in their daily habits provided unique incremental variance in predicting young children's level of approach to new stimuli in the subsample with high ACEs. This relationship was also significant in the total sample.

Further, mothers' characteristics predicted significantly their perceptions of children's flexibility-rigidity (DOTS temperament) when entered into Block 1, F(9,36)=2.58, p<.03, R^2 =.39. In particular, mothers' general activity level (DOTS temperament; p < .03) and mothers' satisfaction with their parenting role (PSOC; p<.03) served as significant individual predictors. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation did not remain significant, F(11,34)=.72, p<.50, $R^2=.42$. However, mothers' general activity level (DOTS temperament; p < .04) and mothers' satisfaction with their parenting role (PSOC; p < .03) remained significant individual predictors. When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,31)=1.10, p<.40, $R^2=.47$. Here, mothers' mood quality (DOTS temperament; p<.04) and maternal role satisfaction (PSOC; p<.04) served as significant individual predictors. Mothers' general activity level (DOTS temperament; p<.06) was no longer a significant individual predictor. Thus, mothers' mood and satisfaction with their role as a parent provided unique incremental variance in predicting young children's flexibility in their behavior style in the subsample with high ACEs. These relationships were unique to the subsample.

Additionally, mothers' characteristics failed to predict their perceptions of children's mood quality (DOTS temperament) when entered into Block 1, F(9,36)=1.34, p<.30, $R^2=.25$. No individual variables served as significant predictors (all p>.05) When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2,

the equation remain non-significant, F(11,34)=1.98, p<.20, $R^2=.33$. Again, no variables served as individual significant predictors (all p>.05) When mothers' parenting behaviors were entered into Block 3, the equation became significant, F(14,31)=4.27, p<.02, $R^2=.53$. Specifically, mothers' perceived control (PCF subscale of the PAT; p<.04) and mothers' positive parenting behaviors (APQ-PR; p<.01) were significant individual predictors. Thus, mothers' perceived control over failure and positive parenting behaviors provided unique incremental variance in predicting young children's mood in the subsample with high ACEs. Mothers' perceived control over failure as a significant predictor in this relationship was unique to the subsample.

Lastly, with regard to young children's temperament, maternal characteristics failed to predict children's rhythmicity in daily habits (DOTS temperament) when entered into Block 1, F(9,36)=1.56, p<.20, $R^2=.28$. Additionally, no individual variables served as significant predictors (all p>.05). When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained non-significant, F(11,34)=.77, p<.50, $R^2=.31$. Again, no individual variables served as significant predictors (all p>.05). When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,31)=1.02, p<.40, $R^2=.37$, and no individual variables served as significant predictors (all p>.05). Thus, mothers' characteristics, reflective functioning, attributions, and parenting behaviors failed to provide unique incremental variance in predicting young children's regularity in their daily habits in the subsample with high ACEs.

Next, mothers' characteristics failed to predict their perceptions of children's internalizing behavior problems (CBCL) when entered into Block 1, F(9,37)=1.90, p<.09, $R^2=.32$. Additionally, no individual variables served as significant predictors (all p>.05). When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were

entered into Block 2, the equation remained non-significant, F(11,35)=.01, p<.99, R^2 =.32. Again, no individual variables served as significant predictors (all p>.05). When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,32)=1.77, p<.20, R^2 =.41. Here, mothers' mood quality (DOTS temperament; p<.05) served as a significant individual predictor. Thus, mothers' mood provided unique incremental variance in predicting young children's internalizing behavior problems in the subsample with high ACEs. This relationship was unique to the subsample.

Additionally, mothers' characteristics failed to predict their perceptions of children's externalizing behavior problems (CBCL) when entered into Block 1, F(9,37)=2.08, p<.06, R^2 =.34. Additionally, no individual variables served as significant predictors (all p>.05). When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained non-significant, F(11,35)=.59, p<.60, R^2 =.36. Again, no individual variables served as significant predictors (all p>.05). When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,32)=.63, p<.70, R^2 =.39, and no individual variables served as significant predictors (all p>.05). Thus, mothers' characteristics, reflective functioning, attributions, and parenting behaviors failed to provide unique incremental variance in predicting young children's externalizing behavior problems in the subsample with high ACEs.

Finally, mothers' characteristics failed to predict their perceptions of children's overall adaptive functioning (ABAS-II) when entered into Block 1, F(9,24)=2.22, p<.06, R^2 =.46. However, mothers' adverse childhood experiences (ACEs; p<.04) served as a significant individual predictor. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation remained non-significant,

F(11,22)=2.40, p<.20, R^2 =.55. Here, mothers' adverse childhood experiences (ACEs) no longer remained a significant individual predictor (p<.50). When mothers' parenting behaviors were entered into Block 3, the equation remained non-significant, F(14,19)=.49, p<.70, R^2 =.59, and no individual variables served as significant predictors (all p>.05). Thus, mothers' characteristics, reflective functioning, attributions, and parenting behaviors failed to provide unique incremental variance in predicting young children's overall adaptive functioning in the subsample with high ACEs.

Lastly, given that mothers' scores for children's self-care skills (ABAS-II) were significantly lower than expected in the trauma subsample as well (M=6.03, SD=2.73), self-care skills also became a variable of particular interest in the subsample. Mothers' characteristics predicted significantly their perceptions of children's self-care skills (ABAS-II) when entered into Block 1, F(9.37)=2.74, p<.02, $R^2=.40$. In particular, mothers' adverse childhood experiences (ACEs, p<.01) served as a significant individual predictor. When mothers' reflective functioning (PRFQ) and perceived control (PCF subscale of the PAT) were entered into Block 2, the equation became non-significant, F(11,35)=.75, p<.50, $R^2=.42$. Specifically, mothers' adverse childhood experiences (ACEs; p<.02) and self-reported internalizing behavior problems (ASR; p<.04) served as significant individual predictors. When mothers' parenting behaviors were entered into Block 3, the equation became significant, F(14,32)=3.49, p<.03, $R^2=.57$. Specifically, mothers' adverse childhood experiences (ACES; p<.001), internalizing behavior problems (ASR; p<.04), and positive parenting behaviors (APQ-PR; p<.01) were significant individual predictors. Thus, mothers' adverse childhood experiences, internalizing behavior problems, and positive parenting behaviors provided unique incremental variance in predicting

young children's self-care skills in the subsample with high ACEs. Mothers' internalizing behavior problems as a significant predictor in this relationship was unique to the subsample.

CHAPTER FOUR: DISCUSSION

This study examined the relationships among mothers' characteristics, reflective functioning and perceived control over failure, and parenting behaviors as predictors of mothers' ratings of their young children's temperament, behavior problems, and adaptive functioning in the context of mothers' adverse childhood experiences (ACEs). Adverse events in childhood may include physical, emotional, and/or sexual abuse, neglect, witnessing domestic violence, and living with household members who misused substances, had a mental illness, were suicidal, or engaged in criminal behavior and were imprisoned (Felitti et al., 1998). Exposure to such difficulties while growing up has been found to impact parent-child relationships (Banyard, 1997; DiLillo & Damashek, 2003; Enlow et al., 2010, Lang et al., 2010) and mothers' perceptions of children's behavior problems (Enlow et al., 2010; Min et al., 2013). Thus, this study contributed uniquely to the existing literature by examining these relationships in the overall sample and in a subsample of mothers with high ACEs. Additionally, this study was unique in offering mothers' reflective functioning and perceived control over failure (i.e., attributions) as potential mediators in the relationship between mothers' temperament and specific parenting behaviors.

Support for the combination of variables used in this model has been detailed in the literature. First, research based on the New York Longitudinal Study demonstrated that mothers' and children's temperament was related bidirectionally (Lerner & Galambos, 1985), indicating that mother's temperament and children's temperament were related as originally suggested by the seminal works of Thomas and Chess (1977). Additional framework for the model utilized in the present study was derived from research demonstrating that children's difficult temperament

resulted in parents' punitive reactions, which, in turn, predicted children's behavior problems (Eisenberg et al., 1999). Another highly predictive indicator of children's problematic behavioral functioning was mothers' negative reactions toward their children (Atzaba-Poria et al., 2014; Chen et al., 2014). Thus, previous research established that several of the constructs examined in this study (i.e., mothers' and children's temperament, parenting behaviors, and mothers' perceptions of children's behavior problems) were related.

Given the established research demonstrating the relationships between mothers' temperament and parenting behaviors specifically, one of the aims of the present study was to corroborate previous findings and demonstrate a significant relationship between these two constructs. Consistent with previous findings and the hypotheses of this study, the results of the present study indicated that mothers' temperament predicted significantly their parenting behaviors. Because mothers' temperament was measured on five separate scales (i.e., Activity Level-General, Approach-Withdrawal, Flexibility-Rigidity, Mood Quality, and Rhythmicity in Daily Habits) and mothers' parenting behaviors were measured on three separate scales (i.e., Positive, Negative/Inconsistent, and Punitive Parenting Behaviors), more specific relationships among the variables were offered to add to the existing knowledge in this field.

In particular, mothers' approach-withdrawal and mood quality predicted significantly their positive parenting behaviors in the overall sample and in the subsample with high ACEs. Additionally, mothers' flexibility-rigidity and rhythmicity in daily habits predicted significantly their negative/inconsistent parenting behaviors in the overall sample, but only mothers' rhythmicity in daily habits remained a predictor of negative/inconsistent parenting behaviors for mothers in the subsample with high ACEs. Further, mothers' flexibility-rigidity and rhythmicity in daily habits predicted significantly their punitive parenting behaviors in the overall sample and

in the subsample with high ACEs. Finally, mothers' general activity level was found to be a predictor of their punitive parenting behaviors in the overall sample only. Thus, the present study corroborated previous research, suggesting that mothers' temperament was related to their parenting behaviors. Additionally, the present study offered unique findings with regard to the relationships among more specific constructs of temperament and parenting behaviors than have been offered previously.

Next, parents' attributions have been examined previously as predictors of parenting behaviors. Research found that individuals with lower perceived control over failure reacted more negatively in affect and in parenting behaviors to more difficult children (Bugental et al., 1989). This relationship had not been examined in the context of mothers' own temperament and adverse childhood experiences, however. Thus, more evidence was needed to determine whether there were additional predictors that served as potential mediators in the relationship between mothers' temperament and parenting behaviors. Specifically, in addition to mothers' temperament, two other predictors of parenting behaviors, reflective functioning and attributions, were examined in the present study. In theory, parents with high reflective functioning should be able to form a deeper understanding of their own and others' emotions, motivations, and actions, and regulate their affect and behavior towards their children appropriately (Fonagy & Bateman, 2006). In fact, children whose parents were high in reflective functioning demonstrated better outcomes, including higher self-esteem and fewer behavior problems (Fonagy et al., 1991; Slade et al., 2005; Steele & Steele, 2008). It is important to note, however, that experiencing childhood maltreatment may hinder future parents' ability to demonstrate high reflective functioning toward their children (Fonagy & Target, 1997).

Similarly, mothers' attributions, or perceived control over failure, must be considered

when attempting to understand their perceptions of success and failure in their interactions with their young children. Specifically, when examining caregiver perceptions of negative caregiving outcomes, Bugental and colleagues (1989) found that individuals with lower perceived control over failure exhibited more negative responses toward children who were perceived to exhibit more difficult temperament. These caregivers also were found to be at higher risk for abusive caregiving (Bugental et al., 1989). As a result, mothers' reflective functioning and perceived control over failure were examined as predictors and potential mediators in the relationship between mothers' temperament and parenting behaviors within the context of mothers' adverse childhood experiences. It was hypothesized that reflective functioning and/or attributions would mediate the relationship between mothers' temperament and parenting behaviors.

Contrary to expected hypotheses, mothers' temperament failed to predict reflective functioning in the overall sample and in the subsample with high ACEs. Thus, it was not considered further in the context of mediational analyses. It is possible that the construct of reflective functioning may require examination from a different theoretical standpoint.

Specifically, given the previous relationship that was demonstrated between reflective functioning and childhood maltreatment (Borelli et al., 2014; Fonagy & Target, 1997), it may be beneficial to examine mothers' adverse childhood experiences as a predictor of their reflective functioning instead. Nonetheless, the present study was unique in demonstrating that the particular relationship between mothers' temperament and reflective functioning was not significant and that alternate models must be examined in the future.

Although reflective functioning did not serve as a mediator in the present study, mothers' attributions were noted to be a valuable mediator between mothers' temperament and their parenting behaviors. More specifically, mothers' approach-withdrawal and flexibility-rigidity

predicted their perceived control in the overall sample and in the subsample with high ACEs. Additionally, mothers' rhythmicity in daily habits predicted perceived control in the overall sample but not in the subsample with high ACEs. Further, mothers' perceived control predicted significantly their parenting behaviors, with attributions predicting positive, negative/inconsistent, and punitive parenting behaviors in the overall sample. Mothers' attributions only predicted significantly positive parenting behaviors in the subsample with high ACEs. Thus, mothers' perceived control over failure was found to be a significant mediator in the relationship between mothers' temperament and parenting behaviors.

Specifically, mothers' attributions mediated the relationship between their approach-withdrawal and their positive parenting behaviors, accounting for 9% of the variance in the overall sample and 15% of the variance in the subsample with high ACEs. This novel finding contributed valuable information to the current knowledge base on successful and unsuccessful parent-young child relationships. It is important to understand the specific detriments that mothers experience in general, and it is especially important to consider such detriments in the context of adverse childhood experiences. A deeper understanding of this relationship may help target dyadic interventions aimed at not only improving the current parent-young child relationship so as to enhance one particular mother's functioning and her young child's outcomes, but also to prevent the intergenerational transmission of harmful thought processes and behaviors.

Finally, the present study examined the impact of mothers' characteristics (i.e., adverse childhood experiences, temperament, psychological symptoms, and maternal role satisfaction), reflective functioning and attributions, and parenting behaviors on young children's temperament, behavior problems, and adaptive functioning. Again, these relationships were

examined in the context of mothers' ACEs. Given that foundational studies by Thomas and Chess (1977) suggested that mothers' and children's temperament were related bidirectionally, similar relationships were expected to be found in the present study. However, more recent research found that this relationship also may be related to mothers' psychosocial functioning (Friedlander et al., 1986; Kinsman & Wildman, 2001). In fact, research consistently showed that parents' psychological symptoms predicted worse child outcomes (Hughes et al., 2008). Thus, it was expected that the results of the present study would corroborate these findings in addition to contributing new information with regard to young children's adaptive functioning as an outcome measure based on maternal characteristics, reflective functioning and attributions, and parenting behaviors as predictors.

Consistent with expected hypotheses, mothers' temperament and other characteristics predicted significantly young children's temperament. Specifically, mothers' general activity level and level of approach to new stimuli predicted their young children's general activity level in the overall sample. These relationships did not remain significant in the subsample with high ACEs. In fact, none of the maternal variables that were examined predicted young children's general activity level in the subsample with high ACEs. Next, mothers' regularity in their daily habits, attributions, and negative/inconsistent parenting behaviors predicted young children's approach to new stimuli in the environment in the overall sample. Only mothers' regularity in their daily habits predicted young children's approach to new stimuli in the subsample with high ACEs. Further, mothers' general activity level, flexibility in their behavior style, externalizing behavior problems, and positive parenting behaviors predicted young children's flexibility in their behavior style in the overall sample. Uniquely, mothers' mood and satisfaction with their role as a parent predicted young children's flexibility in their behavior style in the subsample

with high ACEs. Additionally, mothers' mood and positive and negative/inconsistent parenting behaviors predicted young children's mood in the overall sample. In the subsample with high ACEs, mothers' attributions and positive parenting behaviors predicted significantly their young children's mood. The role of mothers' attributions in impacting young children's mood was unique to the subsample with high ACEs. Lastly, with regard to young children's temperament, mothers' regularity in their daily habits and positive parenting behaviors predicted young children's regularity in their own daily habits in the overall sample. No maternal variables predicted significantly their young children's regularity in their daily habits in the subsample with high ACEs.

Additionally, as hypothesized, mothers' psychological symptoms amongst other variables predicted significantly their young children's internalizing and externalizing behavior problems. In particular, mothers' externalizing behavior problems and positive parenting behaviors predicted their young children's internalizing behavior problems in the overall sample. Unique to the subsample with high ACEs, mothers' mood predicted their young children's internalizing behavior problems. Further, mothers' externalizing behavior problems, attributions, and punitive parenting behaviors predicted their young children's externalizing behavior problems in the overall sample. No maternal variables were demonstrated to predict young children's externalizing behavior in the subsample with high ACEs.

Finally, consistent with hypotheses, mothers' parenting behaviors predicted significantly their young children's adaptive functioning. Specifically, mothers' positive parenting behaviors predicted children's overall adaptive functioning in the total sample. No maternal variables were found to predict young children's overall adaptive functioning in the subsample with high ACEs. Given that young children's self-care skills became a variable of interest in the overall sample

and in the subsample with high ACEs since mean scores were significantly lower than expected, maternal variables also were examined as predictors of young children's self-care skills.

Interestingly, mothers' adverse childhood experiences and positive parenting behaviors predicted young children's self-care skills in the overall sample. Additionally, only mothers' internalizing behavior problems predicted their young children's self-care skills in the subsample with high ACEs. The findings related to young children's adaptive functioning were particularly interesting in both the overall sample and the high ACEs subsample. Previous research has not demonstrated these relationships, yet it is critical to gain a better understanding of the factors that may prevent young children from gaining the skills they need to function independently and successfully as they mature.

The limitations of the present study must be considered when interpreting the presented findings. First, all data were collected from one crowdsourcing Internet marketplace. Although one of the goals of this strategy of data collection was to capture a broad, national demographic, the vast majority of the participants indicated that they were Caucasian, married, had attended college, and were of middle class socioeconomic status. As such, it is difficult to determine the external validity of the findings to more culturally and economically diverse populations.

Additionally, over 30% (n=68) of the participants in the total sample reported having been exposed to a high number of adverse childhood experiences (i.e., 4 or more categories of exposure). This number was believed to be an adequate subsample in the present study, given that previous studies showed significant findings from ~6% exposure in the total population (Felitti et al., 1998). However, it is possible that despite accurate reporting of exposure to adverse experiences in childhood, participants may not have felt comfortable sharing other information regarding their own characteristics, cognitive processes, and behaviors. As a result,

caution always must be exhibited when interpreting the results of studies that rely solely on self-report measures despite efforts to ensure accurate responses (i.e., disqualifying participants based on incorrect answers to validity questions). To address these limitations, future studies must target specifically much broader, culturally and economically diverse populations and utilize observational data to provide measures of parent-young child relationships and problematic behaviors. Finally, researchers must identify and focus on at-risk families. Specifically, particular attention should be given to parents who have sought treatment for their own undesirable outcomes as a result of their exposure to adverse childhood experiences. Even more importantly, additional resources should be devoted to those families who have been identified by their local child welfare systems as requiring intervention so as to cease the intergenerational patterns of maladaptive cognitive processes and behaviors.

Despite the limitations, the present study contributed uniquely to the literature on parentyoung child relationships, parenting behaviors, and child outcomes. Specifically, previous
research has not examined mothers' reflective functioning and perceived control over failure as
potential mediators in these relationships. Another unique contribution is the finding that specific
parenting behaviors and mothers' internalizing behavior problems predict young children's
adaptive functioning. This area in particular deserves to be examined more extensively in future
studies, especially given that adaptive functioning skills are just too critical at such a young age
to succumb to potentially preventable setbacks. Most notably, the present study captures the
importance of targeting families as a whole, rather than children alone who are presented for
treatment, to provide lasting intervention services in an effort to improve each family member's
functioning, prevent long-term negative outcomes for young children, break intergenerational
cycles of adverse childhood experiences and negative or punitive parenting behaviors, and

enhance	the skills	s necessary i	for parents to	o provide	positive,	nurturing,	authoritative	care to	their
children	l .								

APPENDIX A: DEMOGRAPHICS QUESTIONNAIRE

1. Your Gene	ler: M F			
2. Your Age:				
3. Your Ethni	city: Caucasian	Hispanic	African-An	nerican
	Asian-Am	erican Nativ	e-American	Other
4. What, if an	y, is your religio	us affiliation?		
		trong at all; 10 = v		now strong of a religious affiliatior
5. Your Marita	l Status: Marrie	d Divorced	Separated	Widowed Single
Li	ving with Partne	r Remarried (If	so, how man	y previous marriages)
6. Does your o	hild's other pare	ent live with you?	Ye	s No
7. Please list	the age and gend	er of your child(re	en) and whet	ther or not they live with you.
Age	Ger	nder	Live with y	you?
	M	F	Y N	
	M	F	Y N	
	M	F	Y N	
	M	F	Y N	
8. Do you live	with any extend	ed family member	rs or friends?	Y N
9. If yes, who	?			
10. Your leve	l of education:			
Post Doct	orate		Vocational	Training
Graduate	Professional Tra	ining	High Schoo	ol Diploma

College Degree (bachelors)

Some High School

Some College

Less than High School

- 11. Your occupation: _____
- 12. Child's other parent's level of education:

Post Doctorate Vocational Training

Graduate Professional Training High School Diploma

College Degree (bachelors) Some High School

Some College Less than High School

- 13. Your child's other parent's occupation: _____
- 14. Estimated Yearly household income (please circle one):

Less than \$10,000 \$80,000 - \$90,000

\$10,000 - \$20,000 \$90,000 - \$100,000

\$20,000 - \$30,000 \$100,000 - \$110,000

\$30,000 - \$40,000 \$110,000 - \$120,000

\$40,000 - \$50,000 \$120,000 - \$130,000

\$50,000 - \$60,000 \$130,000 - \$140,000

\$60,000 - \$70,000 \$140,000 - \$150,000

\$70,000 - \$80,000 More than \$150,000

15. Estimated debt (please circle one):

Less than \$10,000 \$80,000 - \$90,000

\$10,000 - \$20,000 \$90,000 - \$100,000

\$20,000 - \$30,000	\$100,000 - \$110,000
\$30,000 - \$40,000	\$110,000 - \$120,000
\$40,000 - \$50,000	\$120,000 - \$130,000
\$50,000 - \$60,000	\$130,000 - \$140,000
\$60,000 - \$70,000	\$140,000 - \$150,000
\$70.000 - \$80.000	More than \$150.000

APPENDIX B: ADVERSE CHILDHOOD EXPERIENCES STUDY QUESTIONNAIRE

While you were growing up, during your first 18 years of life:

Yes

No

6. Were your parents ever separated or divorced?
Yes No
7. Was your mother or stepmother:
Often pushed, grabbed, slapped, or had something thrown at her? or
Sometimes or often kicked, bitten, hit with a fist, or hit with something hard? or
Ever repeatedly hit over at least a few minutes or threatened with a gun or knife?
Yes No
8. Did you live with anyone who was a problem drinker or alcoholic or who used street drugs?
Yes No
9. Was a household member depressed or mentally ill or did a household member attempt suicide?
Yes No
10. Did a household member go to prison?
Yes No

APPENDIX C: CHILDHOOD TRAUMA QUESTIONNAIRE

Please rate the frequency of each item during your childhood on a scale of 1 (Never) to 5 (Very Often) by completing the following sentence:

When I grew up...

Item No.	Items		F	requenc	cy	
		Never				Very
						Often
1.	I didn't have enough to eat.	1	2	3	4	5
2.	I knew that there was someone to take	1	2	3	4	5
	care of me and protect me.					
3.	People in your family called me things	1	2	3	4	5
	like "stupid," "lazy," or "ugly."					
4.	My parents were too drunk or high to	1	2	3	4	5
	take care of the family.					
5.	There was someone in my family who	1	2	3	4	5
	helped me feel that I was important or					
_	special.			_		_
6.	I had to wear dirty clothes.	1	2	3	4	5
7.	I felt loved.	1	2	3	4	5
8.	I thought that my parents wished I had	1	2	3	4	5
	never been born.				_	_
9.	I got hit so hard by someone in my	1	2	3	4	5
	family that I had to see a doctor or go to					
4.0	the hospital.	4	0	0		_
10.	There was nothing I wanted to change	1	2	3	4	5
11	about my family.	1	2	0	4	_
11.	People in my family hit me so hard that	1	2	3	4	5
10	it left me with bruises or marks.	1	2	2	4	_
12.	I was punished with a belt, a board, a	1	2	3	4	5
10	cord, or some other hard object.	1	2	2	4	-
13.	People in my family looked out for each	1	2	3	4	5
1.4	other.	1	2	2	4	F
14.	People in my family said hurtful or insulting things to me.	1	2	3	4	5
15	3 3	1	2	2	1	F
15. 16.	I believe that I was physically abused.	1 1	2 2	3 3	4 4	5 5
	I had the perfect childhood.		2	3		5 5
17.	I got hit or beaten so badly that it was	1	۷	3	4	5
	noticed by someone like a teacher,					

	neighbor, or doctor.					
18.	I felt that someone in my family hated me.	1	2	3	4	5
19.	People in my family felt close to each other.	1	2	3	4	5
20.	Someone tried to touch me in a sexual way, or tried to make me touch them.	1	2	3	4	5
21.	Someone threatened to hurt me or tell	1	2	3	4	5
	lies about me unless I did something sexual with them.					
22.	I had the best family in the world.	1	2	3	4	5
23.	Someone tried to make me do sexual things or watch sexual things.	1	2	3	4	5
24.	Someone molested me.	1	2	3	4	5
25.	I believe that I was emotionally abused.	1	2	3	4	5
26.	There was someone to take me to the	1	2	3	4	5
	doctor if I needed it.					
27.	I believe that I was sexually abused.	1	2	3	4	5
28.	My family was a source of strength and support.	1	2	3	4	5

APPENDIX D: TRAUMA SYMPTOMS CHECKLIST

How often have you experienced each of the following in the last two months?

	Never	Occasionally	Fairly Often	Very Often
	0	1	2	3
(1) Insomnia (trouble getting to sleep)	0	1	2	3
(2) Restless sleep	0	1	2	3
(3) Nightmares	0	1	2	3
(4) Waking up early in the morning and can't get back to sleep	0	1	2	3
(5) Weight loss (without dieting)	0	1	2	3
(6) Feeling isolated from others	0	1	2	3
(7) Loneliness	0	1	2	3
(8) Low sex drive	0	1	2	3
(9) Sadness	0	1	2	3
(10) Flashbacks (sudden, vivid, distracting memories)	0	1	2	3
(11) Spacing out (going away in your mind)	0	1	2	3
(12) Headaches	0	1	2	3
(13) Stomach problems	0	1	2	3
(14) Uncontrollable crying	0	1	2	3
(15) Anxiety attacks	0	1	2	3
(16) Trouble controlling temper	0	1	2	3
(17) Trouble getting along with others	0	1	2	3
(18) Dizziness	0	1	2	3
(19) Passing out	0	1	2	3
(20) Desire to physically hurt yourself	0	1	2	3

(21) Desire to physically hurt others	0	1	2	3
(22) Sexual problems	0	1	2	3
(23) Sexual overactivity	0	1	2	3
(24) Fear of men	0	1	2	3
(25) Fear of women	0	1	2	3
(26) Unnecessary or over-frequent washing	0	1	2	3
(27) Feelings of inferiority	0	1	2	3
(28) Feelings of guilt	0	1	2	3
(29) Feelings that things are "unreal"	0	1	2	3
(30) Memory problems	0	1	2	3
(31) Feelings that you are not always in your body	0	1	2	3
(32) Feeling tense all the time	0	1	2	3
(33) Having trouble breathing	0	1	2	3

APPENDIX E: DIMENSIONS OF TEMPERAMENT SCALE – REVISED FOR ADULTS

HOW TO ANSWER: On the following pages are some statements about how people like you may behave. Some of the statements may be true of your own behavior and others may not apply to you. For each statement we would like you to indicate if the statement is usually true of you, is more true than false of you, is more false than true of you, or is usually false of you. There are no "right" or "wrong" answers because all people behave in different ways. All you have to do is answer what is true for <u>you</u>.

On the line to the left of each statement write an \underline{A} if the statement is $\underline{usually}$ false for you, write a \underline{B} if the statement is \underline{more} false \underline{than} true for you, write a \underline{C} if the statement is \underline{more} true \underline{than} false for you, or write a \underline{D} if the statement is $\underline{usually}$ true for you.

= usually FALSE					
B= more FALSE than true					
= more TRUE than false					
= usually TRUE					
It takes me a long time to get used to a new thing in the home.					
I can't stay still for long.					
I laugh and smile at a lot of things.					
I wake up at different times.					
Once I am involved in a task, nothing can distract me from it.					
I persist at a task until it's finished.					
I move around a lot.					
B I can make myself at home anywhere.					
I can always be distracted by something else, no matter what I may be doing.					
0I stay with an activity for a long time.					
1If I have to stay in one place for a long time, I get very restless.					
2I usually move towards new objects shown to me.					
3It takes me a long time to adjust to new schedules.					
4I do not laugh or smile at many things.					
5If I am doing one thing, something else occurring won't get me to stop.					
6I eat about the same amount for dinner whether I am home, visiting someone, or traveling					
7My first reaction is to reject something new or unfamiliar to me.					

18Changes in plans make me restless.
19I often stay still for long periods of time.
20Things going on around me can <u>not</u> take me away from what I am doing.
21I take a nap, rest, or break at the same time every day.
22Once I take something up, I stay with it.
23Even when I am supposed to be still, I get very fidgety after a few minutes.
24I am hard to distract.
25I usually get the same amount of sleep each night.
26On meeting a new person I tend to move towards him or her.
27I get hungry about the same time each day.
28I smile often.
29I never seem to stop moving.
30It takes me no time at all to get used to new people.
31I usually eat the same amount each day.
32I move a great deal in my sleep.
33I seem to get sleepy just about the same time every night.
34I do not find that I laugh often.
35I move towards new situations.
36When I am away from home, I still wake up at the same time each morning.
37I eat about the same amount at breakfast from day to day.
38I move a lot in bed.
39I feel full of pep and energy at the same time each day.
40I have bowel movements at about the same time each day.
41No matter when I go to sleep, I wake up at the same time the next morning.
42In the morning, I am still in the same place as I was when I fell asleep.
43I eat about the same amount at supper from day to day.
44When things are out of place, it takes me a long time to get used to it.

45I wake up at the same time on weekends and holidays as on other days of the week.
46I don't move around much at all in my sleep.
47My appetite seems to stay the same day after day.
48My mood is generally cheerful.
49I resist changes in routine.
50I laugh several times a day.
51My first response to anything new is to move my head toward it.
52Generally, I am happy.
53The number of times I have a bowel movement on any day varies from day to day.
54I never seem to be in the same place for long.

APPENDIX F: PARENTAL REFLECTIVE FUNCTIONING QUESTIONNAIRE

Listed below are a number of statements concerning you and your child. Read each item and decide whether you agree or disagree and to what extent.

Use the following rating scale, with 7 if you strongly agree; and 1 if you strongly disagree; The midpoint, if you are neutral or undecided, is 4.

3

4

5

6

7

Strongly

2

1

Strongly

	Disagree Agree
1.	My child and I can feel differently about the same thing
2.	When I get angry with my child, I always know the reason why
3.	I am often curious to find out how my child feels
4.	How I am feeling can affect how I understand my child's behaviour.
5.	My child knows when I am having a bad day and does things to make it worse
6.	I like to think about the reasons behind the way my child behaves and feels
7.	I try to see situations through the eyes of my child
8.	I always know why my child acts the way he or she does
9.	My child sometimes gets sick to keep me from doing what I want to do
10	. I believe that how I think about my child will change over time
11	. My child can react to a situation very differently than I think he or she will
12	. I find it hard to actively participate in make believe play with my child
13	. At times, it takes several tries before I understand what my child needs or wants
14	. When my child is fussy he or she does that just to annoy me
15	. Now that I am a parent, I realize how my parents could have misunderstood my reactions
	when I was a child
16	. No matter how sick my child is, I can always tolerate him or her
17	. How I see my child changes as I change
18	. My behavior towards my child cannot be explained by how I was raised
19	. I can always predict what my child will do
20	. I wonder a lot about what my child is thinking and feeling

21. Often, my child's behavior is too confusing to bother figuring out. _____

23. When my child is misbehaving it's a sign that he or she does not love me. _____

24. I believe that how my parents raised me affects how I raise my child. _____

22. I can sometimes misunderstand the reactions of my child. _____

25. My child cries around strangers to embarrass me				
26. I pay attention to what my child is feeling				
27. I can completely read my child's mind				
$28. \ Understanding \ why \ my \ child \ behaves \ in \ a \ certain \ way \ helps \ me \ not \ to \ be \ upset \ with \ him \ or$				
her				
29. I believe there is no point in trying to guess what my child feels				
30. I often think about how I felt when I was a child				
31. I try to understand the reasons why my child misbehaves				
32. I always know what my child wants				
33. I hate it when my child cries and/or talks to me when I am on the phone with someone.				
34. The only time I'm certain my child loves me is when he or she is smiling at me				
35. I'm certain that my child knows that I love him or her				
36. The best way to know your child loves you is when he or she is well-behaved				
37. My child's temperament is what it is, and there is little that I can do about that				
38. I always know why I do what I do to my child				
39. At times I get confused about what my child is feeling				

APPENDIX G: PARENT ATTRIBUTION TEST

Child Interaction Survey

In this questionnaire, we want to know how important you believe different factors might be as potential causes of successful and unsuccessful interaction with children. We are interested in discovering the way people think about children—there are no right or wrong answers.

Example: If you were teaching a child an outdoor game and he or she caught on very quickly, how important do you believe these possible causes would be?

	Not at all important	Very important
a. how good he or she is in sports in general.	you think this f	round a number. bigger numbers if actor is important, mber if you think
b. how good a teacher you are.	1 2 3 4	5 6 7
c. how easy the game is.	1 2 3 4	5 6 7
Answer the following questions by making ra	tings in the same	way as shown above.
1. SUPPOSE YOU TOOK CARE OF A NEIGHBOR'S CH HAD A REALLY GOOD TIME TOGETHER. HOW IMP FACTORS WOULD BE AS REASONS FOR SUCH AN	PORTANT DO YOU BELI	
a. whether or not this was a "good day" for the child, e.g., whether there was a TV show s/he particularly wanted to see (or some other special thing to do).		5 6 7
d. how lucky you were in just having everything work out well.	1 2 3 4	5 6 7
e. how much the child enjoys being with adu	alts. 1 2 3 4	5 6 7
f. how pleasant a disposition the child had	1 2 3 4	5 6 7
g. how well the neighbor had set things up for you in advance.	1 2 3 4	5 6 7
h. whether the child was rested.	1 2 3 4	5 6 7

The next question asks about BAD experiences with children. Reasons for good interactions are not necessarily the same as those for unsuccessful ones. So please think about this situation without regard for the way you answered the first question.

2. SUPPOSE YOU TOOK CARE OF A NEIGHBOR'S CHILD ONE AFTERNOON, AND THE TWO OF YOU DID NOT GET ALONG WELL. HOW IMPORTANT DO YOU BELIEVE THE FOLLOWING FACTORS WOULD BE AS POSSIBLE REASONS FOR SUCH AN EXPERIENCE?

	•								
		Not a			_				ery ortant
b.	how unpleasant a disposition a disposition the child had.	1	1	2	3	4	5	6	7
c.	whether the child was tired or not feeling well.		1	2	3	4	5	6	7
d.	whether or not you really enjoy children that much.	1	L	2	3	4	5	6	7
f.	whether or not this was a bad day for the child, e.g., whether there was nothing good on TV, whether it was raining and he or she couldn't go outside.	i .	1	2	3	4	5	6	7
i.	whether you used the wrong approach for this child.	1	1	2	3	4	5	6	7
j.	the extent to which the child was stubborn and resisted your efforts. $ \\$	1	L ·	2	3	4	5	6	7
k.	how you get along with children in general.	. 1	1	2	3	4	5	6	7
m.	what kind of mood you were in that day.	1	1	2	3	4	5	6	7
q.	how hungry the child was.	:	1	2	3	4	5	6	7
t.	how little effort the child made to take are interest in what you said or did.	n 1	l	2	3	4	5	6	7
u.	the extent to which you were not feeling well that day.	1	1	2	3	4	5	б	7
z.	whether or not this was a bad day for you in general.	1	1	2	3	4	5	6	7

APPENDIX H: ALABAMA PARENTING QUESTIONNAIRE – PRESCHOOL REVISION

Alabama Parenting Questionnaire-Preschool Version (APQ-PR)

Please indicate how often you do/feel each of the following behaviors/feelings.

Scores range from 1 (never) to 5 (always). 1. ____You have a friendly talk with your child. 2. ____You volunteer to help with special activities that your child is involved in. 3. _____You play games or do other fun things with your child. 4. You ask your child about his/her day in school. 5. _____You help your child with his/her homework. 6. ____You compliment your child when he/she does something well 7. ____You praise your child if he/she behaves well. 8. You hug or kiss your child when he/she has done something well. 9. _____ You talk to your child about his/her friends. 10. _____ You tell your child that you like it when he/she helps around the house. 11. _____ You calmly explain to your child why his/her behavior was wrong when suhe/she misbehaves. 12. _____ You let your child know when he/she is doing a good job with something. 13. _____You threaten to punish your child and then do not actually punish him/her. 14. _____ Your child talks you out of being punished after he/she has done something wrong. The state of t 15. _____ You feel that getting your child to obey you is more trouble than it's worth. 16. You let your child out of a punishment early (e.g., lift restrictions earlier

than you originally said).

17You get so busy that you forget where your child is and what he/she is
doing. The probability of the probability of the state of the state of the control of the contro
18 Your child is not punished when he/she has done something wrong.
19 The punishment you give your child depends on your mood.
20. You spank your child with your hand when he/she has done something
wrong Subsection with above and graduated
21 You ignore your child when he/she is misbehaving.
22 You slap your child when he/she has done something wrong.
23You hit your child with a belt, switch, or other object when he/she has
done something wrong.
24You yell or scream at your child when he/she has done something wrong
25You reward or give something extra to your child for obeying you or
behaving well.
26. You drive your child to a special activity.
27You attend PTA meetings, parent/teacher conferences, or other meetings
at your child's school.
28 You don't tell your child where you are going.
29Your child is at home without adult supervision.
30You take away privileges or money from your child as a punishment.
31. You send your child to his/her room as a punishment.
32You use time out (make him/her sit or stand in comer) as a punishment.

APPENDIX I: ADULT SELF-REPORT

Please print your answers.	Adul	л Self-Repoi	For office use only ID#
people might not agree any item. Feel free to panswer all items. I. FRIENDS: A. About how many closs No B. About how many times Le C. How well do you get a not be n	n to reflect y You need n rint additional re friends do y ne [a month do you ss than 1 [along with you t as well as	our views, even if other of spend a lot of time on I comments. Be sure to ou have? (Do not include fault have contact with any of you have contact with any of your close friends? I'd like Average lo any friends or family visit	☐ 4 or more ur close friends? (Include in-person contacts, phone, letters, e-mail.) ☐ 5 or more ☐ Above average ☐ Far above average
☐ No—please skip☐ Yes—Circle 0, 1,	tus? Ne	ver been married rried, living with spouse dowed did you live with your spou tems A-H to describe your	relationship during the past 6 months:
0 1 2 A. I get ald 0 1 2 B. My spot sharing 0 1 2 C. I feel sa 0 1 2 D. My spot Copyright 2003 T. Ache ASEBA, University of V 1 South Prospect St., B	ong well with ruse or partner responsibilition with muse or partner and the partner responsible to the partner responsibilities and the partner responsibilities responsibilities and the partner responsibilities responsibilities and the partner responsibilities respons	y spouse or partner and I enjoy similar activities	Description 1 2 E. My spouse or partner and I disagree about living arrangements, such as where we live 1 2 F. I have trouble with my spouse or partner's family 1 2 G. I like my spouse or partner's friends 1 2 H. My spouse or partner's behavior annoys me Please be sure you have answered all item Then see other signal. 1-03 Edition - 11
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Please print. Be s	sure to answ	ver all items.		
II. FAMILY:	Worse t	han Variable or	Better than	No
Compared with others, how well do you:	Averag		Average	Contact
A. Get along with your brothers?				
B. Get along with your sisters?				
C. Get along with your mother?				
D. Get along with your father?				
E. Get along with your biological				
or adopted children?				
1. Oldest child Not applicable				
2. 2nd oldest child Not applicable				
3. 3rd oldest child ☐ Not applicable 4. Other children ☐ Not applicable				
4. Other children ☐ Not applicable F. Get along with your stepchildren? ☐ I have no stepchildren				
/. JOB: At any time in the past 6 months, did you have a		(including self-emp	oyment and m	ilitary service)?
☐ No—please skip to Section V.				
Yes—please describe your job(s):				VIEW TO SE
Circle 0, 1, or 2 beside items A-I to describe your w				
0 = Not True 1 = Somewhat or So	metimes Tru	e 2 = Very Ti	ue or Often T	rue
0 1 2 A. I work well with others	0 1 2	F. I do things that		
0 1 2 B. I have trouble getting along with bosses	0 1 2	G. I stay away fro		when I'm not
0 1 2 C. I do my work well	0 1 2	H. My job is too s		
0 1 2 D. I have trouble finishing my work	0 1 2	I. I worry too muc		
0 1 2 E. I am satisfied with my work situation	012	1. I Worry too mak	or about work	PERSONAL PROPERTY.
 V. EDUCATION: At any time in the past 6 months, did you No—please skip to Section VI. Yes—what kind of school or program? What degree or diploma are you seeking? 				
When do you expect to receive your degree or diplo				TELEVISION ST
Circle 0, 1, or 2 beside items A-E to describe your e				hs:
0 = Not True 1 = Somewhat or So			rue or Often T	
0 1 2 A. I get along well with other students	0 1 2	D. I am satisfied	with my educ	ational situation
0 1 2 B. I achieve what I am capable of	0 1 2	E. I do things th		
0 1 2 C. I have trouble finishing assignments				
VI. Do you have any illness, disability, or handicap? \Box N	o Yes—	please describe:	AND STATE	
/II. Please describe your concerns or worries about fam	ily, work, ed	ucation, or other t	nings:	No concerns
VIII. Please describe the best things about yourself:				
2000年,1900年,1900年,1900年,1900年,1900年	ic garage			
F	Page 2	Please be	sure you have	answered all iter

Please print your answers. Be sure to answer all items.

IX. Below is a list of items that describe people. For each item, please circle 0, 1, or 2 to describe yourself over the past 6 months. Please answer all items as well as you can, even if some do not seem to apply to you.

	0) = N	ot True 1 = Somewhat or Sometim	es Tru	ie			2 = Very True or Often True
			I am too forgetful					I get in many fights
0 1	2	2.	I make good use of my opportunities					My relations with neighbors are poor
0 1			I argue a lot					I hang around people who get in trouble
0 1	2	4.	I work up to my ability	0	1	2	40.	I hear sounds or voices that other people thir
0 1	2		I blame others for my problems					aren't there (describe):
0 1	2	6.	I use drugs (other than alcohol and nicotine)					
			for nonmedical purposes (describe):	0	1	2	41.	I am impulsive or act without thinking
				0	1	2	42.	I would rather be alone than with others
0 1	2	7.	Ibrag	0	1	2	43.	I lie or cheat
0 1	2	8.	I have trouble concentrating or paying attention	0	1	2	44.	I feel overwhelmed by my responsibilities
			forlong	0	1	2	45.	I am nervous or tense
0 1	2	9.	I can't get my mind off certain thoughts	0	1	2	46.	Parts of my body twitch or make nervous
			(describe):					movements (describe):
0 1	2	10.	I have trouble sitting still	0	1	2	47	l lack self-confidence
0 1	2	11.	I am too dependent on others		- 0			I am not liked by others
			I feel lonely					I can do certain things better than other peopl
0 1	2	13	I feel confused or in a fog					I am too fearful or anxious
			I cry a lot	0	4	2	51	I feel dizzy or lightheaded
			I am pretty honest					I feel too guilty
0 1			I am mean to others					
								I have trouble planning for the future I feel tired without good reason
			I daydream a lot I deliberately try to hurt or kill myself					
				0	1	2	55.	My moods swing between elation and
			I try to get a lot of attention I damage or destroy my things				56	depression Physical problems without known medical
							50.	cause:
			I damage or destroy things belonging to others	0	1	2	a	Aches or pains (<i>not</i> stomach or headaches)
			I worry about my future					Headaches
			I break rules at work or elsewhere					Nausea, feel sick
0 1	2	24.	I don't eat as well as I should					Problems with eyes (not if corrected by
			I don't get along with other people					glasses) (describe):
0 1	2	26.	I don't feel guilty after doing something I					
			shouldn't					Rashes or other skin problems
			I am jealous of others					Stomachaches
0 1	2	28.	I get along badly with my family					Vomiting, throwing up
0 1	2	29.	I am afraid of certain animals, situations, or					Heart pounding or racing Numbness or tingling in body parts
			places (describe):					
								I physically attack people
0 1	2	30.	My relations with the opposite sex are poor	0	1	2	58.	I pick my skin or other parts of my body
0 1	2	31.	I am afraid I might think or do something bad					(describe):
0 1			I feel that I have to be perfect					
0 1	2		I feel that no one loves me					I fail to finish things I should do
0 1			I feel that others are out to get me	0	1	2	60.	There is very little that I enjoy
			I feel worthless or inferior					My work performance is poor
0 1			I accidentally get hurt a lot, accident-prone	0	1	2	62.	I am poorly coordinated or clumsy
0 1	-	00.	1 acondentally got that a lot, acondent-profile					

Page 3

Please be sure you have answered all items. Then see other side.

Please print your answers. Be sure to answer all items. 1 = Somewhat or Sometimes True 2 = Very True or Often True 0 = Not True 93. I talk too much 0 1 2 63. I would rather be with older people than 0 1 2 0 1 2 94. I tease others a lot with people of my own age 0 1 2 64. I have trouble setting priorities 0 1 2 95. I have a hot temper 0 1 2 96. I think about sex too much 65. I refuse to talk 66. I repeat certain acts over and over 0 1 2 0 1 2 97. I threaten to hurt people 0 1 2 98. I like to help others (describe):_ 0 1 2 99. I dislike staying in one place for very long 67. I have trouble making or keeping friends 0 1 2 100. I have trouble sleeping (describe): _ 68. I scream or yell a lot 0 1 2 69. I am secretive or keep things to myself 0 1 2 101. I stay away from my job even when I'm not 70. I see things that other people think sick or not on vacation aren't there (describe): _ 0 1 2 102. I don't have much energy 0 1 2 103. I am unhappy, sad, or depressed 0 1 2 104. I am louder than others 71. I am self-conscious or easily 0 1 2 embarrassed 0 1 2 105. People think I am disorganized 0 1 2 72. I worry about my family 0 1 2 106. I try to be fair to others 73. I meet my responsibilities to my family 0 1 2 107. I feel that I can't succeed 74. I show off or clown 0 1 2 0 1 2 108. I tend to lose things 75. I am too shy or timid 0 1 2 0 1 2 109. I like to try new things 0 1 2 76. My behavior is irresponsible 0 1 2 110. I wish I were of the opposite sex 0 1 2 77. I sleep more than most other people 0 1 2 111. I keep from getting involved with others during day and/or night (describe): 0 1 2 112. I worry a lot 0 1 2 113. I worry about my relations with the opposite 78. I have trouble making decisions 0 1 2 79. I have a speech problem (describe): 0 1 2 114. I fail to pay my debts or meet other financial responsibilities 0 1 2 80. I stand up for my rights 0 1 2 115. I feel restless or fidgety 81. My behavior is very changeable 0 1 2 0 1 2 116. I get upset too easily 0 1 2 82. I steal 0 1 2 117. I have trouble managing money or credit 83. I am easily bored 0 1 2 cards 84. I do things that other people think are 0 1 2 0 1 2 118. I am too impatient strange (describe): __ 0 1 2 119. I am not good at details 0 1 2 120. I drive too fast 0 1 2 85. I have thoughts that other people would 0 1 2 121. I tend to be late for appointments think are strange (describe): __ 0 1 2 122. I have trouble keeping a job 0 1 2 123. I am a happy person 86. I am stubborn, sullen, or irritable 0 1 2 0 1 2 87. My moods or feelings change suddenly 124. In the past 6 months, about how many times per 0 1 2 88. I enjoy being with people day did you use tobacco (including smokeless 89. I rush into things without considering 0 1 2 tobacco)? _____ times per day. the risks 125. In the past 6 months, on how many days were 0 1 2 90. I drink too much alcohol or get drunk you drunk? days. 0 1 2 91. I think about killing myself 126. In the past 6 months, on how many days did you 92. I do things that may cause me trouble 0 1 2 use drugs for nonmedical purposes (including with the law (describe): _ marijuana, cocaine, and other drugs, except alcohol and nicotine)?

Page 4

Please be sure you have answered all items.

APPENDIX J: PARENTING SENSE OF COMPETENCE SCALE

Please rate the Strongl Disagre 1	=	agree or disagi Disagree 3	ree with each o Agree 4	of the followir Somewh Agree 5	_		Str Agr	ong	gly
-	ns of taking care of a ctions affect your child	•	-		1 2	3	4	5	6
_	h being a parent coul ild is at his / her pre	•	g, I am frustrat		1 2	3	4	5	6
=	he same way I wake ed a whole lot.	up in the morn	ing, feeling I h		1 2	3	4	5	6
	ow why it is, but some el more like the one b		= =		1 2	3	4	5	6
5. My mother	was better prepared	to be a good m	other than I a	m. 1	1 2	3	4	5	6
	ke a fine model for a she would need to kn				1 2	3	4	5	6
7. Being a pare	ent is manageable, ar	nd any problem	ıs are easily so	olved. 1	1 2	3	4	5	6
-	roblem in being a par d job or a bad one.	rent is not kno	wing whether	-	1 2	3	4	5	6
9. Sometimes	I feel like I'm not gett	ting anything d	one.		1 2	3	4	5	6
10. I meet by o	wn personal expecta l.	tions for exper	tise in caring		1 2	3	4	5	6
11. If anyone c the one.	an find the answer to	what is troub	ling my child,		1 2	3	4	5	6
12. My talents	and interests are in o	other areas, no	t being a parei	nt. 1	1 2	3	4	5	6
13. Considerin with this ro	g how long I've been ble.	a mother, I fee	l thoroughly f		1 2	3	4	5	6
•	nother of a child were so do a better job as a	-	eresting, I wo		1 2	3	4	5	6

15. I honestly believe I have all the skills necessary to be a good mother to my child.	1 2 3 4 5 6
16. Being a parent makes me tense and anxious.	1 2 3 4 5 6
17. Being a good mother is a reward in itself.	1 2 3 4 5 6

APPENDIX K: DIMENSIONS OF TEMPERAMENT SCALE – REVISED FOR CHILDREN

HOW TO ANSWER: On the following pages are some statements about how children like your own may behave. Some of the statements may be true of your child's behavior, and others may not apply to him or her. For each statement, we would like you to indicate if the statement is usually true of your child, is more true than false of your child, is more false than true of your child, or is usually false of your child. There are no "right" or "wrong" answers because all children behave in different ways. All you have to do is answer what is true or false for your child as well as how important this behavior is to you.

On the first line to the left of each statement write an \underline{A} if the statement is <u>usually false</u> of your child, write a \underline{B} if the statement is <u>more false than true</u> of your child, write a \underline{C} if the statement is <u>more true than false</u> of your child, or write a \underline{D} if the statement is <u>usually true</u> of your child.

On the second line to the right of each statement write a 0, 1, or 2. Write a 0 if it is a behavior that it not important to you at all, write a 1 if it is a behavior that is somewhat important to you, and write a 2 if it is a behavior that is very important to you.

A = usually FALSE B = more FALSE than true C = more TRUE than false D = usually TRUE	0 = NOT important 1 = SOMETIMES important 2 = VERY important
1It takes my child a long time to ge	et used to a new thing in the home.
2My child can't stay still for long.	
3My child laughs and smiles at a lo	ot of things.
4My child wakes up at different tir	nes.
5Once my child is involved in a tas	sk, nothing can distract him or her from it.
6My child persists at a task until it	's finished.
7My child moves around a lot.	
8My child can make him/herself a	t home anywhere.
9My child can always be distracted	d by something else, no matter what he or she may be doing.
10My child stays with an activity fo	or a long time.
11If my child has to stay in one pla 12My child usually moves toward in	ce for a long time, he/she gets very restless. new objects shown to him/her.
13It takes my child a long time to a	idjust to new schedules.

14. __My child does not laugh or smile at many things. 15. ___If my child is doing one thing, something else occurring won't get him/her to stop. 16. ___My child eats about the same amount for dinner whether he/she is home, visiting someone, or traveling. 17. ___My child's first reaction is to reject something new or unfamiliar to him/her. 18. __Changes in plans make my child restless. 19. __My child often stays still for long periods of time. 20. __Things going on around my child can <u>not</u> take him/her away from what he/she is doing. 21. __My child takes a nap, rest, or break at the same time every day. 22. __Once my child takes something up, he/she stays with it. 23. ___Even when my child is supposed to be still, he/she gets very fidgety after a few minutes. 24. My child is hard to distract. 25. __My child usually gets the same amount of sleep each night. 26. On meeting a new person my child tends to move toward him or her. 27. __My child gets hungry about the same time each day. 28. __My child smiles often. 29. __My child never seems to stop moving. 30. ___It takes my child no time at all to get used to new people. 31. __My child usually eats the same amount each day. 32. __My child moves a great deal in his/her sleep. 33. __My child seems to get sleepy just about the same time every night. 34. __I do not find my child laughing often. 35. ___My child moves toward new situations.

36. __When My child is away from home he/she still wakes up at the same time each morning.

37. __My child eats about the same amount at breakfast from day to day. 38. __My child moves a lot in bed. 39. __My child feels full of pep and energy at the same time each day. 40. __My child has bowel movements at about the same time each day. 41. __No matter when my child goes to sleep, he/she wakes up at the same time the next morning. 42. __In the morning, my child is still in the same place as he/she was when he/she fell asleep. 43. __My child eats about the same amount at supper from day to day. 44. ___When things are out of place, it takes my child a long time to get used to it. 45. __My child wakes up at the same time on weekends and holidays as on other days of the week. 46. __My child doesn't move around much at all in his/her sleep. 47. __My child's appetite seems to stay the same day after day. 48. __My child's mood is generally cheerful. 49. __My child resists changes in routine. 50. __My child laughs several times a day. 51. __My child's first response to anything new is to move his or her head toward it. 52. __Generally, my child is happy. 53. __The number of times my child has a bowel movement on any day varies from day to day.

54. __My child never seems to be in the same place for long.

APPENDIX L: CHILD BEHAVIOR CHECKLIST

CHII			Fi	rst	Middle	Last					E OF WORK, even if not working now. Please auto mechanic, high school teacher, homemake
		AME		LIII DIC ACE	CUII DIS ETUNI						hoe salesman, army sergeant.
		GEND		HILD'S AGE	CHILD'S ETHN	C	FATHEI TYPE C		ORK:		
		'S DATE			OR RACE CHILD'S BIRTH	IDATE	MOTHE TYPE C	R'S			
				٧.							
IVIO.	_	Da	ile	_11,	MO Da	ateYr	THIS F	ORI	/ FILL	ED OU	T BY: (print your full name)
Ple	ase	e fill o	ut thi	is form to re	eflect your vi	ew of the child's	_	_		September 1	
						Feel free to write	Your re	latio	nship t	o child:	
					to answer all	nd in the space	□ Мо	ther		Fathe	er Other (specify):
the	2 if	the ite	m is 1	very true or o	often true of th	e child. Circle the	1 if the	iter	n is s	omew	or within the past 2 months, please circle that or sometimes true of the child. If the
iten						e answer all items a					n if some do not seem to apply to the child
				(as far as ye			at or S			STrue	2 = Very True or Often True
0	1	2	1.		ns (without medi tomach or head		0	1	2		Easily jealous
0	1	2	2	Acts too your		acries)	0	1	2	31.	Eats or drinks things that are not food—don't
0	1	2		Afraid to try r							include sweets (describe):
0	1	2			ng others in the e	eye	0	1	2	32.	Fears certain animals, situations, or places
0	1	2			trate, can't pay a						(describe):
0	1	2	6.	Can't sit still,	restless, or hype	eractive					
0	1	2	7.	Can't stand h	aving things out	of place	0	1	2	33.	Feelings are easily hurt
0	1	2	8.	Can't stand v	vaiting; wants ev	erything now	0	1	2	34.	Gets hurt a lot, accident-prone
0	1	2	9.	Chews on thi	ings that aren't e	dible	0	1	2	35.	Gets in many fights
0	1	2	10.	Clings to adu	ilts or too depen	dent	0	1	2		Gets into everything
0	1	2	11.	Constantly se	eeks help		0	1	2		Gets too upset when separated from parents
0	1	2	12.		doesn't move be	owels (when not	0	1	2		Has trouble getting to sleep
•	1	2	12	sick) Cries a lot			0	1	2		Headaches (without medical cause)
0	1	2		Cruel to anim	nale		0	1	2	40.	Hits others Holds his/her breath
0	1	2		Defiant	iais		0	1	2		Hurts animals or people without meaning to
0	1	2			ust be met imme	diately	0	1	2		Looks unhappy without good reason
0	1	2			her own things		0	1	2		Angry moods
0	1	2			ngs belonging to	his/her family	0	1	2		Nausea, feels sick (without medical cause)
				or other child	Iren		0	1	2		Nervous movements or twitching
0	1	2			oose bowels (wh	en not sick)					(describe):
0	1	2		Disobedient							
0	1	2			any change in r	outine	0	1	2	47.	Nervous, highstrung, or tense
0	1	2			t to sleep alone		0	1	2	48.	Nightmares
0	1	2	23.		ver when people		0	1	2	49.	Overeating
0	1	2	24.	Doesn't eat v	vell (describe): _		0	1	2	50.	Overtired
0	4	2	25	Doesn't get o	along with other	children	0	1	2	51.	
0	1	2	25. 26.		along with other of the state o		0	1	2	52.	
3		•	20.	little adult	Thow to have lu	ii, acts like a	0	1	2	53	cause) Physically attacks people
0	1	2	27.		n to feel guilty aft	er misbehaving	0	1	2		Picks nose, skin, or other parts of body
0	1	2	28.		t to go out of hor						(describe):
							10000				

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7-28-00 Edition

	1	2		(as far as you know) 1 = Somewh Plays with own sex parts too much		1			2 = Very True or Often True
	1	2		Poorly coordinated or clumsy	0	'	-	79.	Rapid shifts between sadness and excitement
	1	2		Problems with eyes (without medical cause)	0	1	2	80.	Strange behavior (describe):
	•		37.	(describe):					(
				(decoribe).	0	1	2	81.	Stubborn, sullen, or irritable
	1	2	58	Punishment doesn't change his/her behavior	0	1	2	82.	Sudden changes in mood or feelings
	1			Quickly shifts from one activity to another	0	1	2		Sulks a lot
	1	2		Rashes or other skin problems (without	0	1	2	84.	Talks or cries out in sleep
				medical cause)	0	1	2	85.	Temper tantrums or hot temper
	1	2	61.	Refuses to eat	0	1	2	86.	Too concerned with neatness or cleanliness
	1	2	62.	Refuses to play active games	0	1	2	87.	Too fearful or anxious
	1	2	63.	Repeatedly rocks head or body	0	1	2	88.	Uncooperative
	1	2	64.	Resists going to bed at night	0	1	2	89.	Underactive, slow moving, or lacks energy
	1	2	65.	Resists toilet training (describe):	0	1	2	90.	Unhappy, sad, or depressed
					0	1	2	91.	Unusually loud
	1	2	66.	Screams a lot	0	1	2		Upset by new people or situations
	1	2	67.	Seems unresponsive to affection					(describe):
	1	2	68.	Self-conscious or easily embarrassed					
	1	2	69.	Selfish or won't share	0	1	2	93.	Vomiting, throwing up (without medical cause)
	1	2	70.	Shows little affection toward people	0	1	2	94.	Wakes up often at night
	1	2	71.	Shows little interest in things around him/her	0	1	2	95.	Wanders away
	1	2	72.	Shows too little fear of getting hurt	0	1	2	96.	Wants a lot of attention
	1	2	73.	Too shy or timid	0	1	2	97.	Whining
	1	2	74.	Sleeps less than most children during day	0	1	2	98.	Withdrawn, doesn't get involved with others
				and/or night (describe):	0	1	2	99.	Worries
								100.	Please write in any problems the child has
	1	2		Smears or plays with bowel movements					that were not listed above.
	1	2	76.	Speech problem (describe):	0	1	2		
					0	1	2		
	1	2		Stares into space or seems preoccupied	0	1	2		
	1	2	78.	Stomachaches or cramps (without medical cause)				P	lease be sure you have answered all items.
				ve any illness or disability (either physical o		·· /·			S T Total Gooding.
VI	nat	conce	erns yo	ou most about the child?					
(eas	e des	cribe t	he best things about the child:					

APPENDIX M: ADAPTIVE BEHAVIOR ASSESSMENT SYSTEM

Rate the child according to how often he or she **correctly** performs a behavior, when the behavior needs to be displayed. The rating you choose should reflect the frequency with which the child performs the behavior **when it is needed.** The child should be able to perform the activity or behavior without help unless otherwise indicated in the item. Record your response for each item by circling one of the following:

0 = Is Not Able

1 = Never or Almost Never When Needed

2 = Sometimes When Needed

3 = Always or Almost Always When Needed

The following table is provided to further assist you in filling out this form.

Rating	The child:
0 Is Not Able	cannot perform the behavior; is too young to have tried the behavior; or has a physical condition that prevents the behavior.
1 Never or Almost Never When Needed	has the ability to perform the behavior, but never or almost never does it when needed; or never or almost never does it on his/her own without being reminded.
2 Sometimes When Needed	has the ability to perform the behavior, and only does it sometimes when needed; sometimes does it without help, but sometimes needs help; or sometimes does it on his/her own, but sometimes needs to be reminded.
3 Always or Almost Always When Needed	has the ability to perform the behavior, and displays the behavior most or all of the time without being reminded; or displayed the behavior at a younger age, but has now outgrown it.

Column	Check this column if:
Check If You Guessed	 your rating was an estimate. you have never seen the child in a situation in which the behavior is needed. the child has not had the opportunity to perform the behavior.
Comments	 you do not understand an item.* you feel it would be helpful to discuss an item with the assessment professional.*

		0	BEHA	AVIOR FREQUE	ENCY		
Co	mmunication	is Not Able	Never When Needed	Sometimes When Needed	Always When Needed	Check If You Guessed	
1.	Looks at others' faces when they are talking.	0	1	2	3		1
2.	Laughs when a parent or other person laughs.	0	1	2	3		1
3.	Raises and lowers voice to express different feelings or needs.	0	1	2	3		(
4.	Cries or fusses when upset.	0	1	2	3		1
5.	Raises voice to get attention.	0	1	2	3		ľ
6.	Says the names of other people, for example, "Mama," "Daddy," or friends' names.	0	1	2	3		l
7.	Shakes head or says "yes" or "no" in response to a simple question, for example, "Do you want something to drink?"	0	1	2	3		
8.	Points to common items in a room when asked, for example, "Show me the TV."	0	1	2	3		ŀ
9.	Listens closely for at least one minute when people talk.	0	1	2	3		ľ
10.	Repeats words others say, for example, says "baby" when an adult says "baby."	0	1	2	3		ı
11.	Says the name of an object clearly enough so that others recognize it, for example, "ball," "dog," "cup."	0	1	2	3		ı
12.	Follows simple commands, for example, "No" or "Come here."	0	1	2	3		I
13.	Follows simple directions that include over or under, for example, "Put your hands over your head."	0	1	2	3		۱
14.	Sings all or part of the words to songs.	0	1	2	3		
15.	Makes plurals of words by adding an -s, for example, shoes, socks, and dogs.	0	1	2	3		ı

continued

	0.00	BEHAVE	OR FREQU	ENCY	
	s Not	When	Sometimes When Needed	Always When Needed	Check If You Guessed
ommunication continued	Able I	Needed 1	2	3	
6. Names 20 or more familiar objects.	0	1	2	3	
7. Uses sentences with a noun and a verb.	0	1	2	3	
8. Speaks in sentences of six or more words.	0	1	2	3	
9. Tells parent, friends, or others about his/her favorite activities.	0	1	2	3	
0. Asks questions such as "Will you play with me?"	0	1	2	3	
1. Uses past tense to talk about prior events, for example, "I stayed inside."	0	1	2	3	
2. Discusses a topic for more than three minutes.	0	1	2	3	
3. Ends conversations appropriately.	0	1	2	3	П
24. Refrains from interrupting others when they are talking.	0	1	2	3	
25. States his/her own telephone number.	U		-	/_ To	tal
A STATE OF THE STA		Total		/75 Gi	essed
o not complete the Community Use skill area if the child being rated is younger than 1 y 1. Recognizes own home in his/her immediate neighborhood.	0	1	2	3	
Walks on sidewalk rather than street.	0	1	2	3	
3. Informs parents when someone comes to the door.	0	1	2	3	
Shows respect for public property, for example, throws trash in cans, does not damage property.	0	1	2	3	
5. Knocks on a door or rings the doorbell before entering another person's home.	0	1	2	3	
6. Refrains from talking loudly in a public place, for example, in a theater, movie, or church	. 0	1	2	3	
7. Remains seated during a religious service or a movie.	0	1	2	3	-
8. Refrains from touching items in a store.	0	1	2	3	
9. Asks to go to a park or other favorite community place.	0	1	2	3	
10. Asks to eat in a favorite restaurant.	0	1	2	3	
11. Says what items are purchased at various stores, for example, food at grocery stores.	0	1	2	3	
12. Recognizes and names buildings, for example, hospital, gas station, or fire department	. 0	1	2	3	
13. Recognizes the need to pay for an item before leaving a store.	U	1	2	3	
14. Identifies neighborhood locations where his/her family obtains needed items, for example, where to buy food.	0		2	3	
15. Describes the duties of workers, for example, says that firefighters put out fires and doctors help the sick.	0	1	2		
16. Looks both ways before crossing a street or parking lot.	0		2	1000	
17. Asks to go to the library.	0	1	2		
18. Finds the restroom in public places.	0	1	-	1 -21	
19. Orders his/her own meals when eating out.	0	1	2	-	
20. Makes a small purchase at a food store.	0		-		
THE RESERVE OF THE PARTY OF THE	0	-	2	100	100
21. Walks alone to friends' houses in the neighborhood.		Second Second	4	-	
21. Walks alone to friends' houses in the neighborhood.22. Carries enough money to make small purchases, for example, a soft drink.	0			/	Total Guessed

	ABA	S-II PAREN				R (Ages	0
Functional Pre-Academics Do not complete the Functional Pre-Academics skill as	rea if the child being rated is you	Is Not Able	Never When Needed	Sometimes When Needed	Always When Needed	Check If You Guessed	- Comments
Points to pictures in books when asked, for example		0	1	2	3		10
Holds crayon or pencil with point down when using		0	1	2	3		1
States his/her age in years when asked.	ig paper.	0	1	2	3		12
4. Counts three or more objects.	TO SHARE SHOWING THE REAL PROPERTY.	0	1	2	3		1
 Attempts to imitate simple drawings, for example, 	conving a line or circle	0	1	2	3		1
Sings the alphabet song.	copying a line of circle.	0	1	2	3		1
Names six or more colors including red, blue, and	vallous	0	1	2	3		12
	yellow.	0	1	2	3		
8. Recites nursery rhymes from memory.		NSV.					1
9. Identifies at least two numbers from a group of no	AND ALLEY AND ADDRESS OF THE PARTY OF THE PA	0	1	2	3		
10. Names four or more shapes such as circle, square,	rectangle, triangle.	0	1	2	3		Ľ
11. Reads own name when printed.		0	1	2	3		Ľ
12. Counts 10 or more objects without using fingers.		0	1	2	3		ľ
Draws a recognizable face that includes two eyes,		0	1	2	3		ľ
14. Names at least two letters when shown own name		0	1	2	3		Ľ
15. Names most letters when shown the alphabet.		0	1	2	3		ľ
6. Counts from 1 to 20.		0	1	2	3		ľ
17. Prints at least two letters in own name.	NAMES OF THE OWNER	0	1	2	3		ľ
8. Reads and obeys common signs, for example, Do	Not Enter, Exit, or Stop.	0	1	2	3		ľ
9. States the days of the week in order.		0	1	2	3		ľ
20. Writes numbers 1 to 10.		0	1	2	3		1
 Tells what day comes before another, for example "Wednesday comes before Thursday." 		0	1	2	3		ľ
22. Writes his/her first and last names.		0	1	2	3		1
3. States time and day of favorite television shows.		0	1	2	3		ľ
			Total		69 Tot	al essed	
Iome Living o not complete the Home Living skill area if the chil							
Removes cookies, chips, or other food from a box	or bag.	0	1	2	3		Ľ
 Turns television on and off. Shows concern when he/she spills something, 		0	1	2	3		
for example, says "Oh no" or tells an adult.							ı
4. Points to the place where his/her clothes are store	d.	0	1	2	3		ľ
5. Uses wall switch to turn lights on and off, even if	a chair or stool is needed.	0	1	2	3		P
Assists other people with putting away toys, game	s, and other items.	0	1	2	3		1
7. Picks up and throws away trash or paper at home.		0	1	2	3		1
8. Does simple errand when asked, for example, runs	s to get a towel for a spill.	0	1	2	3		1
9. Attempts to wipe up spills, even if an adult must h	nelp.	0	1	2	3		1
Refrains from kicking or hitting furniture.		0	1	2	3		1
Gets own snacks from cabinet or pantry.		0	1	2	3		1

		BEHA	VIOR FREQU	ENCY		
Home Living continued	ls Not Able	Never When Needed	Sometimes When Needed	Always When Needed	Check If You Guessed	
12. Offers to help a parent or other adult with tasks.	Living continued Se to help a parent or other adult with tasks. 0 1	2	3			
13. Refrains from throwing food or paper on the floor.	0	1	2	3		ı
14. Assists adults with preparing simple snacks or meals, for example, hands slices of bread to adult for making sandwiches.	0	1	2	3		
15. Places dirty clothes in the proper place, for example, a hamper or clothesbasket.	0	1	2	3		1
16. Wipes up spills at home.	0	1	2	3		ı
17. Puts own dirty glass or plate in sink or dishwasher.	0	1	2	3		1
	0	1	2	3		ı
19. Keeps dirty shoes and feet off furniture.	0	1	2	3		ı
	0	1	2	3		
	0	1	2	3		ı
	0	1	2	3		1
23. Disposes of own leftover food.	0	1	2	3		ı
24. Makes his/her own bed.	0	1	2	3		1
25. Folds clean clothes.	0	1	2	3		M
20. Fords clean civeres.		Total		/75 To	tal essed	7
Cries or whimpers when he/she does not feel well or is injured.	0	1	2	3		
1. Cries or whimpers when he/she does not feel well or is injured.	0	1	2	3		
2. Swallows liquid medicines if needed for illness.	0	1	2	3	Щ	H
3. Avoids bumping into walls or objects when crawling or walking.	0	1	2	3		Ш
4. Shows, points to, or tells another person about a cut, bruise, or other minor injury.	0	1	2	3		4
5. Follows an adult's directions to "Stop" when in danger, for example, near a hot stove.	0	1	2	3		
6. Points to the body part that hurts when sick or injured.	0	1	2	3		ı
7. Avoids getting too near a fire or hot stove.	0	1	2	3		
8. Allows temperature to be taken without fussing.	0	1	2	3		ı
9. Remains fairly still when an adult treats a cut or scrape.	0	1	2	3		
10. Tests hot foods before eating them.	0	1	2	3		ı
11. Avoids touching or playing with dangerous items, for example, insect spray or sharp knives.	0	1	2	3		
12. Tells an adult if he/she has a stomach ache or other illness.	0	1	2	3		
13. Refrains from putting toys in mouth.	0	1	2	3		
14. Avoids crawling or climbing on high or dangerous places.	0	1	2	3		
	0	1	2	3		
15. Stays within sight of parents or other familiar adults in a public place without wandering off.	0	1	2	3		
15. Stays within sight of parents or other familiar adults	U	1	2	3		
15. Stays within sight of parents or other familiar adults in a public place without wandering off.16. Puts on a coat or sweater when cold.17. Carries breakable objects safely and carefully.	-		-	3		
15. Stays within sight of parents or other familiar adults in a public place without wandering off.16. Puts on a coat or sweater when cold.	0	1	2			y
 Stays within sight of parents or other familiar adults in a public place without wandering off. Puts on a coat or sweater when cold. Carries breakable objects safely and carefully. Asks an adult before going near something that could be dangerous, 	0	1	2	3		

		BEHA	VIOR FREQU	ENCY	
Health and Safety continued	ls Not	Never When Needed	Sometimes When Needed	Always When Needed	Check If You Guessed
21. Follows safety rules for fire or weather alarms at home.	0	1	2	3	
22. Carries hot containers safely and carefully.	0	1	2	3	
23. Uses electrical outlets or sockets safely.	0	1	2	3	
24. Cares for his/her minor injuries, for example, paper cuts, knee scrapes, or nosebleeds.	0	1	2	3	
	90.	Total	10.0	/72 Tot	al essed
		10101		/ 00	00000
Leisure					
Plays with a single toy or game for at least one minute.	0	1	2	3	
2. Plays alone with toys, games, or other fun activities.	0	1	2	3	
3. Looks at pictures in books or magazines with an adult.	0	1	2	3	
4. Watches for a few minutes as people play with toys or games.	0	1	2	3	
5. Plays simple games like "peek-a-boo" or rolls a ball to others.	0	1	2	3	
6. Chooses a game or toy during playtime.	0	1	2	3	
7. Plays with a single toy or game for more than five minutes.	0	1	2	3	
8. Plays on playground equipment with an adult.	0	-1	2	3	
9. Plays with toys, games, or other fun items with other people.	0	1	2	3	
10. Plays with other children when asked.	0	1	2	3	
11. Plays on playground equipment.	0	1	2	3	
12. Asks to be read to from a favorite book.	0	1	2	3	
13. Attends fun activities at another's home.	0	1	2	3	
14. Plays simple games with playmates without adult supervision.	0	1	2	3	
15. Invites others to join him/her in playing games and other fun activities.	0	1	2	3	
16. Participates in a specific fun activity on a routine basis, for example, listening to a certain type of music or playing a favorite computer game.	0	1	2	3	
17. Waits for his/her own turn in games and other fun activities.	0	1	2	3	
18. Saves things of interest, for example, rocks, feathers, pictures.	0	1	2	3	
19. Invites others home for a fun activity.	0	1	2	3	
20. Plays simple board games.	0	1	2	3	
21. Follows the rules in games.	0	1	2	3	
Participates in an organized program for a sport or hobby, for example, takes a music class or practices basketball.	0	1	2	3	
		Total		66 Gu	al essed
Self-Care					
1. Swallows liquids with no difficulty.	0	1	2	3	
2. Nurses, drinks, or eats willingly, with little encouragement.	0	1	2	3	
3. Swallows soft, strained, or mashed food such as baby food or applesauce.	0	1	2	3	
4. Sleeps through most of the night, waking no more than one or two times.	0	1	2	3	
5. Opens mouth when offered food on a spoon.	0	1	2	3	
6. Feeds himself/herself crackers, cookies, dry cereal, or other finger foods.	0	1	2	3	
7. Drinks from a cup or glass, even if another person must hold it.	0	1	2	3	П

	is Not	Never When	Sometimes When	Always When	Check If You	
self-Care continued	Able	Needed	Needed	Needed	Guessed	
8. Holds and drinks from a sipping cup.	0	1	2	3		ľ
9. Lifts arms as needed when another person is dressing or undressing him/her.	0	1	2	3		ľ
(0. Points to or asks for food when hungry.	0	1	2	3		ľ
11. Takes shoes off.	0	1	2	3		ľ
2. Sleeps through the entire night without waking.	0	1	2	3		ľ
13. Washes hands with soap.	0	1	2	3		ľ
14. Sits on the toilet or potty seat without being held.	0	1	2	3		ı
15. Wipes own face when given a cloth by an adult.	0	1	2	3		ľ
16. Goes to bed with few or no complaints.	0	1	2	3		ľ
17. Tells parent or other adult when he/she needs to use the bathroom.	0	1	2	3		ľ
18. Brushes own teeth with little fussing when told by an adult.	0	1	2	3		ı
19. Uses bathroom without help.	0	1	2	3		
20. Dresses himself/herself.	0	1	2	3		ı
21. Buttons his/her own clothing.	0	1	2	3		
22. Takes a bath or shower without help.	0	1	2	3		ı
23. Washes his/her own hair.	0	1	2	3		
24. Cuts meats or other foods into bite-size pieces.	0	1	2	3		
Self-Direction						
Self-Direction 1. Shows interest in a toy or other object by looking at it for a few seconds.	0	1	2	3		
	0	1	2 2	3		
1. Shows interest in a toy or other object by looking at it for a few seconds.		-	-	-		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. 	0	1	2	3		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. 	0	1	2	3		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. 	0 0	1 1 1	2 2 2	3 3 3		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. 	0 0 0	1 1 1 1	2 2 2 2	3 3 3		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the 	0 0 0 0	1 1 1 1 1	2 2 2 2 2	3 3 3 3		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the parent is in sight, for example, when visiting in an unfamiliar house. 	0 0 0 0 0 0	1 1 1 1 1 1	2 2 2 2 2 2 2	3 3 3 3 3 3	0000000000	
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the parent is in sight, for example, when visiting in an unfamiliar house. Chooses the food or snack he/she wishes to eat when given a choice. Explores an unfamiliar room or other new situation, even if parent 	0 0 0 0 0 0	1 1 1 1 1 1	2 2 2 2 2 2 2	3 3 3 3 3 3	000000000000	
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the parent is in sight, for example, when visiting in an unfamiliar house. Chooses the food or snack he/she wishes to eat when given a choice. Explores an unfamiliar room or other new situation, even if parent must encourage it, for example, a waiting room. 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3	000000000000000000000000000000000000000	
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the parent is in sight, for example, when visiting in an unfamiliar house. Chooses the food or snack he/she wishes to eat when given a choice. Explores an unfamiliar room or other new situation, even if parent must encourage it, for example, a waiting room. Obeys an adult's request to "quiet down" or "behave." 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3		
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 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the parent is in sight, for example, when visiting in an unfamiliar house. Chooses the food or snack he/she wishes to eat when given a choice. Explores an unfamiliar room or other new situation, even if parent must encourage it, for example, a waiting room. Obeys an adult's request to "quiet down" or "behave." Tries to do most things without an adult's help, for example, dressing or feeding so the follows simple household rules such as, "No running in the house." Resists pushing or hitting another child when angry or upset. 	0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the parent is in sight, for example, when visiting in an unfamiliar house. Chooses the food or snack he/she wishes to eat when given a choice. Explores an unfamiliar room or other new situation, even if parent must encourage it, for example, a waiting room. Obeys an adult's request to "quiet down" or "behave." Tries to do most things without an adult's help, for example, dressing or feeding so Follows simple household rules such as, "No running in the house." Resists pushing or hitting another child when angry or upset. Starts an activity almost immediately when told to do so, for example, taking a bar 	0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3 3		
 Shows interest in a toy or other object by looking at it for a few seconds. Stops fussing or crying when picked up or spoken to. Entertains self in crib or bed for at least one minute after waking. Sits quietly for at least one minute without demanding attention. Finds something to do for at least five minutes without demanding attention. Shows interest in a toy or other object by pointing to it. Moves a few feet away from a parent in a new situation as long as the parent is in sight, for example, when visiting in an unfamiliar house. Chooses the food or snack he/she wishes to eat when given a choice. Explores an unfamiliar room or other new situation, even if parent must encourage it, for example, a waiting room. Obeys an adult's request to "quiet down" or "behave." Tries to do most things without an adult's help, for example, dressing or feeding so the follows simple household rules such as, "No running in the house." Resists pushing or hitting another child when angry or upset. Starts an activity almost immediately when told to do so, for example, taking a bat to keeps working on hard tasks without becoming discouraged or quitting. 	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3 3 3 3		

						R (Ages
			Never	AVIOR FREQU Sometimes	All San Control	Check
Sel	f-Direction continued	Is Not Able	When Needed	When Needed	When Needed	If You Guessed
18.	Controls temper when a parent or other adult takes a toy or object away.	0	1	2	3	
19.	Works on one home or school activity for at least 15 minutes.	0	1	2	3	
20.	Stops a fun activity, without complaints, when told that time is up.	0	1	2	3	
21.	Controls temper when disagreeing with friends.	0	1	2	3	
22.	Follows a routine without being reminded, for example, brushing teeth before bedtime or regularly feeding a pet.	0	1	2	3	
23.	Asks permission before playing with another child's toy or game.	0	1	2	3	
24.	Chooses own clothes almost every day.	0	1	2	3	
25.	Discusses ways to solve conflicts with others, for example, "You can have this now if I can have it later."	0	1	2	3	
			Total		75 Gu	al essed
Soc	ial					
1.	Smiles when he/she sees parent.	0	1	2	3	
2.	Squeals or laughs when happy or delighted.	0	1	2	3	
3.	Relaxes body when held, for example, snuggles.	0	1	2	3	
4.	Lifts arms to express a desire to be picked up.	0	1	2	3	
5.	Shows a sense of humor, for example, laughs when someone acts silly.	0	1	2	3	
	Displays a special closeness or relationship to parent, for example, acts happy when parent returns.	0	1	2	3	
	Responds differently to familiar and unfamiliar persons, for example, is less warm to an unfamiliar person.	0	1	2	3	
8.	Hugs and kisses parents or others.	0	1	2	3	
9.	Runs to greet special family members and friends.	0	1	2	3	
10.	Imitates actions of adults, for example, pretends to clean house or drive a car.	0	1	2	3	
11.	Shares toys willingly with others.	0	1	2	3	
12.	Greets other children, for example, says "Hi."	0	1	2	3	
13.	Says "Thank you" when given a gift.	0	1	2	3	
14.	Shows sympathy for others when they are sad or upset.	0	1	2	3	
15.	Seeks friendship with others in his/her age group.	0	1	2	3	
16.	Responds appropriately when introduced to others, for example, says "Hello."	0	1	2	3	
17.	Moves out of another person's way without being asked.	0	1	2	3	
18.	Offers assistance to others, for example, offers to carry packages or put away for	ood. 0	1	2	3	
19.	Says when he/she feels happy, sad, scared, or angry.	0	1	2	3	
20.	States when others seem happy, sad, scared, or angry.	0	1	2	3	
21.	Apologizes if he/she hurts the feelings of others.	0	1	2	3	
	Places reasonable demands on friends, for example, does not become upset wi a friend plays with another friend.	nen 0	1	2	3	
23.	Refrains from saying something that might embarrass or hurt others.	0	1	2	3	
24.	Personally makes or buys gifts for family members on major holidays.	0	1	2	3	
			Total		72 Tota	nl essed

		BEHA	AVIOR FREQUE	ENCY		
lotor	ls Not Able	Never When Needed	Sometimes When Needed	Always When Needed	Check If You Guessed	2
Follows a moving object by turning head.	0	1	2	3		
2. Lifts head to look around.	0	1	2	3		
3. Rolls from stomach to side.	0	1	2	3		(
4. Shakes rattle or other toys.	0	1	2	3		(
5. Reaches for objects such as a bottle or toy.	0	1	2	3		(
6. Moves to a sitting position, even if balance is unsteady.	0	1	2	3		1
7. Sits balanced for 30 seconds or more without support.	0	1	2	3		
8. Pulls self to a standing position, for example, in a crib.	0	1	2	3		1
9. Picks up small flat objects from a table, for example, coins or buttons.	0	1	2	3		1
0. Stands up from a sitting position.	0	1	2	3		1
1. Crawls for about 10 feet without falling over.	0	1	2	3		ľ
2. Rolls ball to others.	0	1	2	3		ľ
3. Walks without help.	0	1	2	3		1
4. Stands on tiptoe to reach objects.	0	1	2	3		ľ
5. Throws small ball overhanded.	0	1	2	3		ď
6. Runs for several yards, even if the steps are unsteady.	0	1	2	3		ľ
7. Kicks ball without falling.	0	1	2	3		4
8. Runs without falling.	0	1	2	3		ď
9. Walks up and down stairs with no help from others (may use handrail).	0	-	2	3		4
0. Blows out candles, for example, on birthday cake.	0	1	2	3		ľ
1. Bounces ball for several seconds.	0		2	3		8
2. Catches ball tossed from 5 to 10 feet away.	0	1	2	3		ľ
23. Draws straight lines across a piece of paper.	0		2	3		ď
4. Uses scissors to cut paper without assistance, even if must be supervised.	0	1	2	3		ı
25. Colors within the lines of a drawing or in a coloring book.	0	1	2	3		ı
26. Uses scissors to cut along a straight line.	0	1	2	3		н
27. Uses scissors to cut shapes with curved lines.	0		2	/a. Tot	al al	7
		Total			essed	
Votes						

APPENDIX N: MEDIATION MODEL

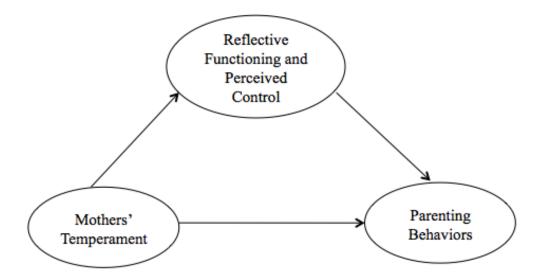


Figure 1: **Mediation Model**

APPENDIX O: TABLES

Table 1. Descriptive Statistics of Variables of Interest for Total and Trauma Samples

Mothers' Adverse Childhood Experiences (0-10) 2.34 (2.49) 5.59 (1.73) 0-10 4-10 Mothers' Childhood Tauma (28-140) 44.96 (20.97) 69.02 (19.57) 28-119 33-119 Mothers' Trauma Symptoms Total Childhood Trauma (28-140) 44.96 (20.97) 69.02 (19.57) 28-119 33-119 Mothers' Trauma Symptoms Total Trauma Symptoms (0-99) 15.86 (14.28) 24.72 (15.85) 0-61 0-61 Mothers' Trauma Symptoms (0-99) 15.86 (14.28) 24.72 (15.85) 0-61 0-61 Mothers' Temperament 16.84 (4.61) 18.10 (5.30) 7-27 7-27 Approach-Withdrawal (7-28) 18.68 (3.59) 18.06 (3.83) 9-28 9-27 Flexibility-Rigidity (5-20) 13.37 (3.45) 13.17 (3.54) 5-20 6-20 Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning 11-76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning (1-7)	Variables (Available Range)	Total M (SD)	Trauma M (SD)	Actual Range Total	Actual Range Trauma
Mothers' Childhood Trauma (28-140) 44.96 (20.97) 69.02 (19.57) 28-119 33-119 Mothers' Trauma Symptoms Total Trauma Symptoms (0-99) 15.86 (14.28) 24.72 (15.85) 0-61 0-61 Mothers' Temperament General Activity Level (7-28) 16.84 (4.61) 18.10 (5.30) 7-27 7-27 Approach-Withdrawal (7-28) 18.68 (3.59) 18.06 (3.83) 9-28 9-27 Flexibility-Rigidity (5-20) 13.37 (3.45) 13.17 (3.54) 5-20 6-20 Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning Total Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Perceived Control Over Failure 51 (.82) 59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35	Mothers' Adverse Childhood Experiences	, ,	, ,		
Total Childhood Trauma (28-140) 44.96 (20.97) 69.02 (19.57) 28-119 33-119 Mothers' Trauma Symptoms 15.86 (14.28) 24.72 (15.85) 0-61 0-61 Mothers' Temperament 6 16.84 (4.61) 18.10 (5.30) 7-27 7-27 Approach-Withdrawal (7-28) 18.68 (3.59) 18.06 (3.83) 9-28 9-27 Flexibility-Rigidity (5-20) 13.37 (3.45) 13.17 (3.54) 5-20 6-20 Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions 5 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Parenting Behaviors 51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors 7 7-35 7-35 7-35 7-35 Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60<	Total Adverse Childhood Experiences (0-10)	2.34 (2.49)	5.59 (1.73)	0-10	4-10
Mothers' Trauma Symptoms 15.86 (14.28) 24.72 (15.85) 0-61 0-61 Mothers' Temperament General Activity Level (7-28) 16.84 (4.61) 18.10 (5.30) 7-27 7-27 Approach-Withdrawal (7-28) 18.68 (3.59) 18.06 (3.83) 9-28 9-27 Flexibility-Rigidity (5-20) 13.37 (3.45) 13.17 (3.54) 5-20 6-20 Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning Total Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Autributions Total Perceived Control Over Failure .51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-20) 52.24 (8.01) 25	Mothers' Childhood Trauma				
Total Trauma Symptoms (0-99) 15.86 (14.28) 24.72 (15.85) 0-61 0-61 Mothers' Temperament General Activity Level (7-28) 16.84 (4.61) 18.10 (5.30) 7-27 7-27 Approach-Withdrawal (7-28) 18.68 (3.59) 18.06 (3.83) 9-28 9-27 Flexibility-Rigidity (5-20) 13.37 (3.45) 13.17 (3.54) 5-20 6-20 Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning 70tal Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions 51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70)	Total Childhood Trauma (28-140)	44.96 (20.97)	69.02 (19.57)	28-119	33-119
Mothers' Temperament In the second process of t	Mothers' Trauma Symptoms				
General Activity Level (7-28) 16.84 (4.61) 18.10 (5.30) 7-27 7-27 Approach-Withdrawal (7-28) 18.68 (3.59) 18.06 (3.83) 9-28 9-27 Flexibility-Rigidity (5-20) 13.37 (3.45) 13.17 (3.54) 5-20 6-20 Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning Total Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Perceived Control Over Failure .51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting Behaviors 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Sattisfaction with their Parenting	Total Trauma Symptoms (0-99)	15.86 (14.28)	24.72 (15.85)	0-61	0-61
Approach-Withdrawal (7-28) 18.68 (3.59) 18.06 (3.83) 9-28 9-27 Flexibility-Rigidity (5-20) 13.37 (3.45) 13.17 (3.54) 5-20 6-20 Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning Total Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Perceived Control Over Failure 51 (.82) 59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 Young Children's Behavior Problems Internalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 28-70 28-70 Flexibility-Rigidity Functioning General Adaptive Functioning General Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64)	Mothers' Temperament				
Plexibility-Rigidity (5-20)	General Activity Level (7-28)	16.84 (4.61)	18.10 (5.30)	7-27	7-27
Mood Quality (7-28) 23.77 (4.09) 23.08 (4.55) 8-28 13-28 Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 5-20 Mothers' Reflective Functioning Total Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Perceived Control Over Failure .51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament 20.81 (4.74)	Approach-Withdrawal (7-28)	18.68 (3.59)	18.06 (3.83)	9-28	9-27
Rhythmicity in Daily Habits (5-20) 12.76 (2.93) 12.42 (3.26) 5-20 Mothers' Reflective Functioning 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Reflective Functioning (1-7) 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Perceived Control Over Failure .51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88	Flexibility-Rigidity (5-20)	13.37 (3.45)	13.17 (3.54)	5-20	6-20
Mothers' Reflective Functioning 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Perceived Control Over Failure .51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems (50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66)	Mood Quality (7-28)	23.77 (4.09)	23.08 (4.55)	8-28	13-28
Mothers' Reflective Functioning 4.80 (.37) 4.80 (.36) 4-6 4-6 Mothers' Attributions Total Perceived Control Over Failure .51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems (50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66)	Rhythmicity in Daily Habits (5-20)	12.76 (2.93)	12.42 (3.26)	5-20	5-20
Total Reflective Functioning (1-7) $4.80 (.37)$ $4.80 (.36)$ $4-6$ $4-6$ Mothers' Attributions Total Perceived Control Over Failure .51 $(.82)$.59 $(.90)$ -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Satisfaction With their Parenting Total Satisfaction with their Parenting Total Satisfaction with their Parenting Total Satisfaction with their Parenting Total Satisfaction with their Parenting Total Satisfaction with their Parenting Satisfaction with their Parenting Total Satisfaction with their Parenting Satisfaction with their Parenting Total Satisfaction with their Parenting Satisfaction wi					
Total Perceived Control Over Failure .51 (.82) .59 (.90) -2.17-3.50 -1.50-3.50 Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems ≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) <	Total Reflective Functioning (1-7)	4.80 (.37)	4.80 (.36)	4-6	4-6
Mothers' Parenting Behaviors Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 <	Mothers' Attributions				
Positive Parenting (12-60) 53.19 (6.44) 53.29 (6.37) 31-60 32-60 Negative/Inconsistent Parenting (7-35) 14.00 (5.06) 13.82 (5.18) 7-35 7-35 Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 Young Children's Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Total Perceived Control Over Failure	.51 (.82)	.59 (.90)	-2.17-3.50	-1.50-3.50
Negative/Inconsistent Parenting (7-35) $14.00 (5.06)$ $13.82 (5.18)$ $7-35$ $7-35$ Punitive Parenting (5-25) $8.13 (2.70)$ $8.70 (2.90)$ $5-20$ $5-16$ Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) $25.24 (8.01)$ $25.24 (8.09)$ $9-41$ $9-41$ Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) $52.86 (14.58)$ $60.63 (13.97)$ $30-90$ $30-89$ Externalizing Behavior Problems (≤50-100) $48.59 (12.19)$ $53.79 (11.24)$ $30-88$ $34-87$ Young Children's Temperament General Activity Level (7-28) $20.81 (4.74)$ $20.48 (5.16)$ $8-28$ $8-28$ Approach-Withdrawal (7-28) $20.87 (3.66)$ $20.80 (3.65)$ $9-28$ $9-27$ Flexibility-Rigidity (5-20) $14.01 (3.48)$ $14.67 (3.55)$ $5-20$ $5-20$ Mood Quality (7-28) $26.28 (3.09)$ $26.80 (2.59)$ $15-28$ $15-28$ Rhythmicity in Daily Habits (5-20) $15.48 (2.59)$ $15.97 (2.46)$ $7-20$ $9-20$ Young Children's Behavior Problems $42.43 (10.72)$ $43.93 (11.02)$ $29-77$ $29-75$	Mothers' Parenting Behaviors				
Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 Young Children's Behavior Problems 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning Gener	Positive Parenting (12-60)	53.19 (6.44)	53.29 (6.37)	31-60	32-60
Punitive Parenting (5-25) 8.13 (2.70) 8.70 (2.90) 5-20 5-16 Mothers' Satisfaction with their Parenting Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 Young Children's Behavior Problems 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning Gener	Negative/Inconsistent Parenting (7-35)	14.00 (5.06)	13.82 (5.18)	7-35	7-35
Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 Young Children's Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Punitive Parenting (5-25)	8.13 (2.70)	8.70 (2.90)	5-20	5-16
Total Satisfaction (7-42) 25.24 (8.01) 25.24 (8.09) 9-41 9-41 Mothers' Behavior Problems Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) 30-90 30-89 Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 Young Children's Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Mothers' Satisfaction with their Parenting				
Internalizing Behavior Problems (≤50-100) 52.86 (14.58) 60.63 (13.97) $30-90$ $30-89$ Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) $30-88$ $34-87$ Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) $8-28$ $8-28$ Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) $9-28$ $9-27$ Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) $5-20$ $5-20$ Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) $15-28$ $15-28$ Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) $7-20$ $9-20$ Young Children's Behavior Problems Internalizing Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) $29-77$ $29-75$ Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) $28-70$ $28-69$ Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) $42-158$ $62-152$		25.24 (8.01)	25.24 (8.09)	9-41	9-41
Externalizing Behavior Problems (≤50-100) 48.59 (12.19) 53.79 (11.24) 30-88 34-87 Young Children's Temperament General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20 Young Children's Behavior Problems (≤50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Mothers' Behavior Problems				
Young Children's Temperament General Activity Level (7-28) $20.81 (4.74)$ $20.48 (5.16)$ $8-28$ $8-28$ Approach-Withdrawal (7-28) $20.87 (3.66)$ $20.80 (3.65)$ $9-28$ $9-27$ Flexibility-Rigidity (5-20) $14.01 (3.48)$ $14.67 (3.55)$ $5-20$ $5-20$ Mood Quality (7-28) $26.28 (3.09)$ $26.80 (2.59)$ $15-28$ $15-28$ Rhythmicity in Daily Habits (5-20) $15.48 (2.59)$ $15.97 (2.46)$ $7-20$ $9-20$ Young Children's Behavior Problems (≤50-100) $42.43 (10.72)$ $43.93 (11.02)$ $29-77$ $29-75$ Externalizing Behavior Problems (≤50-100) $43.62 (10.20)$ $45.87 (10.49)$ $28-70$ $28-69$ Young Children's Adaptive Functioning General Adaptive Composite (40-160) $100.00 (22.10)$ $98.50 (19.64)$ $42-158$ $62-152$	Internalizing Behavior Problems (≤50-100)	52.86 (14.58)	60.63 (13.97)	30-90	30-89
General Activity Level (7-28) 20.81 (4.74) 20.48 (5.16) 8-28 8-28 Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20	Externalizing Behavior Problems (<50-100)	48.59 (12.19)	53.79 (11.24)	30-88	34-87
Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20	Young Children's Temperament				
Approach-Withdrawal (7-28) 20.87 (3.66) 20.80 (3.65) 9-28 9-27 Flexibility-Rigidity (5-20) 14.01 (3.48) 14.67 (3.55) 5-20 5-20 Mood Quality (7-28) 26.28 (3.09) 26.80 (2.59) 15-28 15-28 Rhythmicity in Daily Habits (5-20) 15.48 (2.59) 15.97 (2.46) 7-20 9-20	General Activity Level (7-28)	20.81 (4.74)	20.48 (5.16)	8-28	8-28
Mood Quality (7-28) $26.28 (3.09)$ $26.80 (2.59)$ $15-28$ Rhythmicity in Daily Habits (5-20) $15.48 (2.59)$ $15.97 (2.46)$ $7-20$ $9-20$ Young Children's Behavior ProblemsInternalizing Behavior Problems (≤50-100) $42.43 (10.72)$ $43.93 (11.02)$ $29-77$ $29-75$ Externalizing Behavior Problems (≤50-100) $43.62 (10.20)$ $45.87 (10.49)$ $28-70$ $28-69$ Young Children's Adaptive FunctioningGeneral Adaptive Composite ($40-160$) $100.00 (22.10)$ $98.50 (19.64)$ $42-158$ $62-152$		20.87 (3.66)	20.80 (3.65)	9-28	9-27
Mood Quality (7-28) $26.28 (3.09)$ $26.80 (2.59)$ $15-28$ Rhythmicity in Daily Habits (5-20) $15.48 (2.59)$ $15.97 (2.46)$ $7-20$ $9-20$ Young Children's Behavior ProblemsInternalizing Behavior Problems (≤50-100) $42.43 (10.72)$ $43.93 (11.02)$ $29-77$ $29-75$ Externalizing Behavior Problems (≤50-100) $43.62 (10.20)$ $45.87 (10.49)$ $28-70$ $28-69$ Young Children's Adaptive FunctioningGeneral Adaptive Composite ($40-160$) $100.00 (22.10)$ $98.50 (19.64)$ $42-158$ $62-152$	Flexibility-Rigidity (5-20)	14.01 (3.48)	14.67 (3.55)	5-20	5-20
Young Children's Behavior Problems Internalizing Behavior Problems (≤50-100) $42.43 (10.72)$ $43.93 (11.02)$ $29-77$ $29-75$ Externalizing Behavior Problems (≤50-100) $43.62 (10.20)$ $45.87 (10.49)$ $28-70$ $28-69$ Young Children's Adaptive Functioning General Adaptive Composite ($40-160$) $100.00 (22.10)$ $98.50 (19.64)$ $42-158$ $62-152$		26.28 (3.09)	26.80 (2.59)	15-28	15-28
Internalizing Behavior Problems (\leq 50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (\leq 50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Rhythmicity in Daily Habits (5-20)	15.48 (2.59)	15.97 (2.46)	7-20	9-20
Internalizing Behavior Problems (\leq 50-100) 42.43 (10.72) 43.93 (11.02) 29-77 29-75 Externalizing Behavior Problems (\leq 50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Young Children's Behavior Problems				
Externalizing Behavior Problems (≤50-100) 43.62 (10.20) 45.87 (10.49) 28-70 28-69 Young Children's Adaptive Functioning General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152		42.43 (10.72)	43.93 (11.02)	29-77	29-75
General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Externalizing Behavior Problems (\leq 50-100)		·	28-70	28-69
General Adaptive Composite (40-160) 100.00 (22.10) 98.50 (19.64) 42-158 62-152	Young Children's Adaptive Functioning	· · · · · · · · · · · · · · · · · · ·			
		100.00 (22.10)	98.50 (19.64)	42-158	62-152
	Self-Care Skills (1-19)	6.48 (3.57)	6.03 (2.73)	1-19	1-15

Table 2. Correlations Among Mothers' Adverse Childhood Experiences, Temperament, Reflective Functioning, Attributions, and Parenting Behaviors for Total and Trauma Samples

	Variables	1	2	3	4	5	6	7	8	9	10	11
1.	Adverse Childhood Experiences	-	.09	19	07	16	.01	27*	.13	15	15	25*
2.	Mothers' General Activity Level (DOTS Temperament)	.19**	-	.04	23	.09	20	.08	.03	09	.01	.21
3.	Mothers' Approach-Withdrawal (DOTS Temperament)	15*	.07	-	.61***	.43***	.05	07	.42***	.31*	13	04
4.	Mothers' Flexibility-Rigidity (DOTS Temperament)	06	21**	.55***	-	.29*	.08	12	.41***	.19	10	27*
5.	Mothers' Mood Quality (DOTS Temperament)	15*	.04	.34***	.26***	-	.32*	.01	.22	.37**	18	18
6.	Mothers' Rhythmicity in Daily Habits (DOTS Temperament)	12	14*	.06	.00	.21**	-	09	.16	.21	34**	28*
7.	Reflective Functioning (PRFQ)	01	01	04	.08	.06	06	-	.06	.10	11	07
8.	Attributions (PAT)	.08	04	.17*	.16*	.09	.15*	.08	-	.33**	12	21
9.	Positive Parenting Behaviors (APQ-PR)	02	.01	.15*	.11	.27***	.06	.02	.28***	-	08	22
10	Negative/Inconsistent Parenting Behaviors (APQ-PR)	04	.11	09	18**	10	28***	04	18**	20**	-	.37**
11	. Punitive Parenting Behaviors (APQ-PR)	.09	.15*	03	14*	13	22**	01	17*	22**	.43***	-

Note. *p<.05, **p<.01, ***p<.001, Total Sample Bolded Below Diagonal, Trauma Sample Above Diagonal

	Variables	12	13	14	15	16	17	18	19	20	21	22	23
1.	Adverse Childhood Experiences	.41***	.36***	03	01	01	.12	.13	.11	.13	.17*	.02	03
2.	Mothers' General Activity Level (DOTS Temperament)	.25***	.32***	27***	.20**	08	30***	10	04	.24***	.24***	06	02
3.	Mothers' Approach-Withdrawal (DOTS Temperament)	28***	13*	.18**	17*	.21**	.16*	.02	.03	18**	24***	.07	.12
4.	Mothers' Flexibility-Rigidity (DOTS Temperament)	28***	20**	.36***	21**	.23***	.43***	.15*	.05	26***	31***	.07	.17*
5.	Mothers' Mood Quality (DOTS Temperament)	43***	27**	.29***	.08	.19**	.02	.33***	.16*	19**	11	.24**	.19**
6.	Mothers' Rhythmicity in Daily Habits (DOTS Temperament)	38***	35***	.28***	04	12	.01	01	.35***	14*	20**	.14	.12
7.	Reflective Functioning (PRFQ)	.10	.07	04	.11	.07	.04	.20**	.04	.01	.08	.00	.03
8.	Attributions (PAT)	07	17*	.14	.13	.22***	.16*	.25***	.17*	06	.02	.13	.05
9.	Positive Parenting Behaviors (APQ-PR)	15*	18**	.30***	.14*	.20**	.15*	.38***	.18*	26***	16*	.50**	.32***
10.	Negative/Inconsistent Parenting Behaviors (APQ-PR)	.32***	.31**	48***	03	15*	20**	28***	30***	.34***	.32***	15	12
11.	Punitive Parenting Behaviors (APQ-PR)	.25***	.74**	41***	.09	01	05	11	14*	.28***	.36***	16	18*

Note. *p<.05, **p<.01, ***p<.001, Total Sample

	Variables	12	13	14	15	16	17	18	19	20	21	22	23
1.	Adverse Childhood Experiences	.10	.12	03	.04	02	.05	.01	.01	.02	06	.24	.25
2.	Mothers' General Activity Level (DOTS Temperament)	.17	.20	23	.19	15	38**	05	.04	.24*	.26*	01	.12
3.	Mothers' Approach-Withdrawal (DOTS Temperament)	40***	24	.06	09	.10	.15	.14	.30*	23	29*	.15	.20
4.	Mothers' Flexibility-Rigidity (DOTS Temperament)	32**	32*	.35**	17	.28*	.37**	.19	.24	32*	38**	.15	.20
5.	Mothers' Mood Quality (DOTS Temperament)	46***	37**	.35**	07	.01	10	.31*	.32**	16	33**	.28	.22
6.	Mothers' Rhythmicity in Daily Habits (DOTS Temperament)	47***	41***	.45***	04	22	.10	.13	.29*	16	31*	.40*	.26*
7.	Reflective Functioning (PRFQ)	.15	.11	.18	.10	01	10	.22	.03	.02	.14	45**	18
8.	Attributions (PAT)	08	17	.08	.15	.28*	.25	.05	.18	11	06	.29	.31*
9.	Positive Parenting Behaviors (APQ-PR)	27*	25*	.30*	.06	.10	.19	.39**	.22	20	26*	.41**	.33**
10.	Negative/Inconsistent Parenting Behaviors (APQ-PR)	.24	.27*	37**	08	17	14	38**	44***	.24	.16	21	14
11.	Punitive Parenting Behaviors (APQ-PR)	.20	.42***	43***	.10	15	21	24	30*	.25**	.42***	27	11

Note. *p<.05, **p<.01, ***p<.001, Trauma Sample

Variables	12	13	14	15	16	17	18	19	20	21	22	23
12. Mothers' Internalizing Behavior Problems (ASR)	-	.72***	58***	.22	.13	27*	13	30*	.51***	.54***	43**	38**
13. Mothers' Externalizing Behavior Problems (ASR)	.74***	-	55***	.10	.01	26*	22	31*	.61***	.49***	30	27*
14. Maternal Role Satisfaction (PSOC)	54***	48***	-	18	.08	.31*	.25	.23	42***	46***	.28	.23
15. Children's General Activity Level (DOTS Temperament)	.14*	.07	16*	-	.24	12	.20	.00	.20	.53***	41**	08
16. Children's Approach- Withdrawal (DOTS	01	.01	.15*	.23***	-	.51***	.38***	.09	30***	.03	.21*	08
Temperament) 17. Children's Flexibility-Rigidity (DOTS Temperament)	17*	09	.32***	14*	.51***	-	.24***	.16*	41***	25***	.16	.14
18. Children's Mood Quality (DOTS Temperament)	03	12	.28***	.26***	.38***	.24***	-	.36***	23***	.04	.07	.29*
19. Children's Rhythmicity in Daily Habits (DOTS Temperament)	13	17*	.21**	.08	.09	.16*	.36***	-	36**	28*	.35*	.35**
20. Children's Internalizing Behavior Problems (CBCL)	.48***	.51***	39**	.11	30***	41***	23***	22***	-	.65***	32***	20
21. Children's Externalizing Behavior Problems (CBCL)	.47***	.52***	41***	.44***	.03	25***	.04	06	.65***	-	21*	19
22. Children's Overall Adaptive Functioning (ABAS-II)	17*	16	.25**	09	.21*	.16	.07	.21*	32***	21*	-	.76***
23. Children's Self-Care Skills (ABAS-II)	23**	17*	.16*	07	.11	.12	.05	.18*	28***	20**	.82***	-

Note. *p<.05, **p<.01, ***p<.001, Total Sample Bolded Below Diagonal, Trauma Sample Above Diagonal

 Table 3. Mediational Regression Analyses for Total Sample

Regression/Variables	β	t	p
Mediator: Attributions			
Approach-Withdrawal and Positive Parenting Behavior	ors: $F(1,201)$	$=4.63, p<.04, R^2=$	=.02
Approach-Withdrawal	.15	2.15	.04*
Approach-Withdrawal and Attributions: $F(1,204)=5.7$	$73, p < .02, R^2$	=.03	
Approach-Withdrawal	.17	2.40	.02*
Attributions and Positive Parenting Behaviors: $F(1,20)$	(2)=17.50, p	$<.001, R^2 = .08$	
Attributions	.28	4.18	.001***
Approach-Withdrawal, Attributions, and Positive Pare	enting Behav	viors: $F(2,194)=9$.	$94, p < .001, R^2 = .09$
Approach-Withdrawal	.12	1.69	.09
Attributions	.26	3.79	.001***
<i>Note.</i> *p<.05, **p<.01, ***p<.001			

137

Table 4. Mediational Regression Analyses for Trauma Sample

Regression/Variables	β	t	p	
Mediator: Attributions				
Approach-Withdrawal and Positive Parenting Beha	viors: <i>F</i> (1,61)=	$=6.52, p<.02, R^2=$	10	
Approach-Withdrawal	.31	2.60	.02*	
Approach-Withdrawal and Attributions: $F(1,58)=1$	2.22, <i>p</i> <.002, <i>R</i>	$R^2 = .17$		
Approach-Withdrawal	.42	3.50	.002**	
Attributions and Positive Parenting Behaviors: $F(1)$,60)=7.29, <i>p</i> <.0	$01, R^2 = .11$		
Attributions	.33	2.79	.01**	
Approach-Withdrawal, Attributions, and Positive F	Parenting Behav	viors: $F(2,57)=5.0$	$3, p < .01, R^2 = .15$	
Approach-Withdrawal	.18	1.40	.18	
Attributions	.27	2.04	.05*	

Table 5. Hierarchical Regression Analyses for Young Children's Temperament (General Activity Level) for Total and Trauma Samples

Total Sample			Trauma Sample				
Variables	В	SE B	β	I	В	SE B	β
Block 1. $F(9,140)=2.33$, $p<.02$, $R^2=.13$				Block 1. $F(9,36)$ =.65, p <.80, R^2 =.14			
General Activity Level	.18	.09	.18*	.2	23	.19	.22
Approach-Withdrawal	29	.14	22*	.1	15	.42	.09
Flexibility-Rigidity	.01	.15	.01		10	.38	06
Mood Quality	.24	.11	.21*		15	.24	12
Rhythmicity in Daily Habits	.02	.14	.01	.1	12	.34	.07
Adverse Childhood Experiences	22	.17	12).)7	.58	.02
Internalizing Problems	.03	.05	.10	0.)8	.11	.18
Externalizing Problems	04	.05	11		11	.13	17
Maternal Role Satisfaction	.09	.06	.16	.1	13	.15	.18
Block 2. $F(11,138)=2.29$, $p<.20$, $R^2=.16$				Block 2. $F(11,34)=1.38$, $p<.30$, $R^2=.20$	0		
General Activity Level	.19	.09	.19*	.2	22	.19	.22
Approach-Withdrawal	30	.14	23*		04	.43	02
Flexibility-Rigidity	01	.15	01		14	.38	10
Mood Quality	.21	.11	.19*		14	.24	12
Rhythmicity in Daily Habits	03	.14	02).)1	.35	.01
Adverse Childhood Experiences	25	.17	13		06	.59	02
Internalizing Problems	.02	.05	.05	0.)3	.11	.06
Externalizing Problems	03	.05	08	(09	.13	15
Maternal Role Satisfaction	.10	.06	.16	.1	17	.16	.24
Reflective Functioning	.89	1.05	.07	.3	34	2.97	.02
Attributions	.90	.48	.15	1.	97	1.27	.29
Block 3. $F(14,135)=1.14$, $p<.40$, $R^2=.18$				Block 3. $F(14,31)=.36$, $p<.80$, $R^2=.23$			
General Activity Level	.19	.09	.19*	.2	25	.20	.25
Approach-Withdrawal	31	.15	23*	(06	.45	04
Flexibility-Rigidity	.01	.15	.01	(06	.42	04
Mood Quality	.20	.11	.18	:	19	.26	16

Variables	В	SE B	β	В	SE B	β
Rhythmicity in Daily Habits	03	.15	02	02	.40	01
Adverse Childhood Experiences	30	.18	16	02	.66	01
Internalizing Problems	.02	.05	.06	.02	.12	.04
Externalizing Problems	03	.05	08	06	.15	10
Maternal Role Satisfaction	.12	.07	.20	.22	.18	.31
Reflective Functioning	.10	1.07	.08	17	3.20	01
Attributions	.81	.50	.14	1.71	1.42	.25
Positive Parenting Behaviors	.07	.07	.09	.15	.17	.18
Negative/Inconsistent Parenting Behaviors	12	.11	12	11	.31	08
Punitive Parenting Behaviors	.21	.18	.12	12	.43	01

Table 6. Hierarchical Regression Analyses for Young Children's Temperament (Approach-Withdrawal) for Total and Trauma Samples

Total Sam	ple			Trauma Sample				
Variables	В	SE B	β		В	SE B	β	
Block 1. $F(9,140)=2.18$, $p<.03$, $R^2=.12$			-	Block 1. $F(9,36)=1.37$, $p<.30$, $R^2=$	=.25		-	
General Activity Level	08	.07	11		16	.13	22	
Approach-Withdrawal	.12	.11	.11		.10	.28	.09	
Flexibility-Rigidity	.11	.12	.11		.15	.25	.14	
Mood Quality	.14	.08	.16		.05	.16	.06	
Rhythmicity in Daily Habits	17	.11	14		33	.23	26	
Adverse Childhood Experiences	03	.14	02		.26	.38	.12	
Internalizing Problems	.02	.04	.08		.11	.07	.34	
Externalizing Problems	.03	.04	.09		.01	.09	.02	
Maternal Role Satisfaction	06	.05	14		16	.10	32	
Block 2. $F(11,138)=3.47$, $p<.04$, $R^2=.17$				Block 2. F(11,34)=1.89, p<.20, R ²	2=.33			
General Activity Level	08	.07	10		16	.12	22	
Approach-Withdrawal	.09	.11	.08		.01	.28	.01	
Flexibility-Rigidity	.11	.12	.10		.07	.25	.07	
Mood Quality	.13	.08	.15		.07	.16	.08	
Rhythmicity in Daily Habits	22	.11	18		43	.23	33	
Adverse Childhood Experiences	06	.13	04		.08	.38	.04	
Internalizing Problems	.01	.03	.04		.10	.07	.30	
Externalizing Problems	.04	.04	.13		.04	.09	.09	
Maternal Role Satisfaction	05	.05	12		18	.10	35	
Reflective Functioning	04	.81	01		-2.49	1.94	21	
Attributions	.97	.37	.22**		1.48	.83	.30	
Block 3. $F(14,135)=2.78$, $p<.05$, $R^2=.21$				Block 3. F(14,31)=1.15, p<.40, R ²	=.40			
General Activity Level	09	.07	11		14	.12	19	
Approach-Withdrawal	.10	.11	.10		.06	.29	.05	
Flexibility-Rigidity	.12	.11	.11		.06	.26	.06	
Mood Quality	.13	.08	.15		.08	.16	.09	

Variables	В	SE B	β	В	SE B	β
Rhythmicity in Daily Habits	25	.11	20*	59	.25	46*
Adverse Childhood Experiences	10	.13	07	01	.42	01
Internalizing Problems	.02	.03	.06	.08	.07	.26
Externalizing Problems	.05	.04	.15	.06	.09	.13
Maternal Role Satisfaction	.01	.06	.02	09	.11	18
Reflective Functioning	16	.80	02	-3.29	2.02	28
Attributions	.82	.38	.18*	1.69	.90	.34
Positive Parenting Behaviors	.07	.05	.12	.04	.11	.07
Negative/Inconsistent Parenting Behaviors	19	.08	24*	31	.20	31
Punitive Parenting Behaviors	.03	.13	.02	11	.27	08

Table 7. Hierarchical Regression Analyses for Young Children's Temperament (Flexibility-Rigidity) for Total and Trauma Samples

Total Samp	le			Trauma Sample			
Variables	В	SE B	β		В	SE B	β
Block 1. $F(9,138)=5.98$, $p<.001$, $R^2=.28$				Block 1. $F(9,36)=2.58$, $p<.03$, $R^2=.$	39		
General Activity Level	20	.06	29***		24	.11	36*
Approach-Withdrawal	03	.09	04		.12	.23	.12
Flexibility-Rigidity	.25	.10	.26*		.04	.21	.04
Mood Quality	06	.07	08		26	.13	32
Rhythmicity in Daily Habits	04	.09	04		01	.19	01
Adverse Childhood Experiences	.19	.11	.15		.07	.32	.04
Internalizing Problems	03	.03	14		.01	.06	.02
Externalizing Problems	.07	.03	.25*		.05	.07	.12
Maternal Role Satisfaction	09	.04	21*		20	.08	44*
Block 2. $F(11,136)=1.11$, $p<.40$, $R^2=.29$				Block 2. $F(11,34)=.72$, $p<.50$, $R^2=.$	42		
General Activity Level	20	.06	28***		24	.11	36*
Approach-Withdrawal	05	.09	05		.08	.24	.08
Flexibility-Rigidity	.25	.10	.27**		01	.22	01
Mood Quality	06	.07	08		25	.13	31
Rhythmicity in Daily Habits	06	.09	06		06	.20	05
Adverse Childhood Experiences	.18	.11	.14		02	.33	01
Internalizing Problems	04	.03	15		.01	.06	.01
Externalizing Problems	.07	.03	.28*		.06	.07	.16
Maternal Role Satisfaction	09	.04	21*		22	.09	47*
Reflective Functioning	21	.68	02		-1.49	1.67	14
Attributions	.48	.32	.11		.74	.72	.16
Block 3. $F(14,133)=2.78$, $p<.05$, $R^2=.33$				Block 3. $F(14,31)=1.10$, $p<.40$, $R^2=$	=.47		
General Activity Level	19	.06	28***		21	.11	32
Approach-Withdrawal	08	.09	08		.01	.25	.01
Flexibility-Rigidity	.28	.10	.30**		.11	.23	.11
Mood Quality	10	.07	12		31	.14	40*

Variables	В	SE B	β	В	SE B	β
Rhythmicity in Daily Habits	05	.09	05	.03	.22	.03
Adverse Childhood Experiences	.15	.11	.12	.12	.36	.06
Internalizing Problems	04	.03	16	.01	.06	.01
Externalizing Problems	08	.03	.28**	.08	.08	.20
Maternal Role Satisfaction	07	.05	18	22	.10	46*
Reflective Functioning	09	.68	01	-1.49	1.74	14
Attributions	.34	.32	.08	.25	.77	.06
Positive Parenting Behaviors	.10	.04	.19*	.17	.09	.30
Negative/Inconsistent Parenting Behaviors	06	.07	08	.08	.17	.09
Punitive Parenting Behaviors	.16	.11	.13	.10	.23	.08

Table 8. Hierarchical Regression Analyses for Young Children's Temperament (Mood Quality) for Total and Trauma Samples

Total Sample Trauma Sample Variables В SE B SE B ß В Block 1. F(9,136)=4.52, p<.001, $R^2=.23$ Block 1. F(9,36)=1.34, p<.30, $R^2=.25$ General Activity Level -.05 .05 -.09 -.09 .08 -.20 Approach-Withdrawal -.12 .07 -.16 .17 .17 .24 Flexibility-Rigidity .09 .08 .13 -.11 .15 -.17 **Mood Quality** .38*** .23 .05 .32 .17 .10 Rhythmicity in Daily Habits .07 -.09 .01 -.08 .00 .14 Adverse Childhood Experiences .10 .09 .10 .19 .23 .14 **Internalizing Problems** .02 .23 .27 .04 .05 .04 **Externalizing Problems** .02 -.18 -.08 -.31 -.04 .05 Maternal Role Satisfaction -.07 .03 -.22* -.05 .06 -.15 Block 2. F(11,134)=2.15, p<.20, $R^2=.25$ Block 2. F(11,34)=1.98, p<.20, $R^2=.33$ General Activity Level -.05 -.09 -.09 -.20 .05 .08 Approach-Withdrawal .08 .19 -.12 -.16 .17 .26 Flexibility-Rigidity .12 -.09 .08 .08 -.06 .15 **Mood Quality** .22 .35*** .30 .05 .09 .16 Rhythmicity in Daily Habits -.10 .08 -.12 .04 .14 .05 Adverse Childhood Experiences -.09 .09 .09 .30 .23 .22 **Internalizing Problems** .02 .19 .05 .24 .04 .04 **Externalizing Problems** .02 -.15 -.10 .05 -.38 -.03 Maternal Role Satisfaction -.07 .03 -.22* -.02 .06 -.06 Reflective Functioning .76 .55 .11 2.21 1.18 .31 Attributions .25 .34 .11 -.60 .51 -.20 Block 3. F(14,131)=7.42, p<.001, $R^2=.36$ Block 3. F(14,31)=4.27, p<.02, $R^2=.53$ General Activity Level -.09 -.12 -.05 .05 -.05 .07 Approach-Withdrawal -.17 .13 -.12 .07 .15 .18 Flexibility-Rigidity .11 .08 .15 .07 .14 .11 **Mood Quality** .05 .30*** .19 .09 .09 .17

Variables	В	SE B	β	В	SE	β
Rhythmicity in Daily Habits	10	.07	11	.06	.14	.08
Adverse Childhood Experiences	.06	.09	.06	.43	.23	.31
Internalizing Problems	.03	.02	.18	.04	.04	.22
Externalizing Problems	03	.02	14	08	.05	29
Maternal Role Satisfaction	02	.04	06	.02	.06	.06
Reflective Functioning	.73	.52	.10	1.88	1.08	.26
Attributions	.11	.24	.03	-1.04	.48	35*
Positive Parenting Behaviors	.12	.03	.30***	.20	.06	.54**
Negative/Inconsistent Parenting Behaviors	12	.05	21*	05	.11	08
Punitive Parenting Behaviors	.07	.09	.08	.07	.15	.09

Table 9. Hierarchical Regression Analyses for Young Children's Temperament (Rhythmicity in Daily Habits) for Total and Trauma Samples

Total Samp	ole			Trauma Sample		
Variables	В	SE B	β	В	SE B	β
Block 1. $F(9,139)=4.29$, $p<.001$, $R^2=.22$				Block 1. $F(9,36)=1.56$, $p<.20$, $R^2=.28$		
General Activity Level	01	.05	02	.01	.07	.02
Approach-Withdrawal	05	.07	06	.14	.16	.20
Flexibility-Rigidity	.01	.08	.02	03	.14	04
Mood Quality	.06	.05	.09	.03	.09	.06
Rhythmicity in Daily Habits	.27	.08	.31***	.14	.13	.19
Adverse Childhood Experiences	.19	.09	.18*	.07	.22	.05
Internalizing Problems	.01	.02	.01	18	.04	09
Externalizing Problems	03	.02	12	06	.05	22
Maternal Role Satisfaction	03	.03	10	03	.06	09
Block 2. $F(11,137)=.38$, $p<.70$, $R^2=.22$				Block 2. $F(11,34)=.77$, $p<.50$, $R^2=.31$		
General Activity Level	01	.05	02	.01	.07	.02
Approach-Withdrawal	05	07	06	.16	.17	.23
Flexibility-Rigidity	.01	.08	.01	.01	.15	.01
Mood Quality	.05	.06	.08	.03	.09	.05
Rhythmicity in Daily Habits	.27	.08	.31***	.18	.13	.24
Adverse Childhood Experiences	.18	.09	.18*	.14	.23	.10
Internalizing Problems	01	.02	01	02	.04	09
Externalizing Problems	02	.02	11	07	.05	26
Maternal Role Satisfaction	03	.03	11	02	.06	05
Reflective Functioning	.37	.56	.05	1.16	1.15	17
Attributions	.12	.26	.04	48	.49	.17
Block 3. $F(14,134)=1.68$, $p<.20$, $R^2=.25$				Block 3. $F(14,31)=1.02$, $p<.40$, $R^2=.37$		
General Activity Level	01	.05	01	.03	.07	.06
Approach-Withdrawal	06	.08	08	.16	.17	.24
Flexibility-Rigidity	.03	.08	.04	.02	.16	.04
Mood Quality	.03	.06	.05	01	.10	01

Variables	В	SE B	β	В	SE	β
Rhythmicity in Daily Habits	.27	.08	.31***	.14	.15	.19
Adverse Childhood Experiences	.17	.09	.17	.08	.25	.06
Internalizing Problems	01	.02	02	03	.04	16
Externalizing Problems	02	.02	10	04	.06	15
Maternal Role Satisfaction	02	.04	07	.03	.07	.09
Reflective Functioning	.43	.56	.06	.63	1.20	.09
Attributions	.02	.27	.01	57	.53	20
Positive Parenting Behaviors	.07	.04	.17*	.07	.07	.20
Negative/Inconsistent Parenting Behaviors	03	.06	06	08	.12	13
Punitive Parenting Behaviors	.08	.09	.08	13	.16	17

Table 10. Hierarchical Regression Analyses for Young Children's Internalizing Problems for Total and Trauma Samples

Total Sample			Trauma Sample			
Variables	В	SE B	β	В	SE B	β
Block 1. $F(9,143)=5.66$, $p<.001$, $R^2=.26$				Block 1. $F(9,37)=1.90$, $p<.09$, $R^2=.32$		
General Activity Level	.16	.19	.07	.27	.31	.14
Approach-Withdrawal	.06	.29	.02	27	.64	10
Flexibility-Rigidity	44	.31	14	26	.62	09
Mood Quality	.13	.21	.05	.57	.39	.26
Rhythmicity in Daily Habits	.18	.29	.05	.38	.52	.12
Adverse Childhood Experiences	36	.34	09	52	.79	09
Internalizing Problems	.14	.09	.19	.05	.17	.06
Externalizing Problems	.24	.09	.28*	.35	.21	.31
Maternal Role Satisfaction	.14	.13	.11	.34	.25	.26
Block 2. $F(11,141)=.21$, $p<.90$, $R^2=.27$				Block 2. $F(11,35)=.01$, $p<.999$, $R^2=.32$		
General Activity Level	.16	.19	.07	.27	.32	.14
Approach-Withdrawal	.02	.29	.01	29	.69	10
Flexibility-Rigidity	42	.31	14	27	.64	10
Mood Quality	.14	.22	.05	.57	.40	.26
Rhythmicity in Daily Habits	.16	.29	.05	.38	.55	.12
Adverse Childhood Experiences	38	.35	09	56	.89	10
Internalizing Problems	.14	.09	.19	.05	.19	.06
Externalizing Problems	.25	.09	.29**	.36	.22	.31
Maternal Role Satisfaction	.15	.13	.11	.33	.27	.25
Reflective Functioning	97	2.14	03	52	4.88	02
Attributions	.50	.99	.04	.17	2.14	.01
Block 3. $F(14,138)=4.21$, $p<.01$, $R^2=.33$				Block 3. $F(14,32)=1.77$, $p<.20$, $R^2=.41$		
General Activity Level	.19	.18	.09	.16	.31	.08
Approach-Withdrawal	.03	.29	.01	15	.68	05
Flexibility-Rigidity	54	.31	18	50	.66	18
Mood Quality	.25	.22	.10	.86	.41	.39*
Rhythmicity in Daily Habits	.14	.29	.04	.05	.57	.02

Variables	В	SE B	β	В	SE	β
Adverse Childhood Experiences	42	.35	10	61	.99	11
Internalizing Problems	.16	.09	.21	.10	.19	.12
Externalizing Problems	.22	.09	.25*	.20	.24	.17
Maternal Role Satisfaction	06	.14	05	.30	.29	.23
Reflective Functioning	54	2.09	02	1.16	4.91	.04
Attributions	1.39	.99	.11	1.87	2.23	.15
Positive Parenting Behaviors	41	.13	25**	55	.28	35
Negative/Inconsistent Parenting Behaviors	.19	.21	.08	55	.47	21
Punitive Parenting Behaviors	.38	.35	.10	.61	.68	.17

Table 11. Hierarchical Regression Analyses for Young Children's Externalizing Problems for Total and Trauma Samples

Total Samp	Trauma Sample						
Variables	В	SE B	β		В	SE B	β
Block 1. $F(9,143)=7.58$, $p<.001$, $R^2=.32$				Block 1. $F(9,37)=2.08$, $p<.06$, $R^2=.08$.34		
General Activity Level	.06	.17	.03		.12	.31	.06
Approach-Withdrawal	31	.26	11		29	.64	10
Flexibility-Rigidity	36	.28	13		44	.62	16
Mood Quality	.30	.19	.13		15	.39	07
Rhythmicity in Daily Habits	02	.26	01		02	.52	01
Adverse Childhood Experiences	08	.31	02		-1.01	.79	18
Internalizing Problems	.03	.08	.04		.10	.17	.12
Externalizing Problems	.30	.08	.37***		.18	.21	.15
Maternal Role Satisfaction	.23	.11	.19*		.31	.25	.23
Block 2. $F(11,141)=2.98$, $p<.06$, $R^2=.35$				Block 2. $F(11,35)=.59$, $p<.60$, $R^2=.$.36		
General Activity Level	.07	.17	.03		.11	.31	.06
Approach-Withdrawal	39	.26	14		49	.68	17
Flexibility-Rigidity	37	.28	13		48	.63	17
Mood Quality	.29	.19	.12		15	.39	07
Rhythmicity in Daily Habits	11	.26	03		14	.54	04
Adverse Childhood Experiences	16	.31	04		-1.14	.88	20
Internalizing Problems	.01	.08	.01		.04	.18	.04
Externalizing Problems	.34	.08	.41***		.19	.22	.17
Maternal Role Satisfaction	.25	.11	.20*		.36	.26	.27
Reflective Functioning	41	1.90	02		.90	4.79	.03
Attributions	2.14	.88	.18*		2.06	2.11	.16
Block 3. F(14,138)=4.57, p<.005, R ² =.41				Block 3. $F(14,32)=.63$, $p<.70$, $R^2=.$.39		
General Activity Level	.12	.16	.06		.06	.32	.03
Approach-Withdrawal	46	.25	17		47	.70	16
Flexibility-Rigidity	39	.27	14		50	.68	18
Mood Quality	.29	.19	.12		.01	.42	.01
Rhythmicity in Daily Habits	06	.26	02		31	.59	10

Variables	В	SE B	β	В	SE	β
Adverse Childhood Experiences	19	.31	05	93	1.02	17
Internalizing Problems	.01	.08	.01	.08	.19	.09
Externalizing Problems	.29	.08	.36***	.07	.24	.06
Maternal Role Satisfaction	.03	.13	.02	.34	.30	.25
Reflective Functioning	.41	1.84	.02	2.30	5.06	.22
Attributions	2.75	.88	.23**	2.80	2.31	.08
Positive Parenting Behaviors	17	.12	11	21	.29	13
Negative/Inconsistent Parenting Behaviors	.22	.19	.10	39	.50	15
Punitive Parenting Behaviors	.85	.31	.23**	.71	.70	.20

Table 12. Hierarchical Regression Analyses for Young Children's Adaptive Functioning (General Adaptive Composite) for Total and Trauma Samples

Total Sample Trauma Sample В SE B Variables ß ß SE B В Block 1. F(9,97)=1.82, p<.08, $R^2=.15$ Block 1. F(9,24)=2.22, p<.06, $R^2=.46$ General Activity Level -.71 .48 -.17 .02 .71 .01 Approach-Withdrawal .18 .73 .03 .25 1.20 .05 Flexibility-Rigidity -.35 .73 -.06 .11 1.17 .02 **Mood Quality** .53 .28* .18 1.33 .69 .76 Rhythmicity in Daily Habits .07 1.48 .28 .47 .71 .97 Adverse Childhood Experiences .07 .35* .91 3.12 1.40 .56 **Internalizing Problems** .02 -.32 .03 .24 .36 -.21 **Externalizing Problems** .10 .23 .06 -.19 .39 -.10 Maternal Role Satisfaction -.18 .34 -.46 -.15 .53 -.06 Block 2. F(11.95)=.84, p<.50, $R^2=.16$ Block 2. F(11,22)=2.40, p<.20, $R^2=.55$ General Activity Level .68 -.67 .49 -.16 -.12 -.03 .02 Approach-Withdrawal -.09 .74 .02 1.19 .01 Flexibility-Rigidity .73 -.07 -.74 1.18 -.15 -.36 **Mood Quality** .27* .69 .72 .18 1.32 .53 Rhythmicity in Daily Habits .27 .72 .93 .36 .05 1.43 Adverse Childhood Experiences .14 .50 .93 .06 1.26 1.57 **Internalizing Problems** .25 -.41 .36 -.27 -.01 -.01 **Externalizing Problems** .23 .16 .41 .08 .09 .14 .34 -.18 -.43 -.17 Maternal Role Satisfaction -.48 .54 Reflective Functioning 5.38 .06 -20.7910.80 -.37 3.42 Attributions 2.52 2.42 .10 5.74 3.91 .25 Block 3. F(14,19)=.49, p<.70, $R^2=.59$ Block 3. F(14,92)=5.93, p<.002, $R^2=.30$ General Activity Level -.65 .45 -.15 .09 .75 .03 -.07 Approach-Withdrawal -.41 .70 -.26 1.29 -.05 Flexibility-Rigidity .30 .70 .05 -.20 1.36 -.04 **Mood Quality** .39 .76 .53 .16 .84 .10

Variables	В	SE B	В	В	SE	β
Rhythmicity in Daily Habits	.65	.70	.10	1.47	1.11	.28
Adverse Childhood Experiences	.57	.89	.07	1.32	1.87	.15
Internalizing Problems	12	.23	08	53	.38	35
Externalizing Problems	.24	.22	.14	.22	.44	.11
Maternal Role Satisfaction	09	.37	04	08	.66	03
Reflective Functioning	3.08	5.05	.06	-19.16	11.63	34
Attributions	.21	2.32	.01	4.31	4.60	.19
Positive Parenting Behaviors	1.37	.33	.42***	.66	.60	.21
Negative/Inconsistent Parenting Behaviors	.16	.54	.04	05	.99	01
Punitive Parenting Behaviors	74	.85	10	0.57	1.20	09

Table 13. Hierarchical Regression Analyses for Young Children's Adaptive Functioning (Self-Care Skills) for Total and Trauma Samples

Total Sample				Trauma Sample		
Variables	В	SE B	β	В	SE B	β
Block 1. $F(9,137)=1.33$, $p<.30$, $R^2=.08$				Block 1. $F(9,37)=2.74$, $p<.02$, $R^2=.40$		
General Activity Level	10	.06	02	.08	.07	.17
Approach-Withdrawal	.01	.09	.01	.10	.15	.15
Flexibility-Rigidity	.03	.10	.04	.00.	.15	.00
Mood Quality	.11	.07	.16	.04	.09	.07
Rhythmicity in Daily Habits	.06	.09	.06	.05	.12	.07
Adverse Childhood Experiences	.16	.11	.14	.50	.19	.36**
Internalizing Problems	03	03	14	08	.04	36
Externalizing Problems	.02	.03	.07	05	.05	18
Maternal Role Satisfaction	01	.04	03	.01	.06	.01
Block 2. $F(11,135)=.46$, $p<.70$, $R^2=.09$				Block 2. $F(11,35)=.75$, $p<.50$, $R^2=.42$		
General Activity Level	01	.06	01	.08	.07	.16
Approach-Withdrawal	.02	.09	.02	.07	.16	.10
Flexibility-Rigidity	.02	.10	.02	.01	.15	.01
Mood Quality	.11	.07	.15	.04	.09	.07
Rhythmicity in Daily Habits	.05	.09	.05	.03	.13	.04
Adverse Childhood Experiences	.16	.11	.14	.53	.21	.38*
Internalizing Problems	03	.03	16	09	.04	44*
Externalizing Problems	.02	.03	.07	06	.05	20
Maternal Role Satisfaction	02	.04	04	.03	.06	.08
Reflective Functioning	.65	.68	.08	.94	1.12	.20
Attributions	.03	.32	.01	.31	.49	.13
Block 3. $F(14,132)=5.18$, $p<.003$, $R^2=.18$				Block 3. $F(14,32)=3.49$, $p<.03$, $R^2=.57$		
General Activity Level	01	.06	01	.11	.07	.22
Approach-Withdrawal	02	.09	03	01	.15	01
Flexibility-Rigidity	.08	.10	.10	.14	.14	.21
Mood Quality	.03	.07	.04	03	.09	05

Variables	В	SE B	β	В	SE	β
Rhythmicity in Daily Habits	.11	.09	.11	.11	.12	.14***
Adverse Childhood Experiences	.22	.11	.19*	.74	.21	.54*
Internalizing Problems	05	.03	24	09	.04	41
Externalizing Problems	.02	.03	.10	05	.05	18
Maternal Role Satisfaction	.01	.05	.01	.02	.06	.07
Reflective Functioning	.62	.66	.08	1.02	1.06	07
Attributions	26	.31	07	20	.48	.14
Positive Parenting Behaviors	.16	.04	.33***	.18	.06	.46**
Negative/Inconsistent Parenting Behaviors	.11	.07	.17	.07	.10	.11
Punitive Parenting Behaviors	08	.11	07	.18	.15	.20

APPENDIX P: IRB HUMAN SUBJECTS APPROVAL LETTER



University of Central Florida Institutional Review Board Office of Research & Commercialization 12201 Research Parkway, Suite 501

Orlando, Florida 32826-3246

Telephone: 407-823-2901 or 407-882-2276 www.research.ucf.edu/compliance/irb.html

Approval of Exempt Human Research

From: UCF Institutional Review Board #1

FWA00000351, IRB00001138

To: Kimberly D. Renk and Co-PI: Ellen Kolomeyer

Date: July 22, 2015

Dear Researcher:

On 07/22/2015, the IRB approved the following activity as human participant research that is exempt from

regulation:

Type of Review: Exempt Determination

Project Title: How Are Enduring Maternal Characteristics Related to Mothers'

Perceptions of Their Young Children?

Investigator: Kimberly D Renk IRB Number: SBE-15-11440

Funding Agency: Grant Title:

Research ID: N/A

This determination applies only to the activities described in the IRB submission and does not apply should any changes be made. If changes are made and there are questions about whether these changes affect the exempt status of the human research, please contact the IRB. When you have completed your research, please submit a Study Closure request in iRIS so that IRB records will be accurate.

In the conduct of this research, you are responsible to follow the requirements of the Investigator Manual.

On behalf of Sophia Dziegielewski, Ph.D., L.C.S.W., UCF IRB Chair, this letter is signed by:

Signature applied by Joanne Muratori on 07/22/2015 11:49:06 AM EDT

IRB manager

Grame muratori

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