Parental Stress, Socioeconomic Status, Satisfaction with Services, and Family Quality of Life among Parents of Children Receiving Special Education Services

Heather F. Lundy

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The Dissertation Advisory Committee and the student’s Department Chair, as representatives of the faculty, certify that this dissertation has met all standards of excellence and scholarship as determined by the faculty. The Dean of the College of Education concurs.

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ABSTRACT

PARENTAL STRESS, SOCIOECONOMIC STATUS, SATISFACTION WITH SERVICES, AND FAMILY QUALITY OF LIFE AMONG PARENTS OF CHILDREN RECEIVING SPECIAL EDUCATION SERVICES

by

Heather F. Lundy

Family quality of life (FQOL) refers to the degree to which families of individuals with disabilities are able to meet their basic needs, enjoy time together, and pursue leisure interests and activities (Park et al., 2003). Researchers have identified barriers that families of individuals with disabilities encounter as they pursue a life of quality including elevated parental stress (Hauser-Cram, Warfield, Shonkoff, & Kraus, 2001), low socioeconomic status (SES) (Park, Turnbull, & Turnbull, 2002) and inadequate social service support (Soresi, Nota, & Ferrari, 2007). This study utilized data collected from a sample of parents \( N = 389 \) of children receiving special education services from preschool through fifth grade to determine parental stress levels, satisfaction with social service supports and FQOL. Instruments included a demographic questionnaire, Parental Stress Scale (PSS; Berry & Jones, 1995), Client Satisfaction Questionnaire-8 (CSQ-8; Larsen, Attkisson, Hargreaves, & Nguyen, 1979) and Family Quality of Life Survey (FQOLS; Turnbull et al., 2004). A MANCOVA analysis failed to reflect significant differences between parental stress levels and FQOL based on child disability type. Point biserial correlations did not reveal significant relationships between children’s free or reduced lunch (FRL) status, parental stress, satisfaction with social services, and FQOL. Initial linear regression analysis indicated that parental stress was a significant predictor of FQOL \( p < .001 \) while satisfaction with social services approached significance \( p = .057 \). However, a subsequent linear regression analysis that included the interaction between satisfaction with social services and parental stress failed to support a
moderation effect between satisfaction with social services and parental stress in the prediction of FQOL ($p = .142$). The examination of parental stress and FQOL within a school-based setting was a unique contribution to the literature that focuses primarily on FQOL and families of children with disabilities within clinical, medical and mental health settings. Limitations of this study, future research directions, and implications for school-based mental health providers are presented.
PARENTAL STRESS, SOCIOECONOMIC STATUS, SATISFACTION WITH SERVICES, AND FAMILY QUALITY OF LIFE AMONG PARENTS OF CHILDREN RECEIVING SPECIAL EDUCATION SERVICES

by

Heather F. Lundy

A Dissertation

Presented in Partial Fulfillment of Requirements for the Degree of Doctor in Philosophy in School Psychology in the Department of Counseling and Psychological Services in the College of Education Georgia State University

Atlanta, GA
2011
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I would like to dedicate this dissertation to my mother, Linda McLane Floyd. Mom, you have first hand knowledge of the challenges of raising a child with a disability and you raised Lynsey and I with very little assistance from others. Yet due to your love for us, strength, and determination you established and maintained a high quality of life for our family. Mom, you are my personal hero, and without you I would not be the person I am today. Thank you for all of the sacrifices you have made to ensure Lynsey and I have had the opportunities to reach our goals. I love you.

To my husband Mark, thank you for your dedication to my education and your unwavering belief in my ability to succeed. You believed in me even when I didn’t believe in myself, and your belief drove me to persevere. Thank you for the many nights and weekends you assumed sole responsibility for our daughter, Madden, as I worked toward completion of this degree. You are a wonderful husband and daddy and I love you more than you will ever know.

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CHAPTER 1
ADVOCATING FOR FAMILIES OF CHILDREN WITH DISABILITIES AND
FAMILY QUALITY OF LIFE: AN ECOLOGICAL SYSTEMS APPROACH

Over the past several decades, researchers have acknowledged the importance of examining the quality of life (QOL) of individuals with disabilities and their families. Family quality of life (FQOL; Park et al., 2003) refers to the degree to which families of individuals with disabilities are able to meet their basic needs, enjoy time together, and pursue interests and activities that are important to them. Today, it is a commonly held belief that all individuals and their families, regardless of disability status, have a right to a life of quality. Parents of children with disabilities have reported positive contributions that their child has on their QOL such as fostering the development of patience, love, compassion, and tolerance (Kausar, Jevne, & Sobsey, 2003), improved relations with family members (Kausar et al., 2003), and positive changes in spiritual values (Trute, Heibert-Murphy, & Levine, 2007).

Researchers also have suggested that the responsibilities of caring for a child with a disability may negatively impact parents’ mental health (Dellve, Samuelsson, Tallborn, Fasth, & Hallberg, 2006; Glenn, Cunningham, Poole, Reeves, & Weindling, 2009; Pisula, 2007) and FQOL (Wodehouse & McGill, 2009). There have been numerous demographic factors (e.g., poverty, minority status, single-parent status) that have been identified as possible risk factors for families as they strive to achieve lives of quality (Brandon & Hogan, 2004; Honberg, Kogan, Allen, Strickland, & Newacheck, 2009; Rosenberg, Zhang, & Robinson, 2008; Welterlin & LaRue, 2007). Mental health service providers are in a unique position to understand the needs of families raising children with
disabilities and advocate for them as they strive to achieve lives of quality. This article will first review demographic factors that may negatively impact FQOL for families of children with disabilities. Second, parental mental health and protective factors that parents of children with disabilities utilized to enhance FQOL will be presented. Third, this article will examine the supports and barriers to FQOL within various ecological systems (i.e., family, informal social, school, spiritual, and social service support) systems and offer recommendations and practical suggestions mental health service providers may utilize as they work to enhance FQOL for families of children with disabilities.

**Demographic Factors Impacting FQOL**

**Poverty**

The impact of poverty on families of children with disabilities has received considerable attention in the literature (Bailey, Hebbeler, Scarborough, Spiker, & Mallik, 2005; Oppenheim & Harker, 1996; Rosenberg et al., 2008). The number of children with disabilities living in poverty in the U.S. is disproportionate to the number of typically developing children with recent data approximating that 28% of children with disabilities were being raised in poverty whereas only 16% of children without disabilities live in poverty (U.S. Census Bureau, 2006). The relationship between poverty status and childhood disability was examined in Rosenberg and colleagues’ (2008) study of 19,150 parents which indicated that by two years of age, children residing in families below the poverty level were more likely to present with developmental delays than children whose families were above the poverty level.
A potential contribution to the relationship between poverty status and disability is the increased financial strain placed on families as they care for their child’s needs (Hanvey, 2002). Oppenheim & Harker (1996) identified that children with disabilities may require adapted modes of transportation, modifications made to the home, special diets, child care, supplies, individualized health care, and adaptive equipment (e.g., communication and mobility devices) which are oftentimes expensive to acquire (Oppenheim & Harker, 1996; Roeher Institute, 2000). In a recent survey of Canadian children with disabilities (e.g., sensory, communication, physical, learning) \( (N = 90, 480) \), researchers found that less than half of all children’s needs for assistive technology were met completely (45.3%), while approximately one-third had some but not all of the equipment they required (30.1%), and almost one quarter did not have any of the assistive technology (24.6%). Parents of these children with disabilities cited the cost to obtain the aids as the primary reason why they were unable to meet their child’s assistive technology needs (Bélair et al., 2008).

Unfortunately, researchers also have suggested that children with disabilities in low socioeconomic status (SES) families may be less likely to receive early intervention services than children with disabilities in higher SES families (e.g., Bailey et al., 2004; Denney, Itkonen & Okamoto, 2007; McManus, McCormick, Acevedo-Garcia, Ganz, & Hauser-Cram, 2009). Bailey and colleagues (2004) found that families of lower SES \( (N = 2,974) \) were less likely to access early intervention services than families of higher SES. They attributed this lack of access to later identification of their child’s disability resulting from a lack of resources and a delay in seeking out early intervention services. McManus and colleagues (2009) utilized data from the 2005-2006 National Survey of
Children with Special Healthcare Needs. In their sample of children younger than three that had been diagnosed with developmental disabilities, they found that children residing in low SES families were less likely to receive early intervention services than children residing in higher SES households. The authors attributed differences in access to services to family demographics and state programming procedures.

**Poverty status and health insurance.** Poverty status also has been found to increase the likelihood that families of a child with disabilities will not possess adequate health insurance, thereby reducing the family’s access to adequate medical services for their child (Porterfield & McBride, 2007; Rondero Hernandez, Montana, & Clarke, 2010). Honberg and colleagues (2009) reviewed data collected from a national survey of parents of children with health care needs ($N = 40,465$) and found that despite expansions to the Medicaid and Children’s Health Insurance Programs, families living in poverty were less likely to have health insurance coverage when compared to families of higher SES. In addition, they found that when compared to families of higher SES, low SES families who had health insurance coverage for their child with a disability were less likely to have benefits that enabled them to receive services from needed health care providers (Honberg et al., 2009). Porterfield and McBride reviewed data collected from the 2001 National Survey of Children with Special Health Care Needs ($N = 38,866$). They discovered that not only were children from families of lower SES less likely to have health insurance coverage than children residing in families of higher SES, parents of lower SES often failed to recognize their child’s needs for specialized health care services.

**Minority Status**
The Centers for Disease Control and Prevention (CDC; Keppel, Pearcy, & Wagener, 2002) identified risk factors that potentially increased the likelihood of childhood disability faced by minority families (e.g., limited access to prenatal care, increased risk for low birth weight babies). Keppel and colleagues (2002) found that minority families were more likely to live in poverty than non-minority families. Poverty status has been linked to a family’s ability to obtain health insurance. As such, families of minority status have been found to lack health insurance (Honberg et al., 2009; Bailey et al., 2005; Welterlin & LaRue, 2007) which impedes their ability to access to early intervention services (Bailey et al., 2004; Rosenberg et al., 2008).

**Minority status and health insurance.** Minority families have been found less likely to have health insurance than their non-minority counterparts (Honberg et al., 2009; Bailey et al., 2005). In their conceptual paper, Welterlin & LaRue (2007) hypothesized this lack of health insurance among minority families may be attributed to social, cultural, and economic barriers (Welterlin & LaRue, 2007). Freedman and Capobianco Boyer (2000) reported that the minority parents of children with disabilities (n = 8) in their study identified inadequate information or misinformation about various support options which the authors attributed to social service providers’ lack of outreach to ethnic minority families. Honberg and colleagues’ (2009) found that Hispanic children with disabilities were less likely to have health insurance coverage than other ethnic groups (i.e., White, Black, Other). Minority families with limited English language proficiency were less likely to have health insurance coverage for their child with a disability than parents fluent in the English language while Hispanic non-English
speaking families were least likely to have health insurance coverage than the other ethnic groups included in the study (Honberg et al., 2009).

**Minority status and access to early intervention services.** Researchers (Bailey et al., 2004; Rosenberg et al., 2008) have found that minority families experienced more difficulty accessing early intervention services than their non-minority counterparts. Bailey and colleagues (2004) interviewed a large sample of parents (N = 3,338) whose children were receiving early intervention services. They found that minority families were more likely to report difficulty finding out about early intervention services than White families. In a longitudinal study of children receiving early intervention services (i.e., Babies Can’t Wait) (N = 8,950), African-American children (n = 1226) were least likely to have access to early intervention services, and were half as likely to receive the needed services as white children (Rosenberg et al., 2008). African American parents that accessed early intervention services for their child with a disability reported being less satisfied with the services than White families (Rosenberg et al., 2008). The researchers hypothesized that this discrepancy in accessing services may imply that Part C of the Individuals with Disabilities Education Improvement Act which allows for community and governmental agencies to coordinate efforts to address the needs of children with developmental delays from birth until their third birthday may meet the needs of White families more successfully than for African American families.

**Single Parent Status**

Hogan and colleagues (2000) obtained data from the 1994 and 1995 National Health Interview Surveys on Disability (NHIS-D) (N = 41,300) and the Year 2000 Health Supplement to the 1994 and 1995 NHIS-D (N = 9,530). Their findings suggested that
families of children with disabilities were more likely to be headed by a single parent. Unfortunately, being a single parent may further increase the challenges faced by parents raising a child with a disability, particularly in regards to employment, income, and utilization of social service supports. For example, Lukemeyer and colleagues (2000) reported that single parents of children with disabilities were less likely to be employed and experienced more financial difficulties than single mothers of typically developing children. A child with a disability often requires specialized care that most child care providers are unable to give, which may explain single parents’ difficulty obtaining work (Brandon & Hogan, 2001). High care-taking demands and lack of employment opportunities appear related to single parents of children with disabilities reporting more difficulty accessing and utilizing social service supports (Lukemeyer et al., 2000) than their married counterparts.

Age of Child with Disability

Researchers have suggested that parents of younger children with disabilities may experience lower FQOL than parents of children with disabilities who were older (Mash & Johnston, 1983; Rogers, 2007). Rogers (2007) reviewed interviews and personal narratives obtained from 24 parents of children with disabilities (i.e., autism spectrum disorders, emotional/behavioral disorders, medical conditions, speech delays, birth defects) to explore emotional difficulties experienced by these parents and found that the emotional stress experienced by families of children with disabilities may be more intense for parents of young children. Rogers also determined that parental stress levels may be higher when the child is younger because diagnoses typically occur when the child is young. Mash and Johnston (1983) compared parents of children diagnosed with
hyperactivity \((n = 40)\) to parents of age-matched typically developing children \((n = 51)\) and found that parents of younger children \((age = 5)\) with hyperactivity reported the higher levels of stress than parents of older children \((age = 8)\) with hyperactivity. These elevated stress levels were related to the frequency and magnitude of the child’s behavior challenges and parents’ attempts to learn effective ways to manage their child’s behaviors.

**Families Raising Multiple Children with Disabilities**

Families raising children with disabilities, especially those of genetic etiology, may have more than one child with a disability. Rogers’ \((2007)\) study of families raising children with disabilities \(N = 24\) included families raising more than one child with a disability and found that when a second child in the family began exhibiting similar difficulties as their first child with a disability. Findings suggested that parents experienced more intense reactions associated with the need to adapt to the anticipated demands of their newly diagnosed child’s needs, concern about the child and family’s future, and feelings of sadness related to not having a typically developing child \(\text{(Rogers, 2007)}\). Orsmond and colleagues \((2007)\) examined maternal well-being of mothers of adolescents and adults with autism \((n = 325)\) to mothers raising a child with autism and an additional child with a disability \(\text{(i.e., medical conditions, learning disabilities, and psychiatric disorders)}\) \((n = 59)\). Results showed that mothers raising more than one child with a disability reported lower personal well-being and lower family functioning than mothers raising only one child with a disability \(\text{(Orsmond, Lin, & Mailick Seltzer, 2007)}\). These researchers posited that lower personal well-being among mothers raising more than one child with a disability may have been a result of the increased caretaking
demands, feelings of anxiety, and other emotional difficulties related to meeting their children’s needs (Orsmond et al., 2007).

Rural and Urban Communities

The geographic location (rural, urban) of families of a child with a disability may influence the availability and quality of social service supports families of children with disabilities utilize to enhance FQOL. While there have been significant advances in social service supports for families of children with disabilities, social services in rural communities remain relatively unchanged due to poverty (Brown, 2008) and a lack of financial resources to fund social services. Barriers to social service supports in rural communities, such as limited services available (Applequist, 2009; Brasfield, 2008; Darling and Gallagher, 2004), poor quality of services (Brasfield, 2008), and distance required to access services (Applequist, 2009; Brasfield, 2008) have been reported in the literature. Darling and Gallagher (2004) examined the needs (e.g., financial, shelter, food, transportation) and supports (assistance from various sources) of families of young children with disabilities residing in rural and urban communities and found that families living in rural communities reported less access to support services than families residing in urban areas. Applequist (2009) found that parents \((n = 30)\) of children with disabilities (ages one through 18) residing in rural areas compared to those families living in urban areas reported having fewer choices of early intervention services for their young children and fewer special educators resulting in limited special education placements. Brasfield (2008) conducted a qualitative study of mothers of children with disabilities \((N = 10)\) residing in a rural community to identify stressors, coping resources, and resilience. The mothers reported an overall lack of available social service supports, poor quality of
available services, lengthy travel to and from urban areas for treatments, and a lack of parental support groups (Brasfield, 2008).

**Parental Stress and Childhood Disability**

The impact of raising a child with a disability on parental stress levels has received extensive attention in the literature and numerous studies have documented that both mothers and fathers reported more stress related to raising their child with a disability than parents of typically developing children (e.g., Dellve et al., 2006; Fidler, Hodapp, & Dykens, 2000; Vermaes, Janssens, Mullaart, Vinck, & Gerris, 2008). These increased stress levels have been directly related to childrearing responsibilities (Fidler et al., 2000), concern for their child’s future (Pisula, 2007), and feelings of isolation from other parents raising children without a disability. In their work with mothers of children with cerebral palsy, Glenn and colleagues (2009) found considerably higher levels of maternal stress when compared to mothers of typically developing children, with the highest levels of stress determined by factors such as role restriction, feelings of isolation, insufficient support from their spouse, and demandingness of their child. In addition, Pisula (2007) compared stress levels of mothers of children with autism \((n = 25)\) and Down syndrome \((n = 25)\) and found that mothers of children with autism reported elevated levels of stress due to their concern about child’s dependence on others, concern for their child’s future, and concern about the permanency of the disability.

The current literature suggests the presence and intensity of child behavior problems may have the most impact on parental stress levels (Hassall, Rose, & McDonald, 2005; Tomanik, Harris, & Hawkins, 2004; Baker et al., 2003). For example, in Hauser-Cram’s and colleagues’ (2001) study of 183 parents of children with Down
syndrome, motor impairment, and developmental delays, child behavior problems better predicted elevated parental stress levels than child intellectual disability, physical disability, and developmental delays. Hassall and colleagues (2005) conducted a study of mothers of children with an intellectual disability and severe behavior difficulties ($N = 46$), and results suggested maternal stress levels were more related to the frequency and intensity of their child’s inappropriate behavior than their intellectual limitations. In another study of mothers of children diagnosed as having pervasive developmental disorder ($N = 60$), the behavioral difficulties associated with autism spectrum behaviors were found to contribute significantly to higher levels of parental stress (Tomanik et al., 2004).

Although maternal stress associated with raising a child with a disability has received the most attention in the literature, there is evidence to suggest that paternal stress levels are impacted in similar ways. In their study comparing families of preschool children with developmental disabilities (49 mothers and 39 fathers) to families of typically developing children (40 mothers and 30 fathers), Oelofsen and Richardson (2006) found that both mothers and fathers of children with disabilities reported higher levels of parental stress than parents of typically developing children. Gore (2010) interviewed fathers of children with a learning disability ($N = 21$) from a wide range of social, economic, and cultural backgrounds and found that two-thirds of the fathers experienced emotional difficulties related to parenting, some reported being under constant stress, and others experienced health problems.

Despite some similarities between mothers and fathers raising children with disabilities, the literature also identifies differences. Olsson & Hwang’s (2008) study of
mothers ($n = 62$) and fathers ($n = 49$) of children recently diagnosed with a disability (aged 0 to 5), found that mothers reported higher levels of distress and lower levels of overall well-being than fathers. Veisson (1999) compared depression and stress levels among 208 parents (151 mothers and 57 fathers) of children with disabilities with 156 parents (101 mothers and 55 fathers) of typically developing children. Results indicated that fathers of children with disabilities reported lower levels of depression than was reported by mothers of children with disabilities. Differences also have been observed between mothers’ and fathers’ stress and anxiety levels with mothers reporting higher levels of stress than fathers (Keller, Sterling Honig, 2004). Similarly, in Hastings (2003) study of couples of children with autism (ranging in age from 8-17 years) ($N = 18$) the mothers reported significantly more problems related to anxiety than was reported by the fathers. Baker-Ericzen and colleagues (2005) compared parental stress levels of parents with toddlers diagnosed with autism spectrum disorder ($n = 37$) to that of parents of typically developing children ($n = 32$) and found that child’s level of social skills was significant predictor of child-related maternal stress but did not impact child-related stress of fathers.

Aside from differences in mental health functioning of mothers and fathers of children with disabilities, differences also existed in mothers’ and fathers’ employment opportunities outside of the home (Dowling & Dolan, 2001; Willoughby & Glidden, 1995). Research has shown that maternal employment outside the home serves as a protective factor for FQOL in that it increases family material resources, her opportunity to engage in social interactions (Dowling & Dolan, 2001). However, mothers of children with disabilities often lacked the opportunity to work outside the home more so than
mothers of typically developing children, despite their desire to do so (Dowling & Dolan, 2001). Willoughby and Glidden (1995) proposed that fathers of children with disabilities tended to feel the need to increase the family’s finances to meet their child’s needs, which they accomplished by working longer hours outside of the home. As a result, mothers assumed the role of primary caregiver for their child that interfered with their ability to gain employment outside of the home.

Freedman and colleagues (1995) collected qualitative data from a focus groups comprised of 31 parents of children with developmental disabilities (i.e., autism spectrum disorders, mental retardation, cerebral palsy, and medical conditions). Mothers often reported they were unable to work outside of the home due to the overwhelming exhaustion they felt as a result of the increased child care demands (McConachie, 1986). Another barrier to mothers’ ability to work outside the home was the need to find a job that corresponds with the hours their child attends school since after-school care options are limited (Todd & Shearn, 1996). For example, the typical hours of state mandated and federally funded early intervention services (e.g., Head Start and school–based services) did not always coincide with the working hours for many mothers, which further hindered their ability to gain employment due to lack of childcare while they work (Todd & Shearn, 1996).

**Intrinsic Parental Protective Factors for FQOL**

Researchers have identified intrinsic protective factors that appear to increase the likelihood that parents of a child with a disability will successfully adapt to and maintain lives of quality for themselves and members of their family (e.g., Crnic & Low, 2002;
Personality traits intrinsic to parents, such as their perception of self-efficacy (Good, 2001; Harty Alant, & Uys, 2006; Mash & Johnston, 1983; Raikes & Thompson, 2005) and utilization of cognitive coping strategies, such as reframing (Hastings & Taunt, 2002) and problem-focused coping (Carver, Sheier, & Weintraub, 1989; Abedutto, Mailick Seltzer, & Shattuck, 2004), have been identified in the literature as protective factors for FQOL among parents of children with disabilities. This section will review these intrinsic factors.

Parental self-efficacy is a cognitive factor that has been associated with parental competence. Parental self-efficacy refers to parents’ perceptions that they are capable of competently and effectively parenting their children (Teti & Gelfand, 1991). Donovan and colleagues (1990) posited that parents with high self-efficacy will likely interpret difficulties related to their child as challenges and exert increased effort to meet their child’s needs. Raikes and Thompson (2005) administered self-report surveys to low SES mothers of children identified as at-risk for developmental delays ($N = 65$). Results suggested that when mothers reported higher levels of self-efficacy they were more confident in their ability to effectively manage more demanding child care responsibilities. Mash and Johnston (1983) utilized the Parenting Self-Esteem Index and Parenting Stress Index to compare parents of children with hyperactivity ($n = 40$) to parents of typically developing children ($n = 51$). They found that mothers with high parental self-efficacy were more likely to remain engaged with their child when faced with increasingly difficult demands of parenting than mothers with lower self-efficacy.
Harty and colleagues (2006) utilized the Self-Efficacy for Parenting Tasks Index to assess self-efficacy of 25 mothers of children with developmental disabilities (e.g. birth defect, language delays, autism spectrum disorder). High self-efficacy was reported by all parents in the study, particularly in regard to nurturing and emotional availability. The authors speculated that parents with high parental self-efficacy are “regularly available for the protection, nurturance, and care of their children” (Harty et al., 2006, p. 148).

Parents that effectively adapt to and cope with the demands of caring for their child with a disability also utilize cognitive coping techniques, which have been defined as “a shift in the way a situation is assessed and cognitively processed so it is rendered more acceptable” (Grant, Ramcharan, & Flynn, 2007, p. 566). Reframing and problem-focused strategies are two of these cognitive coping techniques. Hastings and Taunt (2002) reviewed existing literature on positive perceptions and experiences reported by families of children with disabilities and concluded that when parents positively reframed their attitudes and thoughts about raising a child with a disability they adapted better to the increased demands of raising their child, and were better able to meet their child’s needs.

Problem-focused coping, which is comprised of active coping, planning, and positive reinterpretation and growth (Carver et al., 1989), has been proven to be helpful for parents as they meet the demands of raising their child with a disability. Folkman and Moskowitz (2000) hypothesized that utilization of problem-focused coping creates a sense of control and mastery that increases parents’ ability to effectively meet the demands associated with raising their child with a disability. This was evident in Abbeduto and colleagues’ (2004) comparative analysis of self-report survey data
collected from 235 mothers of children with disabilities (genetic disorders and autism spectrum disorders) indicating that mothers who utilized problem-focused coping skills were less pessimistic about their child’s future than those who failed to utilize problem-focused coping strategies. Stoneman and Gavidia-Payne (2006) conducted a study of married couples of children with disabilities ($N = 67$) and found that fathers who employed problem-focused approaches were more positive about their marriages. In addition, when fathers utilized problem-focused approaches, mothers reported feeling more positively about their relationship with their husbands (Stoneman & Gavidia-Payne, 2006).

**FQOL and Ecological Systems**

Families of children with disabilities do not function as isolated units; rather, they interact among numerous ecological systems within our society. Given the challenges families of children with disabilities may face as they strive to obtain FQOL, researchers are increasingly assuming an ecological perspective of disability to identify ways in which ecological factors both hinder and improve FQOL. Numerous barriers have been identified within various ecological systems that parents of children with disabilities encounter as they pursue a life of quality (e.g., Olsson & Hwang, 2002; Risdal & Singer, 2004; Park, Turnbull, & Turnbull, 2002; Wodehouse & McGill, 2009; Soresi, Nota, & Ferrari, 2007). By assuming an ecological perspective, FQOL proponents consider the families’ challenges that result from the disability as a societal problem (Brown, 2008; Brown, Schalock, & Brown, 2009). Consequently, the FQOL construct has initiated the development of community programs and services to support families of individuals with disabilities and enhance their ability to access and participate in all aspects of community
life. In all, the assumption is that if an individual and their family has adequate and appropriate supports, their FQOL will be greatly enhanced (Turnbull, Turnbull, Brown, & Turnbull, 2004).

Interestingly, operational definitions of the various types of support that parents utilize as they care for their child with a disability tend to be absent in the literature (Guralnick, Hammond, Neville, & Connor, 2008). For the purpose of this article, practical support refers to the assistance given by others such as childcare and help with everyday tasks. Informal social support refers to assistance given to families of a child with a disability by their friends. Social service support encompasses the numerous services available in communities to assist parents in meeting the needs of their child and family. In the following sections, the supports and barriers within the family, social, school, employment, spiritual, and formal support systems will be examined. Recommendations for ways in which mental health service providers may advocate for families of children with disabilities as they strive to decrease barriers that exist within the various systems will also be discussed. A summary of recommendations as well as practical suggestions for mental health service providers are presented in Table 1.

Family System

Parents of children with disabilities often rely on each other and other family members for support as they care for their child with a disability. This section will focus on the supports and barriers to achieving FQOL within the family system (i.e., spouses/partners and extended family members).

Parental relationships. Parents often look to each other for support as they meet the daily demands of caring for their child with a disability. Kersch and colleagues (2006)
analyzed data collected from families participating in a longitudinal study of the
development of children with disabilities and family adaptation \( N = 67 \) and found that
higher marital quality, characterized by shared activities and agreement between partners
on household tasks, decision making, and recreation, buffered parents from experiencing
elevated levels of stress. Skok and colleagues (2006) utilized structured interviews and
self-report surveys with mothers of children with cerebral palsy to examine relationships
among severity of childhood disability, parental stress, levels, and support from family
and friends. Results indicated that when parents perceived their partners as supporting
them in their parenting role they were less likely to view situations as stressful and they
felt more able to effectively manage the demands of stressful situations (Shok, Harvey, &
Reddihough, 2006). Positive relationships between parents of children with disabilities
also have been found to improve mothers’ and fathers’ mental health. Kersch and
colleagues’ (2006) found that the marriage quality of parents of children with disabilities
predicted overall parental mental health functioning regardless of family socioeconomic
status, child characteristics, and amount of social support the family received.

Unfortunately, it has been documented in the literature that raising a child with a
disability may negatively impact the relationship between the child’s parents (Kersch et
al., 2006; Risdal & Singer, 2004; Urbano, Hodapp, & Floyd, 2007). Kersch and
colleagues’ (2006) found that parents reported lower-quality marriages than couples of
children without disabilities, with approximately 25% of parents in the study describing
their marital relationship as strained. Risdal and Singer (2004) conducted a meta-analysis
of studies involving families of children with developmental disabilities and chronic
illness and found that while marriage difficulties of parents of a child with a disability
may not be as common as once believed, these parents did experience more marriage difficulties than parents of typically developing children. Urbano and colleagues (2007) compared divorce rates of parents of children with birth defects ($n = 10,283$) and typically developing children ($n = 361,154$) and found that marriages of parents raising children with birth defects were more likely to end in divorce than marriages of parents of typically developing children.

Enhancing parental relationships and preventing discord has been proposed as some of the most effective means of promoting overall well-being of parents of children with disabilities (Sloper, 1999). Therefore, mental health service providers need to be aware of the potential for parents of children with disabilities to experience difficulties in their relationships with each other and provide support as appropriate. This support could take the form of encouraging parents of children with disabilities to consider private counseling services and sharing knowledge with parents regarding practitioners in the area available to provide family counseling (see Table 1).

**Extended Family.** Parents often rely on extended family members for support when caring for a child with a disability (Brown, Anand, Alan Fung, Isaacs, & Baum, 2003). In a study of parents of children with intellectual disabilities ($N = 34$) mothers reported receiving practical help from extended family members, particularly in the sharing of child care responsibilities (Pal, Das, Chaudhury, & Sengupta, 2005). Grandparents have been noted to play an important role in supporting parents of a child with a disability. In a study of mothers ($n = 22$) and fathers ($n = 3$) of children with disabilities (e.g., genetic disorders, birth defects, medical disorders), Hornby and Ashworth (1994) found that grandparents, particularly maternal grandparents, assisted
with childcare and transportation of their grandchild with a disability. Harris and colleagues (1985) conducted a study involving mothers, fathers, grandmothers, and grandfathers of 19 children with autism and reported that maternal grandmothers are empathetic toward their daughter’s difficulties raising their child with a disability. Maternal grandmothers provided the most support of all grandparents, which was helpful in buffering maternal stress levels (Harris, Handleman, & Palmer, 1985). In a qualitative study of grandparents of children diagnosed with autism spectrum disorder (N = 6), semi-structured interviews revealed that grandparents of children with disabilities were particularly helpful in supporting parents as they advocated for their child (Margetts, Lecourteur, & Croom, 2006).

However, many parents have reported that the amount and type of support they received from extended family members was not enough to assist them in effectively managing their child’s disabilities (Brown et al., 2003). For example, while parents of children with a range of disabilities (e.g., genetic disorders, medical disorders) (N = 34) reported they received emotional support from extended family members they did not receive adequate practical support (Brown et al., 2003). Brown and colleagues hypothesized this lack of practical support may be related to a lack of “knowledge or comfort level” (Brown et al., 2003, p. 226) that extended family members may possess about caring for individuals with disabilities. The authors also hypothesized that a lack of involvement from extended family members may be attributed to geographical barriers (Brown et al., 2003).

Additional factors (e.g., disagreement regarding treatment, emotional distance between family members) may explain the lack of support parents of children with
disabilities may receive from extended family members. Upon reviewing empirical studies of grandparents of children with autism, Hillman (2007) posited that parents of children with disabilities may disagree with their parents over treatment for the child’s disability and discipline practices. In a longitudinal study of 64 families of children with developmental disabilities (i.e., mental retardation, autism spectrum disorder, developmental delay, cerebral palsy) elevated parental stress levels were related to increased emotional distance between the relationships with in-laws (Trute, 2003).

**Recommendations for mental health service providers within the family system.**

Mental health service providers might alleviate family discord brought on by disagreement regarding child rearing of the child with a disability by educating family members in communication and conflict resolution skills (Hillman, 2007) (see Table 1). It also may be beneficial for mental health service providers to assist family members in defining their individual roles and responsibilities and related to the child with a disability (Kazak & Marvin, 1984) (see Table 1). By ensuring family members understand the child’s disability and their respective roles and responsibilities discord between family members regarding child rearing and discipline may be alleviated.

**Informal Social System**

Informal social support refers to assistance given to families of a child with a disability by their friends. Parents of a child with a disability have reported they often rely heavily on support from friends (Dillenburger, Keenan, Doherty, Alvin, & Tony, 2010) for childcare, assistance with daily tasks, and for emotional support. Crnic and Low (2002) cited social support in the form of friendships as particularly helpful in protecting parents of children with disabilities from experiencing elevated levels of stress.
Duvdevany and Abboud (2003) conducted a study of Israeli mothers (\(N = 100\)) to examine the influence of informal social support on maternal stress levels. Results indicated that mothers who received the most assistance from friends were less likely to suffer from elevated levels of stress and were more likely to report feelings of well-being (Duvdevany & Abboud, 2003). Britner and colleagues (2003) analyzed data from self-report surveys completed by 87 mothers of young children with disabilities and found that parents who reported adequate support from friends also reported higher levels of overall well-being. Rogers (2007) reviewed interviews and personal narratives of parents raising children with disabilities and discerned that when parents perceived themselves as having adequate informal social support they felt more empowered, experienced fewer marriage difficulties, utilized more effective coping strategies, reported feeling more emotionally secure, and had a greater sense of autonomy (Rogers, 2007).

Having a child with a disability also may have a negative impact on parents’ informal social system, including their ability to establish friendships and participate in leisure activities they find enjoyable (Redmond & Richardson, 2003; Wodehouse & McGill, 2009). Kerr and McIntosh (2000) conducted interviews of families of children born with congenital upper limb deficiency (\(N = 63\)). They found that parents reported a lack of friend support in accepting the new baby, oftentimes because the friends were also grieving over the baby’s disability. In addition, mothers of children born with congenital upper limb deficiency tended to avoid interacting with other new mothers because they viewed their child as being very different from a typical newborn (Kerr & McIntosh, 2000). Kazak and Marvin (1984) compared families (\(N = 100\)) of children with spina bifida to families of typically developing children and found that the parents of a
child with a disability lacked opportunities to establish long-term friendships. The authors hypothesized these results were possibly due to the increased amount of time mothers of children with disabilities spent caring for their child and the amount of time fathers work to maintain financial stability (Kazak & Marvin, 1984) which decreased their ability to establish friendships, pursue leisure activities, and follow through with family plans.

**Recommendations for mental health service providers within the informal social system.** Mental health service providers are in a unique position to enhance informal social support among families of children with disabilities by encouraging parents to join community support groups for families of children with disabilities (Kerr & McIntosh, 2001). These support groups would provide parents an opportunity to meet other parents of children with similar needs, share their experiences, identify shared interests, and develop friendships based on empathy and understanding for each other’s needs as they strive to raise their child with a disability. As mental health service providers address the needs of parents, they should not lose sight of the fact that parents wish to increase the friendship network of their child with a disability (Freedman & Capobianco Boyer, 2000; Siklos & Kerns, 2006). In order to provide children with disabilities the opportunity to establish friendships, mental health service providers could research the extracurricular activities (e.g., recreational sports, Girl Scout, Boy Scouts, etc.) that are appropriate for children with disabilities in the community and encourage parents to enroll their child in those activities (see Table 1).

**School System**

Children with disabilities often receive special education support within public school systems to address their individual education needs. Parents have reported
satisfaction with support they receive from school, as evidenced in Applequist’s (2009) work study of parents of children with disabilities (N = 32) that attended public school. Those parents reported being pleased when they learned that their child could receive school services at no cost. In addition, the parents were satisfied that the transportation services provided by the school were provided at no cost, which was particularly helpful for those parents who lacked reliable transportation (Applequist, 2009).

Even though research has shown benefits of parents of children with disabilities participation in their child’s education (Shelden, Angell, Stone, & Roseland, 2010) there is evidence that this is not commonly practiced (Hess, Molina, & Kozleski, 2006). Unfortunately, federal, state, and local-level interpretations of parental empowerment and involvement most often reflect the minimal amount required by law and as a result, parents are not recognized as equal partners in their child’s education. At the local level, school administrators and professionals often define how and to what extent parents are involved. In their conceptual paper regarding equity and advocacy expectations as well as parental participation in special education decision-making within legal mandates Kaylanpur and colleagues (2000) contend an imbalance in power certainly exists, and it is even more pronounced between culturally and linguistically diverse parents and school personnel. In their focus groups of parents of children with disabilities (e.g., learning disabilities, cognitive disabilities, emotional disorders) (N = 27) Hess and colleagues (2006) found that parents felt as though they were allowed very little input in the educational decisions made for their child. Particular concern was expressed regarding level of communication between parents and teachers, including information regarding their child’s needs, academic progress, and behavior. The United States Department of
Education (2003) reported that African American and Hispanic parents of children with disabilities are less likely to engage with the local school system than White parents. Keyes (2000) proposed that the lack of school involvement of minority parents of children with disabilities may be due to cultural differences between the family and the school system, such as the belief that educators, not parents, are authority figures in regard to their child’s education. Additional barriers may exist for minority parents, as evident in Cassidy’s (1988) study of 24 African American parents raising children with disabilities. Parents in this study cited scheduling difficulties, transportation issues, and lack of understanding of the process involved in the development of their child’s Individual Education Plan (IEP) as contributors to their lack of involvement with their child’s school.

Al-Hassan and Gardner (2002) identified additional barriers that limit school participation by immigrant parents of students with disabilities, such as lack of familiarity with and understanding of the American public education system, differences in communication styles, and limited English proficiency. In addition, Turney and Kao analyzed data collected from the Early Childhood Longitudinal Study – Kindergarten Cohort (National Center for Education Statistics, 2001) and found that Hispanic and Asian immigrant parents did not feel welcome in their child’s school, they struggled with language barriers, and were more likely to lack transportation than native-born parents, each of which deterred them from participating in their child’s school.

**Recommendations for mental health service providers to increase parental empowerment within the school system.** Mental health service providers within schools (e.g., school counselor, school psychologist, school social worker) are in a unique
position to empower parents of children with disabilities to advocate for their children. Hess and colleagues (2006) suggested this could be accomplished through utilization of parent education opportunities and parent mentors. School-based mental health service providers could foster families’ needs to have their hopes and concerns for their children heard by school personnel (Hess, Molina, & Kozleski, 2006) by creating opportunities for parents to meet with school personnel to voice their concerns openly. In order to increase communication between parents of children with disabilities and the school, mental health service providers may wish to encourage school administrators to utilize a variety of communication means, such as written notes, newsletters, email, bulletin boards, and teacher conferences that can be conducted via phone and/or face to face (Ratcliff & Hunt, 2009) (see Table 1).

**Recommendations to increase participation of fathers within the school system.**

To increase fathers’ participation, school-based mental health service providers may wish to provide parental programs at times (e.g., evenings, weekends) convenient for fathers whose work schedules prohibit their ability to participate during the typical school day (Palm & Fagan, 2008). School-based mental health providers should also be aware that making home visits has been found to increase the participation of fathers of children with disabilities (Raikes & Thompson, 2005) and as such they may wish to consider scheduling meetings in the student’s home. Mental health service providers within schools may also want to consider creating “father-only activities” (Palm & Fagain, 2008, p. 755), such as designating a day for fathers to eat lunch with their children or organizing a sports activity on the weekend for fathers to participate in with their children (see Table 1).


**Recommendations to meet the needs of minority families of children with disabilities within the school system.** To effectively support minority families of children with disabilities it is important that school-based mental health providers utilize family supports that are flexible, sensitive to family beliefs, and incorporate families’ cultural values (Freedman & Capobianco Boyer, 2000). Such supports may include programs that focus on parental empowerment and outreach, which has been helpful in increasing parental empowerment and outreach for minority families (Abdul-Adil & Farmer, 2006). Mental health service providers in the school should ensure interpreter services are provided for parents who are not proficient in the English language (Sohn & Wang, 2006) and work with school administrators to ensure that all school information and correspondence is provided through oral or written means in the family’s native language (Freedman & Capobianco Boyer, 2000). In order to further support minority families of children with disabilities, school-based mental health providers may wish to develop parental education opportunities (e.g., English language skills, cultural adaptation, parenting skills, public school system policies) (Sohn & Wang, 2006) (see Table 1).

**Church/Religious System**

Parents of children with disabilities may be involved with a church or other religious organization. In a study of 30 parents of children or adults with developmental disabilities attending evangelical Christian churches, the parents reported their religious affiliation was particularly helpful in providing opportunities for social interactions with others and fostering growth of spiritual beliefs (Treloar, 2002). In their study of 34 parents of children with disabilities, (i.e., intellectual disability and genetic disorders, attention-deficit/hyperactivity disorder, medical disorder), Brown and colleagues’ (2003)
found that parents’ religious beliefs and involvement with their church or religious organization contributed to their ability to achieve and maintain a life of quality. In addition, these parents reported having the opportunity to join in religious practices, such as church activities, perceived emotional support, and strength derived from their spiritual beliefs (Brown et al., 2003).

Although some parents of a child with a disability felt they were able to access various aspects of their church or religious organization (e.g., Brown et al., 2003; Treloar, 2002), other parents reported barriers encountered as they attempted to engage in a spiritual life of their church (e.g., Smith, 2010). Smith (2010) cited physical barriers within the church building as problematic for children and individuals with disabilities who have motor impairments. These physical barriers may impede families of children with disabilities from ambulating around the building or participating in various activities, such as classes and services (Smith, 2010). Aside from physical barriers, children with disabilities often require specialized care that extends beyond that required for typically developing children. In a study of parents of children and adults with disabilities, Treloar found that parents of children with disabilities (N = 30) felt as though their child was not integrated into the church due to a lack of understanding by church leaders regarding how to include their child in church activities (Treloar, 2002). The parents also reported feeling dissatisfied with their child’s acceptance into the church community, and felt as though their child with a disability was perceived as a burden on the church’s financial resources (Treloar, 2002). Speraw (2006) conducted a study of parents of children with disabilities (N = 26) from 15 different denominations and found
that parents reported their church or other religious organization failed to recognize the
importance of developing their child’s spiritual life.

**Recommendations for mental health service providers within the spiritual**

**system.** Mental health service providers may consider determining whether or not families of children with disabilities wish to be involved with a church or religious affiliation. This could be accomplished during the initial in-take interview with the family. It might be helpful for mental health service providers to establish open communication with local religious affiliations in order to advocate for inclusion of these families within the church/religious community. Church and religious leaders may lack knowledge about the child’s disability, and mental health service providers could provide information regarding the child’s disability and specific needs the child and family may require (e.g., specialized audio-visual equipment, installation of ramps or elevators, wider pews, seating arrangements to accommodate walkers and wheelchairs) (Smith, 2010) as they integrate themselves into the religious establishment (see Table 1).

**Social Service Support System**

Aside from relying on family members, friends, and the church for support, many parents of a child with a disability also utilized social service supports in order to improve their quality of life. The following section will review several of the main types of social service supports utilized by parents (i.e., financial assistance, medical care, community programs) designed specifically for individuals and families of children with a disability.

**Financial assistance.** Many families of children with disabilities receive financial assistance from government agencies and programs in order to assist them with the
increased financial burden of raising a child with a disability. This type of support has been cited by families of a disabled child as one of the most helpful types of support they receive (Herman, 1994), particularly by reducing the amount of out-of-pocket expenses (Caldwell, 2007) and providing a means to employ caretakers for their child with a disability (Caldwell & Heller, 2003). In their theoretical article, Parish and Cloud (2006) identified many needs associated with raising a child with a disability (e.g., private therapy, adaptive equipment, and medication) that often lead to financial strain for the family. This increased financial burden is particularly problematic for families of low SES and as a result, these families will require additional monetary assistance (Park et al., 2002) and support than low-income parents of typically developing children. Marcenko and Meyers (1994) interviewed 81 families of children with disabilities prior to receiving their monthly subsidy ($225) and again one year later. The parents of lower SES reported that the financial subsidy was helpful in meeting their child’s and family’s needs. Allard and colleagues (1993) conducted a study of the Family Cash Assistance Project three years after it was initiated and found that the additional financial support improved families’ feelings of empowerment, they had more work opportunities, they were less stressed, functioned more independently, and were more successful at integrating their child with a disability into the community.

Unfortunately, parents of a child with a disability do not always receive adequate financial support (Freedman & Capobianco Boyer, 2000; Parish & Cloud, 2006). Braddock (2007) identified inequities in financial support that existed throughout our society for families of children with disabilities despite growing from 2.3 billion in 1955 to 82.6 billion in 2004. In their conceptual article, Parish and Cloud (2006) reported that
the financial assistance received by families of a child with a disability does not always cover all their child’s expenses. Freedman and Capobianco Boyer (2000) utilized focus group interviews and discussion to examine the perspectives of parents of children with disabilities ($N = 31$) regarding their experiences with and impact of family supports and found that the availability of and timely reimbursement of funds was problematic for parents of children with disabilities, many parents were required to pay out of pocket for services, and the amount of time to receive reimbursement from governmental agencies was excessive. In addition, these parents felt disrespect for their time, privacy, and dignity due to excessive record keeping requirements mandated by the government agencies prior to reimbursement of funds paid out of pocket. 

**Recommendations for mental health service providers regarding financial assistance.** Mental health service providers are in a position to advocate for policy changes that would increase the financial assistance provided to families of children with disabilities. The Federal Poverty Level (FPL; 2002) does not consider the additional costs of raising a child with a disability and as a result, many families did not receive the financial assistance that they desperately needed (Parish et al., 2008). It may be helpful for mental health service providers to encourage policy makers to examine the eligibility requirements for financial assistance to ensure more families of children with disabilities receive the financial support they need (Parish et al., 2008). Specific areas mental health service providers could address include increasing the asset amount of government sponsored health insurance (i.e., Medicaid) provided to families of children with disabilities, increasing the amount of financial assistance provided by Social Security Supplemental Income (SSI), and raising the family income limit so more families of
children with disabilities receive SSI and housing subsidies (Parish et al., 2008) (see Table 1). In addition, mental health service providers may wish to support policy reform proposed by the Children’s Defense Fund (1999). The proposals include allowing exemptions from welfare-aid cutoffs for families who meet state define hardship criteria, encouraging states to utilize their own funding to support families of children with disabilities, and increasing efforts to identify families eligible to receive Medicaid and food stamps.

Mental health service providers will need to remain cognizant of the unique needs of single mothers of children with disabilities (Parish, Rose, Grinstein-Weiss, Richman, & Andrews, 2008) and work to identify those families within the community. Single mothers of children with disabilities may lack the opportunity to gain employment or attend school due to caretaking responsibilities and inability to afford childcare. Mental health service providers could address this by advocating for the development of low-cost childcare programs that will allow single mothers the opportunity to work or further their education (see Table 1).

**Medical care.** Many children with disabilities have medical needs surpassing that of typically developing children. Healthcare professionals not only share information with parents of children with disabilities regarding their specialized needs, they are also in a unique position to allay parents’ fears and anxieties about their child’s disability (Sallfors & Hallberg, 2003). Cavallo and colleagues (2009) examined coping mechanisms of parents of children receiving therapy due to physical disabilities ($N = 150$) and discovered that communication with healthcare professionals was especially helpful to parents, especially those with younger children. The authors speculated that the
time of diagnosis is particularly difficult for parents, which may result in their seeking answers from the healthcare professionals more so than after the diagnosis is no longer new.

However, obtaining adequate information from healthcare professionals regarding their child’s diagnosis is oftentimes difficult for parents. For example, Carraccio and colleagues (1998) surveyed parents and caregivers of children with disabilities ($N = 49$) who accompanied their child to appointments with specialists and found that only half were able to adequately describe their child’s disability. Kenny and McGilloway (2007) conducted a study of 32 parents of children with low cognitive abilities and found that many parents did not receive adequate information regarding their child’s disability at the time of diagnosis or thereafter.

**Recommendations for mental health service providers within the medical care system.** Mental health service providers may wish to communicate with local medical professionals to explain the importance of providing families of children with disabilities information regarding the etiology of the disability, treatment, and prognosis in a manner that is easy to understand. Additionally, mental health care providers may wish to encourage health care professionals to listen to parents’ experiences with their child, trust in parents’ intuition regarding their child’s needs, and respect the personal knowledge parents have obtained about their child with a disability (Grant, Ramcharan, & Flynn, 2007) (see Table 1).

**Community support services.** Families of children with disabilities often utilize community support services, such as governmental agencies, private practitioners, and community organizations to address their child and family’s needs (Schalock et al.,
The goals of these services range from addressing the specific needs of the child with a disability to providing in-home support to families as they meet their family’s needs. In a study of 30 families utilizing community services, Greeff and colleagues (2006) found the families who accessed the most community services had lower levels of stress and were better able to adapt to the challenges they faced in their lives more than families who accessed fewer services. Cavallo’s study of parents of children with physical disabilities (N = 150) indicated that parents with only a high school diploma found that community support services helped them cope with meeting their child with a physical disability’s needs which they speculated was related to a lack of financial resources which led to their seeking out social services for financial support. In addition, working parents also reported community support services as useful in helping them meet their child’s needs, which they posited may be because working parents rely on community services for child care during the day.

However, parents have reported difficulty obtaining information about and gaining access to community support services. This was evident in Freedman and Capobianco Boyer’s study of 31 parents of children with developmental disabilities in which parents reported difficulty discerning how to enter the system and it was also difficult for them to determine the specific types of community support they needed and were eligible to receive, they expressed dissatisfaction due to inflexibility and the lack of choice when selecting a provider. Strict and rigid eligibility criteria were specifically cited as a barrier to accessing community services and many parents reported the lack of coordination between agencies negatively impacted their ability to access all services that might be beneficial for improving FQOL. Brown and colleagues (2003) interviewed
parents of children and adults with developmental disabilities and discovered that parents felt the quality of community services they received were inadequate and did not effectively meet their needs.

Aside from the formal supports available through community support services, parents also reported the need for community services to provide means through which their child’s social life could be enhanced (Brown, 2008). Siklos and Kerns (2006) assessed the needs of families of children with Down syndrome ($n = 56$) and autism ($n = 32$) and found that parents of children with Down syndrome reported the need for community programs to provide their children with opportunities to develop friendships with other children. A similar need was evident in Freedman’s and Capobianco Boyer’s work (2000) in which many parents expressed the desire for community programs to provide weekend activities for children with disabilities as well more opportunities for their child to establish friendships.

**Recommendations for mental health service providers within community support systems.** In order to address the parental needs related to understanding their child’s disability mental health service providers should ensure the information they provide to families of children with disabilities is current and easy to understand (Freedman & Capobianco Boyer, 2000). In addition, mental health service providers should be willing to provide specialized information targeted for specific types of families (e.g., medically fragile children, minorities) to address their unique needs (Freedman & Capobianco Boyer, 2000). Mental health services providers may be able to identify community resources that can be combined to reduce the amount of time and travel for families of children with disabilities. In addition, mental health service
providers may be able to provide better support for the entire family by identifying supports required within various systems and coordinating those services. This could be accomplished as part of the intake process by simply asking about the family’s involvement with other services (see Table 1). A final recommendation is for mental health service providers remember that some families of children with disabilities may struggle with reading and understanding the information they receive and they may not have access to computers to research support options (Darrah et al., 2002). Therefore, mental health service providers should share information via other methods of communication, such as a telephone hotline and community television (see Table 1).

**Respite care.** A specific community service available to some families of children with disabilities is respite care. Initially, respite care was conceptualized as a means for providing parents and families a break from the responsibilities of caring for their child with a disability (Stalker & Robinson, 1994) in an attempt “to enable families to regrow their ability to function at home as individuals and as a family” (Brown, 2008, p.8). In a study of 14 mothers of children with disabilities who utilized respite care, mothers reported that during the time their child with a disability was placed in respite care, they engaged in more social and leisure activities, felt less depressed, and experienced a great sense of overall well-being (Botuck & Winsberg, 1991). Today, the conceptualization of respite care has evolved and not only includes the component of providing a break for parents and families it also includes a means to benefit the child with a disability while they are there (Cotterill, Hayes, Flynn, & Sloper, 1997). Interestingly, little attention has been given in the literature of the impact of respite care on child-related characteristics. One longitudinal study was identified that examined the
impact of respite care on school achievement. Based upon data collected from 13,176 students receiving special education services who had also been placed in respite care, results revealed a significant, positive, and moderate relationship between respite care and academic achievement across time (Barnard-Brak & Thomson, 2009).

Oftentimes, respite care centers are not located in the community in which the child lives which reduces the likelihood that some families are able to utilize them for their child. Dowling and Dolan (2001) conducted interviews with parents of children with disabilities, consumers of respite care, and providers of respite care services. They found that many parents were required to commute approximately 50 miles each way to reach a respite care facility and parents did not feel the benefits of respite care outweighed the inconvenience of the amount of time spent transporting their child to and from the respite care facility. In addition, parents who were unable to drive or lacked transportation, experienced difficulties arranging transportation to a facility so far from home and as a result were not able to utilize respite care services for their family (Dowling & Dolan, 2001). Additional barriers that may interfere with a family’s utilization of respite care have been reported by respite care services providers. In a study of 90 respite service providers, availability of appropriate funding, availability of respite services in rural areas, and availability of trained staff were identified as barriers families may encounter when attempting to utilize respite services (Chan, 2008).

Recommendations for mental health service providers regarding respite care.

Mental health service providers should advocate that providing parents a break from the overwhelming caretaking demands of raising a child with a disability and providing services that benefit the child as well remain at the forefront of respite service. By doing
this the focus remains on what is best for the parents and their child rather than what is best for the health care professionals (Dowling & Dolan, 2001). Service providers might eliminate these transportation barriers by working with other agencies within the community as well as those in other communities to provide transportation by social services. Another way to decrease the inconvenience of lengthy commutes to respite centers is to develop local inter-disciplinary facilities that incorporate both out-patient treatment centers and respite care into one facility (Chan, 2008; Cigno & Gore, 1999) (see Table 1).

### Advocacy

Perhaps one of the most important ways in which mental health service providers can assist families in achieving FQOL is to join with them to advocate for the needs of their family and their child with a disability across all ecological systems. The primary focus of advocacy outcomes is improving services and supports for individuals with disabilities and their families (Wang, Mannan, Poston, Turnbull, & Summers, 2004). As a result, three core principles of family advocacy have emerged: respecting families’ priorities and decisions, helping families achieve their goals, and implementing social service supports that increase the family’s capacity to function within their communities (Wang et al., 2004).

Parents of children with disabilities often find they have to advocate for services within ecological systems, such as in school to receive an appropriate individualized education plan, with physicians to ensure optimal medical treatment, and with service providers to ensure their family receives services for which they are eligible. Research suggests that parents that advocate for their children displayed higher coping skills while
they also experienced higher levels of stress and decreased quality of life as a result of the struggles they face while advocating for their family’s needs (Wang et al., 2004; Nachslen, 2000). FQOL researchers working within an ecological framework have embraced the notion of joining with families as they advocate for their ability to function within all aspects of society. Wang et al. (2004) suggested mental health service providers across systems may be able to reduce parental stress levels and improve family quality of life by joining with them as active partners in advocating with the family for the best services possible. Van Harem and Fiedler (2008) suggested school personnel should strive to be empathetic toward all families and their needs, allow for individualization of family participation, acknowledge families are experts about their needs, and build on the strengths of each family member. These suggestions seem appropriate for all mental health service providers when advocating for families of children with disabilities across all ecological systems.

**Conclusion**

Numerous barriers to establishing and maintaining lives of quality continue to exist for many families of children with disabilities across the systems. Mental health service providers are in a unique position to advocate for families and assist them in decreasing the barriers they encounter by increasing the family’s supports. As mental health service providers advocate for families across systems it is important that they remain aware that a life of quality means different things to different people, depending on their culture, age, socio-economic status, individual personalities, and family dynamics. Therefore, a final recommendation to practitioners is to above all involve the family in each and every stage the service planning process, empower them as they make
decisions for themselves, and respect their decisions. In this way, mental health service
providers can assist families of children with disabilities in achieving the lives they strive
to possess for each and every member of their family.

Table 1

*Recommendations and Practical Suggestions for Mental Health Service Providers*

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<tr>
<th>Recommendations for Mental Health Service Providers</th>
<th>Practical Suggestions for Mental Health Service Providers</th>
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<tr>
<td><strong>Family System</strong></td>
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<td>Be aware of the potential for parents to experience difficulties in their relationships with each other and provide support as appropriate (Kersch et al., 2006; Risdal &amp; Singer, 2004; Urbano, Hodapp, &amp; Floyd, 2007).</td>
<td>• Inform parents it is not uncommon to experience relationship difficulties.</td>
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<td>• Ask parents to describe their relationship with each other.</td>
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<td>• Encourage parents to consider private counseling services should they begin experiencing difficulties in their relationship.</td>
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<td>• Provide a list of family/marital counselors in the community.</td>
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<td>Educate family members in communication and conflict resolution skills (Hillman, 2007).</td>
<td>• Encourage family members to openly communicate with each other on a regular basis.</td>
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<td>• When conflicts arise, encourage families to remain calm, communicate assertively, and work to find a solution everyone agrees upon.</td>
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<td>• When conflicts arise, encourage families to remain calm, communicate assertively, and work to find a solution everyone agrees upon.</td>
<td>• Encourage family members to discuss their needs related to the child with a disability and with each other.</td>
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<td>• Facilitate a discussion of roles and responsibilities each family member could assume to meet those needs.</td>
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<tr>
<td>Informal Social System</td>
<td>Provide parents of children with disabilities information about support groups in the community (Kerr &amp; McIntosh, 2001).</td>
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<td>Facilitate family’s engagement with support groups.</td>
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<td></td>
<td>Encourage the development of support groups within the community.</td>
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<td>Share information regarding extracurricular activities in the community with the family, emphasizing those appropriate for children with disabilities (Freedman &amp; Capobianco Boyer, 2000; Siklos &amp; Kerns, 2006).</td>
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<td>• Identify extracurricular activities in the community. Contact the directors and ask about appropriateness of the activity for children with disabilities.</td>
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<tr>
<td>School System</td>
<td>Provide parent education opportunities to address parents’ needs and interests. These educational opportunities could include instruction in the English language, cultural adaptation, parenting skills, specific disabilities, and information regarding public school system (Hess, Molina, &amp; Kozleski, 2006).</td>
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<td>• Once needs/interests are identified, contact experts in the community and ask if they would be willing to facilitate a class to share their knowledge/expertise with parents.</td>
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Use parent mentors to help parents feel empowered and encourage them to advocate for their children.

Foster open communication with parents to ensure they feel as though their thoughts and concerns are important and being heard (Hess, Molina, & Kozleski, 2006).

Ensure parental activities and education opportunities are accessible to all parents, including fathers (Palm & Fagan, 2008).

Create “father-only” activities for fathers to attend with their child (Palm & Fagan, 2008, p. 755).

Be sensitive to families’ cultural beliefs, particularly minority families, as they relate to education, family involvement in their child’s school, disability etiology, child-rearing, etc (Freedman & Capobianco Boyer, 2008).

- Identify parents of children with disabilities that are knowledgeable about public school services for children with disabilities and who are actively involved in the school. Ask if they would be willing to serve as a liaison between other families of children with disabilities and the school.

- Utilize a variety of communication means, such as written notes, newsletters, email, bulletin boards, and teacher conference conducted via telephone and/or face to face (Ratcliff & Hunt, 2009).

- Provide opportunities for parental feedback and for parents to share opinions and ideas regarding school. Could be accomplished at a PTA meeting or open forum.

- Consider holding meetings in the evenings to increase the likelihood that parents will be able to attend.

- Schedule school activities for evenings or weekends to increase the likelihood that parents will be able to attend.

- Consider holding meetings at the student’s home at a time convenient for parents (Raiikes & Thompson, 2005).

- Such activities might include a father-student lunch, sports activity held on the weekend, or a father-daughter dance.

- Research cultural beliefs and practices of the various ethnicities represented in the school.

- Hold meetings with parents to learn about their specific beliefs and experiences. Ensure they do not feel as though they are being judged but
instead are helping the school better understand how to serve/support their family and child.

Encourage parents to be involved in all aspects of the school. Ensure they understand they are a welcomed and valued member of the school community.

- Welcome parents when they visit the school. Provide opportunities for them to become involved (e.g., helping in the media center, reading to classes, helping plan class activities, chaperoning on field trips).
- Ask parents of children with disabilities for ideas and suggestions regarding fund raisers and school-wide activities (e.g. field day, award ceremonies).
- Be sure to ask parents about special needs their child has to ensure they are able to fully participate in all school activities.

Provide interpreter services. Ensure all oral and written information and correspondence is provided in family’s native language (Sohn & Wang, 2006).

- Utilize interpreters employed by the school system. If none are available utilize means such as language lines.
- Identify leaders of minority churches and religious affiliations who are willing to attend meetings to interpret for parents and school personnel.

<table>
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<tr>
<th>Spiritual</th>
<th>Determine if family is involved with or wishes to be involved with a church or other religious organization.</th>
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<td>• Upon initial family in-take meeting, ask about the family’s involvement and/or interest in being involved with a church or other religious organization.</td>
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</table>
Foster and maintain open communication with church and other religious affiliations in the community.

- Hold a meeting with community religious leaders. Share with them the positive impacts spirituality has on the lives of families of children with disabilities.
- Stress the importance of inclusion of children with disabilities into activities with typically developing peers.
- Provide religious leaders with ways in which to contact you should they need information regarding disabilities or resources available in the community.

Provide church and religious leaders with information about the child’s disability.

- Develop handouts that explain the child’s disability. Distribute the handouts to religious leaders in the community.
- Share with families the importance of communicating their wants, needs, and expectations from their church or other religious affiliation.
- Encourage families of children with disabilities to meet with their religious leader. Offer to attend the meeting with them if they so desire.

Facilitate a meeting between the family and church leaders to communicate their wants, needs, and expectations from the church (Smith, 2010).

Social Service System - Financial Assistance

- Advocate for policy changes to increase financial assistance provided to families (Parish et al., 2008).
- Encourage policy makers to examine eligibility requirements for financial assistance to ensure more families of children with disabilities receive the financial support they need.
- Lobby for an increase in asset amount allowed to families from government sponsored health insurance (Medicaid).
- Lobby for an increase in financial assistance provided by Social Security Income benefits (SSI).
- Lobby for an increase in the family income limit so more children with disabilities receive SSI.
Social Service Support – Medical Care

Be aware of vulnerability to poverty of certain families (e.g., single mothers). Actively work to identify those families to ensure they are receiving all the financial support they are eligible for (Parish, Rose, Grinstein-Weiss, Richman, & Andrews, 2008).

- Ask parents to share information regarding their income and the financial supports they receive, if any.
- Provide parents with information regarding the financial assistance they are eligible to receive.
- Facilitate families’ initial contact with financial assistance programs and continue to monitor their involvement over time.

Communicate with medical professionals to ensure they understand the value parents of children with disabilities place on information provided by medical professionals.

- Initiate contact with medical professionals by writing a letter introducing yourself and your involvement with families of children with disabilities.
- Share information with medical professionals about parents’ reliance on them for support and reassurance for their child with a disability.
- Stress to medical professionals the importance of taking the time to talk with parents of children with disabilities, particularly at the time of diagnosis, to share information regarding the disability, prognosis, medical needs, and answer any questions the parents may have.

Ensure medical professionals understand the importance of providing parents of children with disabilities specific and clear information regarding their child’s disability, prognosis, and medical needs (Freedman & Capobianco Boyer, 2000).

- Actively work to maintain up-to-date knowledge of various types of services, eligibility criteria, and service benefits for those services accessed by families of children with disabilities.
- Be sure to obtain information specific to all types of families served. Share this information with families and encourage them to access all services they are eligible to receive.

Social Service Support – Community Services

Service providers should ensure the information that they provide to families of children with disabilities is clear and up to date (Freedman & Capobianco Boyer, 2000).

Information provided should include information targeted for specific types of families (e.g., medically fragile, minorities) to address their unique needs (Freedman & Capobianco Boyer, 2000).
Methods of communication regarding support options should encompass various means to ensure all families have access to that information (Darrah et al., 2002).

Identify areas in which families are functioning adequately as well as those in which they require additional support.

Advocate that respite care keep parental breaks and child benefits at the forefront of their mission (Cotterill, Hayes, Flynn, & Sloper, 1997; Stalker & Robinson, 1994).

Provide transportation to and from respite centers to alleviate families’ length of time traveling or difficulties arising from lack of transportation (Cigno & Gore, 1999).

- Provide families with various means to access information regarding community support services (e.g., internet, telephone hotline, community television, correspondence in the mail).
- Upon initial in-take meeting with a family, utilize a comprehensive questionnaire that incorporates questions regarding the family’s functioning across a range of areas (e.g., spouse/partner relationship, income, health of all family members, transportation, etc.).
- Identify areas in which families are weak and explore immediate supports to address those needs.
- Initiate a professional working relationship with personnel of respite centers. Openly communicate the family’s needs and expectations regarding respite care.
- Work with other community agencies to pool resources to provide transportation to respite services by social services.
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CHAPTER 2
PARENTAL STRESS, SOCIOECONOMIC STATUS, SATISFACTION WITH SERVICES, AND FAMILY QUALITY OF LIFE AMONG PARENTS OF CHILDREN RECEIVING SPECIAL EDUCATION SERVICES

For the past two decades, the impact of children with disabilities on family quality of life (FQOL) has received extensive attention in the literature (e.g., Freedman, Litchfield, Warfield, 1995; Mash & Johnston, 1983; Park et al., 2003). Researchers have suggested that a child with a disability may positively influence family quality of life (FQOL) by fostering the development of love, compassion, and tolerance among their parents (Kausar, Jevne, & Sobsey, 2003). However, researchers within mental health, medical, and clinical settings also have identified barriers to FQOL encountered by families raising children with disabilities such as increased parental stress (e.g., Fidler, Hodapp, & Dykens, 2000; Hauser-Cram, Warfield, Shonoff, & Krauss, 2001), financial strain (Dobson & Middleton, 1998; Park, Turnbull, & Turnbull, 2002), and difficulties related to accessing and being satisfied with social service supports (Freedman & Capobianco Boyer, 2000).

Family Quality of Life

FQOL is an overarching construct that refers to the degree to which families of individuals with disabilities are able to meet their needs, enjoy time spent together, and participate in leisure interests and activities that are important to them (Park et al., 2003). Domains such as physical health, emotional well-being, interpersonal relationships, social inclusion, personal development, material well-being, self-determination, and rights are all considered critical components of quality of life (QOL) for individuals with
disabilities and their families (Schalock, 2004). Researchers have identified positive contributions to FQOL that have been reported by families raising children with disabilities, such as increased feelings of patience, compassion, and tolerance (Kausar, Jevne, & Sobsey, 2003).

Unfortunately, researchers have suggested that the challenges associated with raising children with disabilities also may negatively impact FQOL (e.g., Brown, Anand, Alan Fung, Isaacs, & Baum, 2003; Wang, Mannan, Poston, Turnbull, & Summers, 2004). Based on surveys completed by 69 parents of children with autism, Down syndrome, and typically developing children, Brown and colleagues (2006) found that families of children with disabilities encountered numerous challenges including adequate care for their child and inadequate time to pursue education, career, and leisure activities to enhance overall enjoyment of life. The severity of the child’s disability and family characteristics such as socioeconomic status (SES) also have been identified as potential impediments to FQOL (Zuna et al., 2009). For example, in a study of 130 parents of children with disabilities, the severity of the child’s disability reliably predicted lower parental satisfaction ratings on a FQOL assessment (Wang et al., 2004). Block and colleagues (2002) reported that families of children with disabilities may be more likely to face barriers to FQOL including low-income, unemployment, and lower levels of education which they attributed to factors such as classism and ableism that impact marginalized groups (e.g., individuals with disabilities and their families).

Family quality of life within schools. While FQOL has received extensive attention within mental health (Davison, Prasher, & Janicki, 2003), medical (Glenn, Cunningham, Poole, Reeves, & Weindling, 2009), and clinical settings (Kersch, Hedvat,
Hauser-Cram, & Warfield, 2006), limited research exists that examines FQOL of parents of children with disabilities within school settings. However, children with disabilities often receive special education services through the public school system and researchers have acknowledged the importance of considering FQOL within education settings (Brown & Shearer, 2004). The negative impacts of raising a child with a disability experienced by some parents may impede their ability to effectively need their child’s needs, thereby reducing their child’s quality of life as well (Brown, Schalock, & Brown, 2009). Due to these negative impacts on the child as well as the current emphasis on improving student achievement in the United States, school-based mental health personnel (e.g., school counselors, school psychologists, school social workers) are increasingly assuming an ecological approach in an attempt to foster partnerships between the school, family, and community to address the needs of families of children with disabilities receiving special education services. It is thought that by meeting families’ needs within the home and community will increase FQOL as well as the quality of life of the student, thereby increasing the likelihood that children receiving special education services will be able to succeed at school (Griffin & Steen, 2010). However, limited research about FQOL exists that includes parents of children with disabilities within school settings and therefore very little is known about FQOL among parents of children receiving special education services.

Parental Stress

Researchers have found that parents of children with disabilities have significantly higher levels of stress than parents of typically developing children (Dellve, Samuelsson, Tallborn, Fasth, & Hallberg, 2006; Hauser-Cram et al., 2001). Several
factors (e.g., child care) have been identified to contributing to this increased level of stress for these parents. For instance, the increasing child care demands associated with raising a child with a disability (Baker et al., 2003; Fidler et al., 2000) and parental concerns about their child’s future, the child’s ability to function independently, and the permanent state of the disability may attribute to higher levels of parental stress (Pisula, 2007). Elevated levels of maternal stress also have been linked to mothers’ perceptions of being isolated from parents of typically developing children and the inadequate support from their spouse (Glenn, Cunningham, Poole, Reeves, & Weindling 2009).

Researchers have indicated that parental stress levels may be impacted by the presence and intensity of a child’s behavior problems more than other disability related characteristics (e.g., intellectual disability) (Baker et al., 2003; Hodapp et al., 1997). Hassel and colleagues (2005) administered self-report questionnaires to mothers of children with comorbid intellectual disabilities and maladaptive behaviors ($N = 46$). They discovered that overall parental stress levels were more related to the frequency and intensity of their child’s behavioral difficulties rather than their intellectual limitations. In another study, 60 parents of children with genetic disorders (i.e., Down syndrome, Williams syndrome, Smith-Magenis syndrome) completed questionnaires and found that the strongest predictor of parental stress was the severity the child’s maladaptive behavior (Fidler et al., 2000). Hauser-Cram’s and colleagues’ (2001) found similar results in their study of parents ($N = 183$) of children with disabilities (i.e., Down syndrome, motor impairment, and developmental delay). They found that behavior problems of children with disabilities predicted parental stress more than other disability related characteristics (e.g., intellectual disability, physical disability, developmental delays). Additional
findings from this study indicated that parental stress levels increased over time, and by the child’s 10th birthday, four times as many parents of children with severe behavioral problems were more likely to score in the clinical range for stress than parents of typically developing ten-year-olds (Hauser-Cram et al., 2001).

Parents of children with particular types of disabilities (e.g., autism spectrum disorders) have shown higher levels of parental stress when compared to other parents of children with disabilities due to maladaptive behaviors that are commonly observed among children with autism spectrum disorders (Kasari & Sigman, 1997; Tomanik, Harris, & Hawkins, 2004). Kasari and Sigman (1997) utilized self-report questionnaires with parents of children with autism ($n = 28$), mental retardation ($n = 26$), and typically developing children ($n = 28$) and found that parents of children with autism reported the highest levels of parental stress. Tomanik and colleagues (2004) utilized self-report measures to examine the relationship between child behavioral difficulties and maternal stress among mothers ($N = 60$) of children with a pervasive developmental disorder and found that child maladaptive behaviors associated with autism spectrum disorders contributed significantly to elevated levels of maternal stress.

**Socioeconomic Status and Childhood Disability**

The number of children with disabilities living in poverty (low SES) is disproportionate to the number of typically developing children with recent data approximating that 28% of children with disabilities are being raised in poverty whereas only 16% of children without disabilities live in poverty (U.S. Census Bureau, 2006). Numerous risk factors for the development of childhood disabilities related to low socioeconomic status have been identified, including in the pre-term delivery and low
birth weight (Leonard & Wen, 2002) as well as increased risk for exposure to
environmental toxins, infections, and accidents (Bradshaw, 2001). Families of low SES
raising children may lack access to resources (e.g., medical care, health insurance) that
may further put their child at risk for developing a disability (Lustig & Strauser, 2007).
The relationship between poverty status and childhood disability was evident in
Rosenberg and colleagues’ (2008) study of 19,150 parents which indicated that by two
years of age, children residing in poverty were more likely to present with developmental
delays than children whose families were above the poverty level.

Low SES has been attributed to two distinct types of childhood disabilities,
intellectual disabilities (Bigelow, 2006; Bradley, Thompson, & Bryson, 2002) and
behavior disorders (Prochnow & DeFronzo, 1997). For instance, Emerson and Hatton
(2007) analyzed cross-sectional data collected from parents of typically developing
children and children with disabilities ($N = 12,160$) and found that children with
intellectual disabilities were more likely to reside in families of low SES. Low SES has
been referred to as a possible cause of intellectual disabilities attributed to environmental
and social hazards that may impede the intellectual development of children (Leonard &
Wen, 2002). Low SES also may be a factor in the development of behavior disorders in
children due to increased exposure to domestic abuse, violence, and inadequate
parenting/childcare (Kaiser & Rasminsky, 2003). Bigelow (2006) reported that low SES
may contribute to childhood behavioral difficulties such as hyperactivity, inattentiveness,
and conduct problems. This was supported in Emerson and Hatton’s (2007) study of
health and mental health of children ($N = 10,438$) which found that low SES was related
to the development of conduct and emotional disorders.
Low SES status also has been identified as a factor that may impede FQOL by impacting parental relationships and satisfaction with parenting (Scorgie, Wilgosh, & McDonald, 1998; Willoughby & Glidden, 1995). For example, low SES families of children with disabilities have been found to demonstrate lower levels of satisfaction with their parenting role than parents of higher SES (Scorgie, Wilgosh, & McDonald, 1998). In a study of 48 couples of children with developmental disabilities or at-risk for developing a developmental disability, lower family income was more related to marital dissatisfaction than families of higher SES (Willoughby & Glidden, 1995).

**Social Service Supports**

Many parents of children with disabilities utilize social service supports to enhance their FQOL as they meet the demands they face as they care for their child (Schalock, Gardner, & Bradley, 2007). Zuna et al. (2009) defined social service supports as educational, social, behavioral, and health-related activities that are developed to improve outcomes for the individual family. These supports included community services, governmental agencies, private practitioners, and organizations (Schalock et al., 2007) as well as financial assistance to meet the needs of children with disabilities and their families (Braddock, 2007). In a study of families utilizing community services ($N = 30$) findings indicated that families who accessed the most community services had lower levels of stress and were better able to adapt to the challenges they faced in their lives more than families who accessed fewer services (Greeff, Vansteewagen, & Ide, 2006).

Unfortunately, many parents of children with disabilities encounter barriers as they attempt to utilize social service supports to meet the needs of their child. These barriers include difficulty accessing services (Freedman & Capobianco Boyer, 2000) and
lack of satisfaction with services that are provided (Brown, Anand, Fung, Isaacs, & Baum, 2003). Freedman and Capobianco Boyer (2000) found that parents of children with developmental disabilities ($N = 31$) reported difficulties related to initiating social service supports for their family as well as difficulty finding information regarding the types of social services supports that they were eligible to receive. Even when parents of children with disabilities reported that they were able to access social service supports, quite often they were not satisfied with the assistance they received (Brown et al., 2003; Freedman & Capobianco Boyer, 2000). Brown and colleagues (2003) conducted interviews with parents of children with developmental disabilities and discovered that parents reported the lowest satisfaction with disability related services as compared to informal social support, leisure activities, and community activities. Similarly, in a study of 69 families of typically developing children, children with Down syndrome, and children with autism, less than 50% of parents of children with disabilities reported they were satisfied with the support they received from social services (Brown, MacAdam-Crisp, Wang, & Iaocci, 2006).

Financial assistance is a type of social support service that is utilized by many families raising children with disabilities (Allard, Gottlieb, & Hart, 1993). However, parents of children receiving financial assistance have reported feeling dissatisfied with the amount of monies they received and their ability to cover their child’s medical expenses (Parish & Cloud, 2006). Freedman and Capobianco Boyer (2000) conducted focus group interviews among parents raising children with disabilities ($N = 31$) and found that families were dissatisfied with the financial support they received from social services due to the length of time prior to receiving reimbursement for monies spent, and
the requirement that services had to be initially paid for out of pocket.

**Purpose of the Study**

Because the majority of studies of SES, parental stress, satisfaction with services, and FQOL have been conducted within mental health (Davison et al., 2003), medical (Glenn et al., 2009), and clinical settings (Kersch et al., 2006) and educational settings differ from those settings in numerous ways. For example, in an educational setting childhood disabilities are classified according to definitions provided by IDEA (Individuals with Disabilities Education Act) rather than medical definitions or criteria outlined in the DSM-IV-TR (American Psychiatric Association [DSM-IV-TR], 2000). In addition, within an educational setting services are provided based upon an educational perspective. As such, the child’s services, or Individual Education Plan (IEP) are developed to address their educational needs within the school setting with little attention given to life functioning for the majority of students. This study was conducted to examine SES, parental stress, satisfaction with services, and FQOL among parents of children with disabilities receiving special education services within an educational setting. Specifically, this study sought to determine whether differences existed in the sample between parental stress and FQOL depending upon child disability type. It was hypothesized that parents of children with emotional/behavioral disorders and autism would exhibit statistically significantly higher levels of parental stress than parents of children with other types of disabilities (e.g., Hauser-Cram et al., 2001; Tomanik et al., 2004). In addition, parents of children with emotional/behavioral disorders, and autism will report lower FQOL when compared to parents of children with other types of disabilities (Bigelow, 2006; Tomanik et al., 2004). A second aim of this study was to
determine whether relationships existed between SES (as measured by free or reduced lunch (FRL) status and parental stress, satisfaction with services, and FQOL. It was expected that FRL would be positively correlated with parental stress and negatively correlated with satisfaction with social support services (Freedman & Capobianco Boyer, 2000) and FQOL (Scorgie et al., 1998). A final aim of this study was to determine if satisfaction with services and parental stress were significant predictors of FQOL, and whether parental stress moderated the relationship between satisfaction with services and FQOL. It was hypothesized that parental stress and satisfaction with services would be significant predictors of FQOL (Greeff et al., 2006; Pisula, 2007) and parental stress would moderate the relationship between satisfaction with services and FQOL.

**Method**

**Context**

This study was conducted in the Southeast region of the United States in a rapidly growing county that is in transition from rural to suburban. The system educates approximately 12,000 students per year in 16 schools. For the 2009-2010 school year, student demographics for this system were predominately Caucasian (65%), followed by African American (13%), Hispanic (11%), Asian (6%), and Multiracial (4%) and approximately half of the students in the system (51%) qualified for FRL. A total of 1206 students in the system received special education services (11% of total school population).

**Participants**

Parents of children with disabilities ($N = 389$) participated in the study. The children ranged in age from three (preschool) to 12 years of age (fifth grade) ($M = 8.6$, $SD = 2.3$).
The majority of these students were identified as speech/language impaired \((n = 120, 30.8\%)\), followed by significant developmental delay \((n = 88, 22.6\%)\), and specific learning disability \((n = 61, 15.7\%)\). All other disability categories for students preschool through fifth grade were represented as follows: intellectual disability \((n = 29, 7.4\%)\), emotional-behavioral disability \((n = 18, 4.6\%)\), orthopedic impaired \((n = 2, 0.5\%)\), hearing impaired \((n = 3, 0.6\%)\), deaf/hard of hearing \((n = 1, 0.2\%)\), other health impaired \((n = 33, 8.3\%)\), vision impaired \((n = 3, 0.6\%)\), and autism \((n = 31, 7.9\%)\). Two additional special education disability categories, blind and deaf/blind were not represented in the school system for preschool through fifth grade students (M. Thompson, personal communication, August 16, 2010). The educational levels of the parents ranged from no high school diploma \((n = 78, 20\%)\), GED \((n = 135, 34.55\%)\), some college \((n = 100, 25.71\%)\), associate’s degree \((n = 35, 9.09\%)\), bachelor’s degree \((n = 20, 5.19\%)\), and graduate degree \((n = 19, 4.94\%)\). Two parents in the sample did not report their education level. Two hundred and fifty of the parents \((64\%)\) reported their child with a disability received FRL at school. Demographic information is presented in Table 1.
Parent Demographics

<table>
<thead>
<tr>
<th>Marital Status</th>
<th>$n$</th>
<th>% of sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Married</td>
<td>252</td>
<td>64.77%</td>
</tr>
<tr>
<td>Living w/ Partner</td>
<td>21</td>
<td>5.44%</td>
</tr>
<tr>
<td>Divorced</td>
<td>55</td>
<td>13.99%</td>
</tr>
<tr>
<td>Separated</td>
<td>20</td>
<td>5.18%</td>
</tr>
<tr>
<td>Never Married</td>
<td>32</td>
<td>8.29%</td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>51</td>
<td>13.09%</td>
</tr>
<tr>
<td>Female</td>
<td>338</td>
<td>86.91%</td>
</tr>
<tr>
<td>Ethnic Background</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>66</td>
<td>16.80%</td>
</tr>
<tr>
<td>Indian</td>
<td>4</td>
<td>1.03%</td>
</tr>
<tr>
<td>Asian</td>
<td>7</td>
<td>1.81%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>30</td>
<td>7.75%</td>
</tr>
<tr>
<td>White</td>
<td>280</td>
<td>71.83%</td>
</tr>
<tr>
<td>Other</td>
<td>2</td>
<td>0.52%</td>
</tr>
<tr>
<td>Educational Background</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Diploma</td>
<td>78</td>
<td>20.00%</td>
</tr>
<tr>
<td>GED</td>
<td>135</td>
<td>34.55%</td>
</tr>
<tr>
<td>Some College</td>
<td>100</td>
<td>25.71%</td>
</tr>
<tr>
<td>Associate Degree</td>
<td>35</td>
<td>9.09%</td>
</tr>
<tr>
<td>Bachelor Degree</td>
<td>20</td>
<td>5.19%</td>
</tr>
<tr>
<td>Graduate Degree</td>
<td>19</td>
<td>4.94%</td>
</tr>
<tr>
<td>Income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;$13,999</td>
<td>83</td>
<td>21.35%</td>
</tr>
<tr>
<td>$14,000 - 19,999</td>
<td>50</td>
<td>12.97%</td>
</tr>
<tr>
<td>$20,000 - 24,999</td>
<td>26</td>
<td>6.76%</td>
</tr>
<tr>
<td>$25,000 - 29,999</td>
<td>35</td>
<td>9.19%</td>
</tr>
<tr>
<td>$30,000 - 34,999</td>
<td>24</td>
<td>6.22%</td>
</tr>
<tr>
<td>$35,000 - 39,999</td>
<td>22</td>
<td>5.68%</td>
</tr>
<tr>
<td>$40,000 - 49,999</td>
<td>42</td>
<td>10.81%</td>
</tr>
<tr>
<td>$50,000 - 59,999</td>
<td>34</td>
<td>8.65%</td>
</tr>
<tr>
<td>$60,000 - 69,999</td>
<td>17</td>
<td>4.32%</td>
</tr>
<tr>
<td>&gt;$70,000</td>
<td>55</td>
<td>14.05%</td>
</tr>
</tbody>
</table>

Procedure

A list of all children in preschool through fifth grade that were receiving special education services at the time this study was generated by the school system. Packets were prepared for each child’s parents and contained questionnaires designed to assess FRL, parental stress, satisfaction with social service supports, and FQOL. To ensure confidentiality, packets were labeled only with the child’s Testing Identification Number (TIN) that was assigned to the student by the state upon enrollment in the school system.
The cover letter from one of the system’s school psychologists described the reason for
the study, asked for parental participation, and explained that involvement was voluntary.
A packet was sent home with each child once a week for three consecutive weeks and
parents were asked to complete the questionnaires and return them to their child’s school
in a sealed envelope provided by the school system. Once the parent’s completed packet
was returned, additional packets were not sent home. Completed packets were then
forwarded to one of the system’s school psychologists at the centralized board office. The
primary researcher was employed with the system during administration of the surveys.
The system released the data to the university researchers to conduct secondary data
analysis.

A total of 840 packets containing measures to assess family demographics, FRL,
satisfaction with social services, parental stress, and FQOL were sent home with each
student receiving special education services (preschool through fifth grade) to be
completed by their parents. Three-hundred and eighty nine packets were returned
yielding a 46% response rate. Listwise deletion, a method commonly utilized in
educational research to address the problem of missing data (Peugh & Enders, 2004), was
utilized. As a result, packets containing missing data on any of the variables assessed
(i.e., SES, satisfaction with social services, parental stress, and FQOL) were excluded
from analyses. Therefore, a total of 376 Parental Stress Scales (PSS) (96.1% of the
sample), 374 FQOL Surveys (96.1% of the sample), and 135 Client Satisfaction
Questionnaires (CSQ-8) (35% of the full sample) were utilized in the analyses. Only
parents who reported receiving social support services outside of the school system ($n = 135$) completed the CSQ-8.
In order to address the first hypothesis, that parents of children with emotional/behavioral disorders and autism would exhibit statistically significantly higher levels of parental stress than parents of children with other types of disabilities and statistically significantly lower FQOL when compared to parents of children with other types of disabilities, it was necessary to create groupings of parents based upon their child’s disability type. Special education research has been described as “the hardest of the hardest-to-do science” (Odom et al., 2005, p. 139) due to the significant challenges faced by researchers as they attempt to create groups for data analysis. Specifically, the heterogeneity of the characteristics of the students can be problematic when attempting to create groups (Odom et al., 2005). The first hypothesis of this study sought to examine differences between variables based on child disability. The groups were combined according to similarities between characteristics of the disabilities, which is commonly observed in research conducted in clinical settings (e.g., Pisula, 2007; Urbano, Hodapp, & Floyd, 2007). Descriptive analyses for the child disability groups that shared similar characteristics were reviewed. If groups that shared characteristics were notably different on one of the three dependent variables (i.e., parental stress, satisfaction with social services, FQOL) the groups were not combined. For example, maladaptive behaviors are salient features of both emotional/behavioral disorders (Georgia Department of Education, 2007) and autism (American Psychiatric Association [DSM-IV-TR], 2000). Descriptive statistics for the sample revealed that parents of children with emotional/behavioral disorders reported more satisfaction with social service supports than was reported by parents of children with autism. Therefore, emotional/behavioral disorders and autism were not combined for analyses purposes in this study. The final
disability groups created for analysis purposes were: autism \((n = 31)\), emotional-behavioral disorders \((n = 18)\), general medical conditions (combination of other health impaired, deaf/hard of hearing, vision impaired; \(n = 42\)), significant developmental delay \((n = 88)\), intellectual disability \((n = 29)\), speech/language impaired \((n = 120)\), and specific learning disability \((n = 61)\).

**Measures**

**Demographic Questionnaire.** Parents completed a demographic questionnaire that included 14 multiple choice and 4 fill in the blank questions regarding family composition, parental education level, FRL status, receipt of financial assistance (e.g., Medicaid, Social Security Income, food stamps), types of social services utilized by the family for their child with a disability (i.e., occupational therapy, physical therapy, speech therapy, medical support, private counseling, and psychiatric support), and frequency at which parents utilized those services. Parents were asked to list any additional services they received that were not specifically identified on the questionnaire. FRL status has been utilized in educational research as a measure of family SES (e.g., Hogrebe & Tate, 2010) and it was utilized in the current study as the measure of SES as well.

**Parental Stress Scale (PSS; Berry & Jones, 1995).** The PSS was developed to measure stress associated directly with the demands of parenting, unlike other measures of stress which have been criticized as confounding parental stress with marital or family stress (Berry & Jones, 1995). Parents respond to each of the 18 items using a 5-point Likert scale ranging from 1 = strongly disagree to 5 = strongly agree. Items are then summed to obtain an overall score. Berry and Jones established support for the reliability
of the PSS in studies of parents of typically developing children and parents of children with disabilities. Results of those studies indicated that the PSS correlated in expected directions with other measures of general stress and parenting stress (Berry & Jones, 1995). For example, Berry and Jones assessed the validity of the PSS by comparing it to the Perceived Stress Scale (Cohen, Kamarck, & Mermelstein, 1983), a measure of general stress, and obtained significant correlations for parents of typically developing children \( r(233) = .50; p < .01 \) and parents of children with disabilities \( r(51) = .41, p < .01 \). The PSS was also compared to the Parenting Stress Index (PSI), one of the only other measures “of any direct relevance to parental stress” (Berry & Jones, 1995, p. 464). The correlation between the PSS and the Total Parenting Stress Index of the PSI was \( .75, p < .01 \). The validity of the PSS was determined for the total sample \( (\alpha = .83) \) with item-whole correlations ranging from .27 to .59 \( (M = .43) \) (Berry & Jones, 1995). Disparity between item-whole correlations was expected and occurred which the authors attributed to the broadness of parental stress. Test – retest correlation of .81 was reported after a six-week period. Internal consistency reliability for the current sample was adequate \( (\alpha = .752) \). Mean scores for the PSS for the current sample is presented in Table 2.
Table of Means, Standard Deviations, and Variances

<table>
<thead>
<tr>
<th>Group</th>
<th>PSS Mean</th>
<th>PSS SD</th>
<th>PSS Var.</th>
<th>FQOL Mean</th>
<th>FQOL SD</th>
<th>FQOL Var.</th>
<th>CSQ-8 Mean</th>
<th>CSQ-8 SD</th>
<th>CSQ-8 Var.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU</td>
<td>40.53</td>
<td>6.45</td>
<td>41.65</td>
<td>45.84</td>
<td>17.82</td>
<td>317.67</td>
<td>16.31</td>
<td>3.47</td>
<td>12.06</td>
</tr>
<tr>
<td>EBD</td>
<td>42.39</td>
<td>8.64</td>
<td>74.72</td>
<td>46.94</td>
<td>12.72</td>
<td>161.82</td>
<td>18.44</td>
<td>5.66</td>
<td>32.03</td>
</tr>
<tr>
<td>GM</td>
<td>39.63</td>
<td>8.78</td>
<td>77.08</td>
<td>42.90</td>
<td>14.73</td>
<td>217.10</td>
<td>14.52</td>
<td>3.87</td>
<td>14.99</td>
</tr>
<tr>
<td>ID</td>
<td>37.97</td>
<td>7.15</td>
<td>51.11</td>
<td>38.69</td>
<td>11.20</td>
<td>125.44</td>
<td>12.67</td>
<td>3.74</td>
<td>14.00</td>
</tr>
<tr>
<td>SDD</td>
<td>39.86</td>
<td>8.31</td>
<td>69.13</td>
<td>44.80</td>
<td>16.69</td>
<td>278.56</td>
<td>14.58</td>
<td>4.45</td>
<td>19.81</td>
</tr>
<tr>
<td>SLD</td>
<td>39.45</td>
<td>8.39</td>
<td>70.34</td>
<td>41.62</td>
<td>16.15</td>
<td>260.79</td>
<td>16.44</td>
<td>3.81</td>
<td>14.53</td>
</tr>
<tr>
<td>SI</td>
<td>37.80</td>
<td>8.11</td>
<td>65.71</td>
<td>40.13</td>
<td>11.81</td>
<td>139.37</td>
<td>14.70</td>
<td>4.99</td>
<td>24.93</td>
</tr>
</tbody>
</table>

Note: AU = autism, EBD = emotional-behavioral disorder, GM = general medical condition, ID = intellectual disability, SDD = significant developmental delay, SLD = specific learning disability, SI = speech impaired

Client Satisfaction Questionnaire-8 (CSQ-8; Larsen, Attkisson, Hargreaves, & Nguyen, 1979). The CSQ-8 is an eight-item questionnaire of general satisfaction with services. It was developed “to provide a brief, standardized assessment procedure suitable for use in a variety of service settings (Roberts, Attkisson, & Mendias, 1984, p. 385).

Participants respond to each item using a 5-point Likert scale ranging from 0 = very dissatisfied to 4 = very satisfied. The scores are summed to provide a single measure of client satisfaction. Psychometric properties of the CSQ-8 are sound. Internal reliability has been established (α = .87 and .86) and construct validity has also been observed (r = .6 to .8) when compared to other measures of service satisfaction (Attkisson & Greenfield, 1994; Larsen et al., 1979). The CSQ-8 has been found appropriate for use with different ethnic populations (i.e., Caucasian, African American, Mexican, and other Hispanic origins) (Roberts et al., 1984). Internal consistency reliability for the current
sample was good ($\alpha = .873$). Mean scores for the CSQ-8 for the current sample is presented in Table 2.

**Family Quality of Life Survey (FQOLS; Turnbull et al., 2004).** The FQOLS was developed by the Beach Center research program of the University of Kansas. It is a 25-item assessment of five factors related to FQOL; family interaction (6 items), parenting (6 items), emotional well-being (4 items), physical/material well-being (5 items), and disability related support (4 items). Each item is scored on a Likert scale ranging from $1 = \text{very dissatisfied}$ to $5 = \text{very satisfied}$. The item scores are summed to provide a single measure of FQOL. Single-factor measurement models for each factor had good to excellent fit (Poston, Summers, & Turnbull, 2006). Excellent fit was also observed for the overall scale structure for importance and satisfaction (Importance subscale-only model: $\chi^2(5) = 4.06, p = .54$; Importance item-only model: $\chi^2(270) = 644.63, p < .01$; Satisfaction subscale-only model: $\chi^2(5) = 9.13, p = .10$; Satisfaction item-level model $\chi^2(270) = 439.24, p < .001$) (Poston et al., 2006). Significant correlations were observed between the Family APGAR, a measure of family functioning, and the corresponding Family Interaction subscale of the FQOLS ($r(87) = .68, p < .001$) as well as the Family Resource Scale, a measure of family resources, and the corresponding FQOLS Physical Well-Being subscale ($r(58) = .60, p < .001$) (Poston et al., 2006). Test-retest reliability correlations were significant at the 0.1 level or beyond ($df$ ranged from 59 to 63) (Poston et al., 2006). The focus of the current study was overall FQOL. Therefore, only participants’ overall FQOL scores were used in the analyses. Internal consistency reliability for the current sample was excellent ($\alpha = .958$). Mean scores for the FQOLS for the current sample is presented in Table 2.
Results

To test the first research question a MANCOVA was conducted to evaluate whether parents of children with different disability types reported significantly different levels of parental stress and FQOL while controlling for the age of the child and FRL status. A priori power for the MANCOVA based upon the obtained sample size, disability groupings, and covariate (age of child) was .954 (Erdfelder, Faul, & Buchner, 1996). Mean scores for the disability groups ranged from No significant differences were observed between parental stress levels and FQOL between the child disability types, Wilk’s Lambda = .967, $df = 12$, $F = .985$, $p = .461$. MANCOVA results are presented in Table 3.

Table 3

<table>
<thead>
<tr>
<th>Effect</th>
<th>Wilks Lambda</th>
<th>$F$</th>
<th>$df$</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td></td>
<td>648.049</td>
<td>2</td>
<td>.000</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td>.192</td>
<td>2</td>
<td>.825</td>
</tr>
<tr>
<td>Income</td>
<td></td>
<td>.468</td>
<td>2</td>
<td>.627</td>
</tr>
<tr>
<td>Disability Type</td>
<td></td>
<td>.985</td>
<td>12</td>
<td>.461</td>
</tr>
</tbody>
</table>

Note: *$p < .05$.

In order to address the second hypotheses a Point Biserial correlation was conducted to determine if FRL was related with FQOL and satisfaction with social services and positively correlated with parental stress. As shown in Table 4, the correlations between FRL and FQOL ($r = .021$, $p = .686$), parental stress ($r = -.089$, $p = .082$), and satisfaction with services ($r = -.026$, $p = .770$) suggest no relations. Point
Biserial correlation results are provided in Table 4.

Table 4

Point Biserial Correlations for FRL and Parental Stress, Satisfaction with Services, and FQOL

<table>
<thead>
<tr>
<th>Correlated Variable</th>
<th>FRL</th>
<th>Parental Stress</th>
<th>FQOL</th>
<th>Sat. w/ Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRL</td>
<td>-0.89</td>
<td>0.21</td>
<td>-0.026</td>
<td></td>
</tr>
<tr>
<td>Parental Stress</td>
<td></td>
<td>-.314***</td>
<td></td>
<td>.087</td>
</tr>
<tr>
<td>Sat. w/ Services</td>
<td></td>
<td></td>
<td></td>
<td>-.184*</td>
</tr>
<tr>
<td>FQOL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: FRL = free or reduced lunch. *p < .05. **p < .01. ***p < .000.*

Satisfaction with services and parental stress were then included in a regression equation to predict FQOL as a first step in determining whether or not parental stress was a moderator between satisfaction with services and FQOL. The results yielded a significant model ($R^2 = .135$, $F = 10.323$, $p = .000$) (Table 5). Satisfaction with services nearly reached statistical significance in predicting FQOL ($\beta = .156$, $t = 1.924$, $p = .057$) while parental stress reached significance at $p = .000$ ($\beta = .320$, $t = 3.933$).
Linear Regression Analysis for Satisfaction with Services and Parental Stress in Predicting FQOL

<table>
<thead>
<tr>
<th>Model</th>
<th>$R$</th>
<th>$R^2$</th>
<th>Change in $R^2$</th>
<th>Std. Error of Estimate</th>
<th>$\beta$</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>.368</td>
<td>.135</td>
<td>.135</td>
<td>11.704</td>
<td>-.320</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When the interaction between satisfaction with social services and parental stress was included in the model, parental stress was not found to moderate the relation between satisfaction with services and FQOL ($\beta = -.824, t = -1.479, p = .142$). Linear regression analysis for the interaction between satisfaction with services and parental stress in predicting FQOL is provided in Table 6.

Table 6

Linear Regression Analysis for Interaction between Satisfaction with Services and Parental Stress in Predicting FQOL

<table>
<thead>
<tr>
<th>Model</th>
<th>$R$</th>
<th>$R^2$</th>
<th>Change in $R^2$</th>
<th>Std. Error of Estimate</th>
<th>$\beta$</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>.387</td>
<td>.149</td>
<td>.014</td>
<td>11.652</td>
<td>.824</td>
<td>.142</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Discussion

The purpose of this study was to investigate the relationships between parental stress, SES, satisfaction with social services, and FQOL among parents of children with disabilities within a school setting. It provided several unique contributions to the existing literature. This study appeared to be one of the first to examine parental stress,
SES, satisfaction with social services, and FQOL among a sample of parents raising children with disabilities that received special education services. This study also differed from previous research in that it attempted to group parents according to salient features of their child’s disability and compared parents raising children with disabilities across a range of disability types. This was atypical as previous studies have either grouped parents of children with disabilities together regardless of their child’s type of disability (e.g., autism spectrum disorders, emotional/behavioral disorders, medical conditions, speech delays, birth defects) (Rogers, 2007) or examined differences between a smaller number of disability types (e.g., autism and Down syndrome) (Pisula, 2007). Another unique aspect was that the child disability categories utilized in this study were based upon special education disability criteria determined by each state whereas the majority of previous research included disabilities that were clinically (Pisula, 2007) or medically defined (Honberg, Kogan, Allen, Strickland, & Newacheck, 2009). Yet another unique aspect of this study is the numerous types of childhood disabilities represented in the sample and the wide range of severity (i.e., mild to severe). It may be that the severity of the disabilities was more normally distributed in this sample than in studies conducted in mental health, medical, and clinical settings in which the samples may represent parents of children with the most severe disabilities. Twenty-percent of the parents in the current sample reported having no high school diploma or the equivalent (i.e., General Education Development Diploma) and 34.32% reported their annual household income was less than $20,000, illustrating that this study represented a fairly large proportion of parents with little education and financial means raising children with disabilities. A final unique contribution of this study is that the sample consisted of 51 fathers (19% of the total
sample), which is atypical since the majority of research conducted in the areas of parental stress, satisfaction with social services, and FQOL tends to include mothers more so than fathers.

A unique contribution of this study was that findings were inconsistent with the vast majority of research that has been conducted within mental health (Davison et al., 2003), medical (Glenn et al., 2009), and clinical fields (Kersch et al., 2006). The first hypothesis in this study was two-fold. First, it was expected that parents of children with emotional/behavioral disorders and autism would present significantly higher levels of parental stress than parents of children with other disabilities (Hauser-Cram et al., 2001; Tomanik et al., 2004) due to the presence of maladaptive behaviors. Finding no differences of parental stress between childhood disability types was inconsistent with previous research findings (e.g., Hassall, Rose, & McDonald, 2005; Kasari & Sigman, 1997) in which the presence of child maladaptive behaviors contributed significantly to elevated parental stress. A possible explanation for none of the previous research samples included parents of children with disabilities obtained from within a school setting. This suggests that, for this sample, parental stress levels for parents of children with disabilities receiving special education services were relatively consistent regardless of child disability type and the presence of maladaptive behaviors. While inconsistent with previous research examining differences in parental stress levels based on child disability type, parental stress levels for each disability type in the current sample were consistent with results obtained from the normative sample (Berry & Jones, 1995; Caldwell, Horne, Davidson, & Quinn, 2007). Second, it was predicted that parents of children with emotional/behavioral disorders and autism, would report lower FQOL when compared to
parents of children with other disabilities (Bigelow, 2006; Emerson & Hatton, 2007).
This hypothesis was not supported in the current study. These findings do not necessarily imply the parents of children with emotional/behavioral disorders and autism receiving special education services in this sample experienced lower levels of stress than previously reported in the literature. It is possible the parents of children with other types of disabilities (e.g., learning disability, speech/language impaired, specific learning disability, etc.) were suffering from stress at levels consistent with that of parents of children with autism and emotional/behavioral disorders. This may be explained by the fact that researchers have found that utilization of social service supports was effective in decreasing parental stress (Greeff et al., 2006). However, only approximately one-third of the sample reported utilizing social support services to assist them in meeting their child’s needs. This lack of social support services may have contributed to increasing parental stress for all child disability types to levels similar to that of parents of children with disabilities characterized by maladaptive behaviors. Another possible explanation for the discrepancy between the literature and the current study’s lack of statistically significant findings of parental stress and FQOL across disability types may be attributed to the manner in which the various disability types were grouped for analysis purposes. In the current study, the groups were determined based upon similarities between the disabilities (Harty, Alant, & Uys, 2006) as well as similarities and differences between the levels of parental stress, FQOL, and satisfaction with social services across disability types. As such, group sizes were unequal. The smaller groups would have been more susceptible to outliers which may have impacted the means included in the analyses and thereby the significance of the overall results of the MANCOVA.
The second hypothesis posited that FRL status would be positively correlated with parental stress and negatively correlated with satisfaction with social services and FQOL. Results from this sample of parents of children with disabilities receiving special education services failed to support this hypothesis. This suggests that for this sample of parents of children with disabilities receiving special education services, parental stress levels, satisfaction with services, and FQOL do not appear to be related to SES, which contradicts previous research findings (e.g., Monastersky, 2008). Previous research reflects several connections between SES, satisfaction with services, parental stress, and FQOL. Specifically, SES impacts a family’s ability to utilize social support services (e.g., McManus, McCormick, Acevedo-Garcia, Ganz, & Hauser-Cram, 2009) and a primary goal of social support services is to assist families in caring for their child with a disability (e.g., Schalock et al., 2007), reduce parental stress (e.g., Greeff, Vansteenhoven, & Ide, 2006), and increase FQOL (e.g., Turnbull, Turnbull, Brown, & Turnbull, 2004). The sample in the current study differed from those described in the literature in that the children, regardless of SES, were receiving support for their disability through the local school system. It may be that the parents’ satisfaction of the services provided for their within the school system off-set the expected relationships between SES, satisfaction with services, parental stress, and overall FQOL that have been observed in samples obtained from medical, clinical, and settings.

Results of the linear regression analysis supported the association between parental stress and FQOL, meaning that for this sample, parental stress had considerable impact on FQOL, with higher levels of parental stress associated with lower FQOL for this sample. As for satisfaction with social services in the prediction of FQOL, results of
the linear regression analysis nearly reached statistical significance, yet results were not in the direction that was expected. Specifically, these results suggested that higher satisfaction with social service support was associated with lower FQOL for this sample. It is proposed that families with low quality of life may be more appreciative of social services they receive and as a result report feeling more satisfied with the assistance while families with better FQOL may have higher expectations regarding outcomes and as a result their satisfaction with social services may be lower if those expectations are not realized. Combined, these results implied that for this study both parental stress and to a lesser degree, satisfaction with social services, are contributors in the prediction of FQOL which is consistent with previous literature (e.g., Fidler et al., 2000; Glenn et al., 2009; Pisula, 2007).

This study appeared to be the first of its kind to explore the moderating effect of parental stress on satisfaction with social services and FQOL. It was hypothesized that parental stress would moderate the connection between satisfaction with social services and FQOL yet results of the interaction effect were not statistically significant. This suggested that for this sample of parents of children with disabilities receiving special education services, parental stress did not moderate the connection between satisfaction with social services and FQOL.

Limitations and Future Research

This study had several limitations that may be addressed through future research. First, this study appeared to be one of the first to examine SES, parental stress, satisfaction with social services and FQOL within a school setting. Future research is needed to further explore these variables within school settings in an attempt to replicate
these results. In addition, future research into parental stress, SES, satisfaction with social services and FQOL within school settings may result in identification of additional characteristics of families of children with disabilities who are not utilizing social support services and are therefore not included in studies based within other settings (e.g., medical, clinical). This may be helpful in determining whether or not parents of children with disabilities sampled within school settings differ from parents sampled in other settings.

This study was conducted in the Southeast region of the United States in a rapidly growing county that is in transition from rural to suburban. Therefore it may not generalize to parents of children with disabilities in different regions of the United States or other countries. In addition, the fact that the county is undergoing such rapid growth makes it unique in ways that may have a direct impact on the amount and availability of social support services for these families. As the county has expanded it may be that the social support services have failed to keep up with the increasing number of families of children with disabilities and may help to explain the low percentage of parents of children with disabilities reporting the use of social support services. Future research could address this limitation by exploring SES, parental stress, satisfaction with social support services, and FQOL in various types of communities (e.g., rural, suburban, rural, affluent, impoverished) across the nation and within other countries.

In this study family SES was measured by whether or not the child with a disability received FRL at school. FRL status is determined by multiple factors (i.e., number of people in household, income, receipt of food-stamps) (Georgia Department of Education, 2010), and as such may not accurately depict a family’s true SES. In the
future a study in which SES was measured as a continuous variable may provide additional insight into the relationships between family SES, parental stress, satisfaction with social services, and FQOL.

Finally, only parents of children with disabilities participated in this study. Therefore, it may be helpful to conduct a similar study in the future that includes parents of children with disabilities and parents of typically developing children within a school setting. A study including both parent groups may provide information regarding the magnitude of differences between SES, parental stress, and FQOL with the expectation that significant differences may exist between parents of typically developing children and children with disabilities. Specifically, parents of children with disabilities that receive special education services may be found to experience higher parental stress, lower SES, lower satisfaction with social services, and lower FQOL than parents of typically developing children.

**Implications for School-Based Mental Health Service Providers**

The present study points to several implications for mental health service providers working within school settings. First, mental health service providers need to be aware of the ways in which families’ parental stress and FQOL are impacted as they raise a child with a disability so they can effectively meet their needs. This study suggested parents of children receiving special education services in schools are more similar than different regarding parental stress and FQOL and will likely benefit from similar types of support.

Second, researchers have found that parents raising children with disabilities, regardless of the type, experience higher levels of stress than parents of typically
developing children (e.g., Dellve et al., 2006; Fidler, Hodapp, & Dykens, 2000; Vermaes, Janssens, Mullaart, Vinck, & Gerris, 2008). As such, mental health providers working in schools may wish to ensure parents of children with all types of disabilities by alleviating parental stress whenever possible. An area in which school mental health providers could have a direct impact is in alleviating parental stress and anxiety related to school-related issues. This could be accomplished through serving as a liason between parents of children with disabilities and the school (Hess, Molina, & Kozleski, 2006) to foster communication and providing information regarding the special education system (e.g., referral for special education, eligibility for special education services, development of Individualized Education Plans, informed consent procedures, and due process rights).

A final implication for school-based mental health service providers is to be aware that many families of students with disabilities may not be utilizing social service supports in the community. Mental health service providers in schools may wish to identify families not receiving social service supports and educate them about the types of services are available in the community. If parents express interest in accessing those social services, school mental health providers could assist parents in contacting those agencies and help facilitate entry into those systems.
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