The Moderation Effect of Social Support in the Relationship between Child Maltreatment and School Achievement

Rui Lopes
Psychology Department, Lisbon University Institute - ISCTE-IUL
Avenida das Forcas Armadas, 1649-026 Lisbon, Portugal
Tel: 351-2-1790-3216 E-mail: ruilopes79@hotmail.com

Carla Moleiro (Corresponding author)
Psychology Department, Lisbon University Institute - ISCTE-IUL
Avenida das Forcas Armadas, 1649-026 Lisbon, Portugal
&
Centre for Psychological Research and Social Intervention – CIS
Tel: 351-2-1790-3216 E-mail: carla.moleiro@iscte.pt

Received: August 31, 2011 Accepted: October 9, 2011 Published: December 30, 2011
doi:10.5539/jedp.v1n1p74 URL: http://dx.doi.org/10.5539/jedp.v1n1p74

Abstract
This study investigated the relationship between child maltreatment, school achievement and social support, by exploring the adaptation of the stress buffering model of social support. Data was collected on 402 children from 5th - 9th grades (383 without history of child abuse and 64 with history of child abuse). An adapted version of the Social Support Appraisals Scale (Dubow & Ullman, 1989; Dubow et al., 1991) was used to analyze the role of social support in the relationship between child maltreatment and school achievement. Results indicated that abused children scored lower in Language and Math, and had more grade retentions than children without history of abuse. Findings also revealed that perceived social support is a promoter of school achievement. Results also indicated social support as a moderator between child abuse and school achievement, although only partially in the direction of the adaptation of the stress buffering model. Implications for school professionals are discussed.

Keywords: Child maltreatment, Social support, School achievement, Moderation

1. Introduction
The consequences of child abuse are well documented (e.g., Finkelhor, 1995; Hildyard & Wolfe, 2002; Lowenthal, 1998; Tyler, Johnson & Brownridge, 2008) and despite possible identical consequences for any kind of abuse, different children may show different psychological and behavioral profiles (Barnett, Manly & Cicchetti, 1993). Cicchetti and Toth (2005) highlighted a few possible consequences of child abuse, namely, difficulties in emotional regulation, in developing secure attachment relations, in establishing positive peer relations, in school adaptation and achievement, and in identity development and self-esteem.

School adjustment and academic performance constitute an area of concern and research among those that provide care for maltreated children (Kinard, 2001). One factor that seems to influence school adjustment is social support (Demaray, Malecki, Davidson, Hodgson & Rebus, 2005). Social support is defined as the assistance and protection given to individuals (Langford, Bowsher, Maloney & Lillis, 1997). The relationship between social support and children’s behavioral and school adjustment has been studied concerning stressful life events. Dubow and Tisak (1989) found that a positive perceived social support and problem solving skills mediate the relationship between children’s stressful life events and their school competencies and behavior.

Individual’s social contexts can provide either stress or support, and different individuals show different receptiveness and ability in their use of available social support (Kaul & Lakey, 2003; Lakey & Cassady, 1990).
In fact, stress in life events can result in the deterioration of perceived social support which, in turn, relates with increased psychological suffering. Several authors (e.g., Frazier, Tix, Klein & Arikian, 2000) have found that social support can be of use in critical moments because it protects individuals from the adverse effects of stress. Social support was already found to attenuate the stress caused by child abuse (Runz & Schallow, 1997). However, the results found in some studies also suggest that abused children present lower levels of perceived social support (e.g., Muller, Gragtmans & Baker, 2008). On the other hand, social support is beneficial for the adjustment of at-risk children, as well as for abused children’s development and psychological wellbeing (e.g., Demaray & Malecki, 2002b), possibly making a positive difference in their adaptability and resilience (Jafee, Caspi, Moffitt, Polo-Tomás, Taylor, 2007).

Studies have found that abused children’s perceptions of support, as well as its benefits, vary according to its sources. For example, Ezzell, Swenson and Brondino (2000) found that physically abused children indicated their family, peers and teachers as sources of high social support. These authors concluded that, even in the presence of parental physical abuse, children may still feel that they are an important part of their family and that some members of the families care for them. Furthermore, both family and peer support (but not teacher support) appeared to predict children’s symptomatology (anxiety, depression and aggressiveness). On the other hand, Kinard (1999, 2001) found a relationship between child abuse, school achievement and psychosocial resources available for children, such as social support. The results showed that abused children have poorer school achievement, as well as lower perceived social support, particularly from their mothers. Perceived social support from their friends and teachers did not reveal itself to be a significant predictor of school results. The relations found suggest the importance and need to intervene to improve school results and to develop abused children’s and their families’ social networks, as a way of promoting their adjustment.

Despite the extant literature in the field of child abuse (cf. Cicchetti & Toth, 2005) and social support (cf. Langford et al., 1997), there lacks investigation that relates these two concepts and, specifically, that studies them in the scope of children’s school achievement. This investigation intended to explore the relationship between child abuse, social support and school achievement, more specifically the adaptation of social support as a moderator of life stress model (see Frazier, Tix, Klein & Arikian, 2000) to the specific context of child abuse and school achievement.

2. Method

2.1 Participants

A total of 402 children and adolescents from 5th to 9th grade from a public school in Lisbon, Portugal, participated in the study. Age range was comprehended between 9 and 18 years old (M = 12.76; SD = 1.96). In terms of gender, 51% (n = 205) were boys and 49% (n = 197) were girls. Regarding ethnic origins, the majority was of Portuguese origin (60.9%), followed by African (18.2%), Brazilian (9.5%), Asian (3.0%), Central European (2.5%), Eastern European (2.0%) and South American (1.0%). Socio-economic status was low for 43% of the families (n = 174), low average for 13% (n = 51) and high average or above for 44% (n = 177).

The participants were divided in two groups. In one group, participants were children and adolescents without history of abuse throughout their growth and development (n = 338; 84.1%), and in the other, participants were children and adolescents with a history of abuse (n = 64; 15.9%). All participants of the first group lived with their families. Participants of the second group either lived with their families or were followed by child protection services (n = 17; 4.2%), or lived with their families having been referred to child protection services before (n = 17; 4.2%), or lived with their families having being in residential care (n = 8; 2.0%), or were in residential care (n = 22; 5.5%). Abuse histories included negligence (n = 23; 5.7%), physical abuse (n = 2; 0.5%), psychological abuse (n = 3; 0.7%), negligence and exposure to deviant behaviors (n = 12; 3.0%), negligence and physical abuse (n = 3; 0.7%), negligence and psychological abuse (n = 3; 0.7%), negligence and sexual abuse (n = 1; 0.2%), and also physical and sexual abuse (n = 1; 0.2%). This group also included at-risk children that, although they did not have history of abuse per se, were in potentially harmful situations for their adjustment, namely, exposure to deviant behaviors (e.g., abuse of substances by the adults in the home; n = 14; 3.5%) and domestic violence (n = 2; 0.5%) (Owen, Thompson & Mitchell et al., 2008). Since some of the groups were too small, they were classified into four categories: 1) children without history of abuse (n = 338); 2) children exposed to risk (n = 16; 3.5%) and domestic violence (n = 2; 0.5%) (Owen, Thompson & Mitchell et al., 2008). Since some of the groups were too small, they were classified into four categories: 1) children without history of abuse (n = 338); 2) children exposed to risk (n = 16; 3.5%) and domestic violence (n = 2; 0.5%) (Owen, Thompson & Mitchell et al., 2008). Since some of the groups were too small, they were classified into four categories: 1) children without history of abuse (n = 338); 2) children exposed to risk (n = 16; 3.5%) and domestic violence (n = 2; 0.5%) (Owen, Thompson & Mitchell et al., 2008). Since some of the groups were too small, they were classified into four categories: 1) children without history of abuse (n = 338); 2) children exposed to risk (n = 16; 3.5%) and domestic violence (n = 2; 0.5%) (Owen, Thompson & Mitchell et al., 2008). Since some of the groups were too small, they were classified into four categories: 1) children without history of abuse (n = 338); 2) children exposed to risk (n = 16; 3.5%).

2.2 Measures

2.2.1 History of Child Abuse

Information on history of child abuse was obtained through child protection services. Given the size of the group of children with a history of abuse, the option was to analyze this variable in two distinct ways: (a) dichotomized
in present or absent; and (b) subdivided into four categories according to different types of abuse (cf. Barnett et al., 1993): without history of abuse, negligence only, and child abuse (all types of abuse, except negligence only). We also included an at-risk category with children referred in child protection services for exposure to deviant behaviors or to domestic violence.

2.2.2 School Achievement

School achievement was measured by children’s grades and number of grade retentions (cf. Eckenrode, Laird & Doris, 1993). The presence and number of grade retentions was reported by the students themselves. The mean grades in Language (Portuguese) and Math throughout the previous school year (2007-2008) were calculated based on school reports for each child in each trimester. In Portugal the grade system varies from 1 to 5 in 5th-9th grades, wherein 1-2 are falling grades and 3-5 passing grades. The overall mean grade for language was 2.90 ($SD = 0.63$), with no significant differences among grade levels. The overall Math mean grade was 2.82 ($SD = 0.83$); however, differences were statistically significant with a lower Math mean for 7th graders ($M = 2.31$) and higher for 5th graders ($M = 3.10$).

2.2.3 Perceived Social Support

The Social Support Appraisals Scale: Child’s Subjective Appraisal of Family, Peer and Teacher Support (SSAS) was used. This is a 41-item self-report instrument developed by Dubow and Tisak (1989). Items are rated on a 5-point Likert scale, from 1 (never) to 5 (always), wherein some are reverse-coded. In total, 19 items assess peer support from friends and classmates (e.g., Some kids feel left out by their friends, but other kids don't. Do you feel left out by your friends?); 12 items evaluate family support (e.g., Some kids can count on their family for help or advice when they have problems, but other kids cannot. Can you count on your family for help or advice when you have problems?); and 10 items address the support provided by teachers (e.g., Some kids feel very close to their teachers, but other kids don't. Do you feel very close to your teachers?).

Its psychometric qualities were shown for the original versions (Dubow & Ullman, 1989; Dubow et al., 1991) and for the Portuguese population (Lopes & Moleiro, in press). In the present study, internal consistency values were of 0.90 for the scale and of 0.88, 0.89 and 0.83 for each of its components: peers, family and teachers, respectively. Factorial analysis was conducted revealing the scale’s good quality through the values obtained in Kaiser-Meyer-Olkin Statistic ($KMO = 0.87$) and in Bartlett’s Sphericity Test ($B = 5613.35; p < 0.01$), explaining 39.96% of the total variance obtained, with explanation values varying from 10.36% and 15.46% for each factor. All items showed agreeing factor loadings with the ones obtained by the original authors (Dubow & Ullman, 1989; Dubow et al., 1991).

2.2.4 Demographic Information

After filling out the SSAS, students were asked to fill out a brief sheet with demographic information, which included age, gender, ethnicity, family composition, grade level and number of retentions. Given that self-report by the student may be unreliable for socioeconomic status indicators, SES was assessed by obtaining information on financial support provided to the families in school social services. Three broad levels were defined - low, low average, and high average or good - for families qualified for full financial support, partial financial support, and families no financial support, respectively.

2.3 Procedure

The questionnaires were applied in the children’s classrooms in a school in a small urban area in Lisbon’s suburbs, after obtaining informed consent from all participants (including children and their parents), according to ethical principles (American Psychological Association, 2002). As indicated by the authors of the original scale, each item was read aloud while the researcher checked that all the children understood and were following directions, not skipping ahead nor falling behind (Dubow & Ullman, 1989; Dubow et al., 1991).

3. Results

3.1 Child Abuse and School Achievement

Children with history of abuse showed significantly lower Language ($t (384) = 5.55; p < 0.01$) and Math grades ($t (384) = 4.77; p < 0.01$), as well as more retentions ($t (384) = -4.14; p < 0.01$), when compared with children without history of abuse. Analysis of variance (ANOVA's) revealed significant relationships between types of abuse and school achievement for all measures studied: Language ($F (3, 401) = 11.18; p < 0.01$) and Math grades ($F (3, 401) = 9.12; p < 0.01$) and number of retentions ($F (3, 401) = 11.95; p < 0.01$). Neglected children showed lower Language and Math grades and more years of retention than children without history of abuse. These significant differences were also found when comparing children without or with history of abuse, with the latter
showing poorer school adjustment. Differences between at-risk children and any other group were not found for any of the measures studied. These results are represented in Figure 1.

Insert Figure 1

There were no significant differences among children from Portuguese or ethnically minority backgrounds in school achievement in Language, Math and number of retentions. However, a significant difference was found regarding SES on Language \( (F(2, 389) = 5.93; p < 0.01) \) and Math \( (F(2, 389) = 7.88; p < 0.01) \) results, but not on retentions. SES was, hence, used as a co-variable.

3.2 Child Abuse and Social Support

History of abuse did not relate significantly to social support, for any of the sources studied – peers \( (t(377) = -0.44, ns) \), family \( (t(377) = 0.20, ns) \) and teachers \( (t(376) = -0.96, ns) \) – neither for global social support \( (t(377) = -0.50, ns) \). All children revealed moderately high perceived social support with medium values all above 3.54 (range: 1-5). ANOVA’s also did not show differences in perceived support between any of the types of abuse – global social support \( (F(3, 401) = 0.74, ns) \), support from peers \( (F(3, 401) = 0.40, ns) \), family \( (F(3, 401) = 0.62, ns) \) and teachers \( (F(3, 401) = 1.96, ns) \). Therefore, the variable was dichotomized in high and low perceived support, divided by its median values (cf. Demaray & Malecki, 2002a), but still no significant differences for any of the scale’s dimensions were found: peers \( (t(360) = 0.24, ns) \), family \( (t(353) = -0.34, ns) \), teachers \( (t(358) = -0.60, ns) \) and global support \( (t(367) = 0.29, ns) \). Nonetheless, results for perceived social support differed according to the three sources analyzed, with children perceiving higher support from their family \( (M = 4.36) \), followed by their peers \( (M = 3.79) \) and finally their teachers \( (M = 3.54) \). The repeated measures ANOVA indicated differences between groups \( (F(20, 390) = 213.76; p < 0.01) \) were statistically significant. The multiple means comparison, with Bonferroni adjustment, indicated differences among all groups: peers-family, peers-teachers, and family-teachers support.

3.3 Social Support and School Achievement

Social support (dichotomized) related significantly with school achievement, i.e., children with higher perceived global social support presented significantly higher school results than children with lower perceived social support, both in Language \( (t(380) = -3.34; p < 0.01) \) and Math \( (t(380) = -3.20; p < 0.01) \), as well as less retentions \( (t(380) = 1.93; p = 0.05) \). A significant relationship between perceived family support and retentions \( (t(366) = 2.74; p < 0.01) \) was also found, but not with Language \( (t(366) = -1.87, ns) \) or Math \( (t(366) = -1.39, ns) \) results. Significance between perceived teacher support and all measures of school achievement was found: Language \( (t(369) = 3.22; p < 0.01) \) and Math \( (t(369) = -5.46; p < 0.001) \) results and number of retentions \( (t(369) = -4.27; p < 0.001) \). All results indicated a favorable relationship between perceived social support and school achievement. No differences were found for perceived peer support on any of the school achievement measures.

Aforementioned results were independent of children’s ethnic background and SES.

3.4 Child Abuse, Social Support and School Achievement – Moderation Effects

Moderation effects were investigated using ANCOVA’s, using subtypes of child abuse as independent variable, social support (low or high) as covariate, and school achievement measures as dependent variables. A moderation effect of perceived social support was found in the relationship between child abuse and Language results \( (F(3) = 3.26; p < 0.05) \) (Figure 2).

Insert Figure 2

The analyses of simple effects revealed that it was significant for the group of children without history of abuse \( (F(1, 381) = 7.46; p < 0.01) \) and at-risk \( (F(1, 381) = 13.24; p < 0.01) \), with higher perceived social support related to better school results. However, the difference was not significant for neglected children \( (F(1, 381) = 0.23, ns) \), nor children from the child abuse group \( (F(1, 381) = 0.01, ns) \). It also was not significant for any of the support sources studied: peers \( (F(3, 381) = 2.26, ns) \), family \( (F(3, 381) = 0.14, ns) \) and teachers \( (F(3, 381) = 1.03, ns) \).

Similarly, a significant positive moderation social support effect in Math results was found \( (F(3, 381) = 3.26; p < 0.05) \). This effect was observed for non-abused children \( (F(1) = 5.63; p < 0.05) \) and for at-risk children \( (F(1, 381) = 13.58; p < 0.001) \), but did not reach statistical significance for neglected children \( (F(1, 381) = 2.55, ns) \) or children from the child abuse group \( (F(1, 381) = 0.03, ns) \) (Figure 3).

Insert Figure 3

As for each of the support sources studied, peer support also functioned as a moderation variable between child
Three main factors may have contributed for the results found. Firstly, it is important to clarify the relationship

neglected children. This effect was also found for family support and global social support.

relationship between of child abuse history and school achievement. Findings revealed a moderation effect of

The main goal of the present study was to explore the moderation effect of perceived social support on the

retentions, instead of school adjustment, but only among neglected children and adolescents.

Indeed, what seems to make results differ the most from others found in the same field of investigation is the

direction in the moderation effect between history of abuse and school achievement. When analyzing the number

of grade retentions, results indicate perceived social support related with school maladjustment for neglected

children and abused children. This effect was found for global support, family support and teacher support. Data

showed an association between high perceived teacher support and a high number of grade retentions for

neglected children. This effect was also found for family support and global social support.

Three main factors may have contributed for the results found. Firstly, it is important to clarify the relationship

 abused and Math results ($F (3, 381) = 2.79; p < 0.05$), but not family ($F (3, 381) = 0.64, ns$) nor teacher support ($F (3, 381) = 1.84, ns$). More specifically, the moderation effect was found for at-risk children ($F (1, 381) = 6.35; p < 0.05$) (Figure 4).

A moderation effect of perceived social support was also found in the relationship between history of abuse and

number of grade retentions ($F (3, 381) = 2.57; p = 0.05$). The simple effect was significant for non-abused children ($F (1, 381) = 7.00; p < 0.01$). It was not significant for neglected children ($F (1, 381) = 3.20, ns$), nor for at-risk children ($F (1, 381) = 0.14, ns$) nor for children from the child abuse group ($F (1, 381) = 1.05, ns$).

However, as can be observed in Figure 5, the most striking difference found for this school achievement measure

was that perceived social support did not seem to relate to school success, but instead, school maladjustment

(higher number of retentions) for children from the negligence and child abuse groups. In fact, children from

these two groups with high perceived social support had more retentions than children with low perceived social support.

When sources of support were explored, only peer support did not have a moderation effect in the relationship

between child abuse and grade retentions ($F (3, 381) = 0.42, ns$). Both family ($F (3, 381) = 2.87; p < 0.05$) and

teacher support ($F (3, 381) = 4.51; p < 0.01$) showed significant moderation between these two variables.

Family support showed a statistically significant simple effect for non-abused children ($F (1, 381) = 11.48; p < 0.01$), while it did not reach statistical significance for any of the other groups: at-risk ($F (1, 381) = 3.00, ns$), negligence ($F (1, 381) = 2.75, ns$) and child abuse ($F (1, 381) = 0.25, ns$) (Figure 6). As for teacher support, a significant moderation effect was found for non-abused ($F (1, 381) = 21.21; p < 0.001$) and for neglected ($F (1, 381) = 5.47; p < 0.05$) children (Figure 7). Simple effects did not reach significance for at-risk children ($F (1, 381) = 0.10, ns$) and child abuse groups ($F (1, 381) = 0.07, ns$). As in the case of the perceived global social support, perceived family support and teacher support were associated with children’s higher number of retentions, instead of school adjustment, but only among neglected children and adolescents.

When sources of support were explored, only peer support did not have a moderation effect in the relationship

between child abuse and grade retentions ($F (3, 381) = 0.42, ns$). Both family ($F (3, 381) = 2.87; p < 0.05$) and

teacher support ($F (3, 381) = 4.51; p < 0.01$) showed significant moderation between these two variables.

Family support showed a statistically significant simple effect for non-abused children ($F (1, 381) = 11.48; p < 0.01$), while it did not reach statistical significance for any of the other groups: at-risk ($F (1, 381) = 3.00, ns$), negligence ($F (1, 381) = 2.75, ns$) and child abuse ($F (1, 381) = 0.25, ns$) (Figure 6). As for teacher support, a significant moderation effect was found for non-abused ($F (1, 381) = 21.21; p < 0.001$) and for neglected ($F (1, 381) = 5.47; p < 0.05$) children (Figure 7). Simple effects did not reach significance for at-risk children ($F (1, 381) = 0.10, ns$) and child abuse groups ($F (1, 381) = 0.07, ns$). As in the case of the perceived global social support, perceived family support and teacher support were associated with children’s higher number of retentions, instead of school adjustment, but only among neglected children and adolescents.

4. Discussion

The main goal of the present study was to explore the moderation effect of perceived social support on the

relationship between of child abuse history and school achievement. Findings revealed a moderation effect of

social support in the relationship between history of abuse and school achievement, although significant
differences were mainly found for children without history of abuse. Therefore, it is not possible to confirm the

hypotheses that perceived social support always exerts a positive moderation effect between child abuse and

school achievement. In other words, results support only partially the adaptability of the social support as a

moderator of life stress model to the specific context of child abuse and school achievement.

For children without history of abuse, the moderation effect of global social support was found in all school

achievement measures, and also of family and teacher support for number of grade retentions. For at-risk

children, perceived support showed to have a significant moderation effect for Language and Math results. For

this group, peer support also functioned as a buffer for Math results. For neglected children, teacher support was

a significant moderation variable for number of grade retentions. No significant effect was found for abused

children.

Results may suggest the existence of a critical level in risk situations experienced by children. Similarly to social

support critical levels, as defended by Demaray and Malecki (2002a), for children without history of abuse and

at-risk children, having high levels of perceived support seems to function in favor of their school adjustment.

However, for children with past or present history of abuse, i.e., for the children with history of negligence and/or history of abuse, perceived social support may no longer be enough to promote educational adjustment.

Indeed, what seems to make results differ the most from others found in the same field of investigation is the

direction in the moderation effect between history of abuse and school achievement. When analyzing the number

of grade retentions, results indicate perceived social support related with school maladjustment for neglected

children and abused children. This effect was found for global support, family support and teacher support. Data

showed an association between high perceived teacher support and a high number of grade retentions for

neglected children. This effect was also found for family support and global social support.

Three main factors may have contributed for the results found. Firstly, it is important to clarify the relationship
between child abuse and stress. Even though stress may be considered a consequence of child abuse (Runtz & Schallow, 1997), that does not mean stress and child abuse are identical. In reality, given the consequences of child abuse for children’s adjustment, social support possibly functions differently for abused children than it does for other studied stressful situations, such as divorce, loss of a friend, problems with a teacher, or death in the family (e.g., Dubow & Tisak, 1989; Dubow et al., 1991; Dubow, Edwards & Ippolito, 1997; Jackson & Warren, 2000).

Secondly, the relationship between child abuse and attachment must be considered. In fact, abused children tend to show more difficulties in attachment (Cicchetti & Toth, 2005), showing frequently insecure attachments with their caretakers (Crittenden, 1985). Given the importance of a secure attachment in early life for psychological and social adjustment (Ainsworth, Blehar, Waters & Wall, 1978), and given that social support allows individuals to develop adaptive attitudes towards others (Cutrona, Cole, Colangelo, Assouline & Russell, 1994), the availability of social support might not be clearly understood by children with history of abuse, therefore, it may not be a positive promoter of their adjustment.

Thirdly, one should consider the fact that the number of grade retentions was the school achievement measure that related the most with history of child abuse, with social support as a moderator. Children with retentions are usually children who are older, have attended school the longest and, thus, children who know their peers, teachers and other school professionals better, and vice-versa.

4.1 Conclusions and Implications

Despite the lack of some expected results, this study confirms child abuse as a risk factor (e.g., Cicchetti & Toth, 2005; Eckenrode et al., 1993; Egeland, 1991; Pepin & Banyard, 2006) and social support as a protective factor (e.g., Dubow & Tisak, 1989; Elias & Haynes, 2008; Hagen, Myers & Mackintosh, 2005; Perkins & Jones, 2004; Spaccarelli & Kim, 1995) for school achievement. Schools should then focus their intervention on promoting social support for children and adolescents, by (a) promoting children’s friendships and reducing negative effects of stressful family contexts (Schwartz, Dodge, Pettit, Bates & Conduct Problems Prevention Research Group, 2000); (b) developing tutoring/mentoring programs (Barrera & Prelow, 2000) or mediation programs (Bloomquist & Schnell, 2002) aimed at promoting children’s emotional and behavioral adjustment, as well as their school achievement (DuBois, Holloway, Valentine e Cooper, 2002) and their familial relationships (Grossman & Rhodes, 2002); (c) training teachers to identify child abuse signals and symptoms, and to refer them to child protection services (Kenny, 2001, 2004; Yanowitz, Monte & Tribble, 2003); (d) developing programs aimed at drawing in and involving parents in school life and in their children’s learning and achievements (Price, Cowen, Lorion & Ramos-McKay, 1988); (e) training parents on authoritative and positive parenting, adaptive parent-child interactions and functional family relationships (Bloomquist & Schnell, 2002); (f) empower communities to become responsive towards children exposed to trauma, recognizing that exposure to traumatic situations constitutes a major obstacle in developing community connections (Banyard & LaPlant, 2002); and (g) establishing partnerships with other community organizations and resources aimed at changing abused children’s and their families’ contexts and thus developing their well-being (Cicchetti, Toth & Rogosch, 2000).

4.2 Limitations of the Present Study

Two main limitations of the present study should be referred. The first concerns the small dimension of the group of children with history of abuse, which may have contributed to lower power in comparative analyses and results found were not statistically significant. The second limitation concerns data collection which occurred in one school only, thus limiting the generalization potential of results found.

4.3 Conclusions and Future Prospects

On the other hand, a positive contribution was given to the investigation in the field of child abuse by analyzing school achievement throughout one school year and by introducing ethnic background and SES as variables in the analyses. Future research should gather more information about participant children (e.g., age of child abuse onset, frequency and duration of abuse episodes, severity, continuity over time, time gap between abuse occurrence and consequence assessment) and families (e.g., family income, family education, occupation) in order to allow for the exploration of social support effects given other co-variables. Furthermore, researchers could cross-validate results in child self-report social support scales with other instruments or methodologies, allowing for a more clear and accurate understanding of social support effects in the relationship between history of child abuse and school achievement.
References


---

![Figure 1](image_url)  
Figure 1. Mean results in language and math, and mean number of retention years by group.
Figure 2. Effect of global social support on language results

Figure 3. Effect of global social support on math results

Figure 4. Effect of peer support on math results
Figure 5. Effect of global social support on grade retentions

Figure 6. Effect of family support on grade retentions

Figure 7. Effect of teacher support on grade retentions