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Linking childhood emotional neglect to adolescents' parent-related loneliness: Self-other differentiation and emotional detachment from parents as mediators

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Original

Linking childhood emotional neglect to adolescents' parent-related loneliness: Self-other differentiation and emotional detachment from parents as mediators / Musetti, A.; Grazia, V.; Manari, T.; Terrone, G.; Corsano, P.. - In: CHILD ABUSE & NEGLECT. - ISSN 0145-2134. - 122:(2021), p. 105338.105338. [10.1016/j.chiabu.2021.105338]

Availability: This version is available at: 11381/2902084 since: 2024-12-20T15:22:46Z

Publisher: Elsevier Ltd

Published DOI:10.1016/j.chiabu.2021.105338

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Abstract

Background

The detrimental role of childhood emotional neglect (CEN) on long-term affective and social development has received increasing attention in the literature. Individuals who were emotionally neglected during their childhood are more prone to feeling isolated and excluded by their parent during adolescence. However, little is known about the mediating processes underlying this association.

Objective

This study investigated whether self-other differentiation (SOD) and emotional detachment from parents mediate the link between CEN and parent-related loneliness.

Method and participants

A sample of 535 high school students aged 13–18 years (63.6% female; $M_{age} = 16.21$; SD = 1.40) completed questionnaires regarding demographics, CEN, SOD, emotional detachment, and parent-related loneliness.

Results

After controlling for demographic covariates, structural equation modeling (SEM) showed that (a) CEN was positively associated with parent-related loneliness ($\beta = .64$, p < .001), (b) SOD did not mediate the relationship between CEN and parent-related loneliness ($\beta = -.01$, p = .142), (c) emotional detachment partially mediated the relationship between CEN and parent-related loneliness ($\beta = .16$, p < .001), and (d) SOD and emotional detachment partially and sequentially mediated the link between CEN and parent-related loneliness, albeit with a small effect size ($\beta = .02$, p = .027).

Conclusions

The findings underscore the significance of the link between CEN and parent-related loneliness in adolescence. Moreover, our results suggest that some adolescents with a history of CEN have difficulties in establishing clear boundaries between "self" and "other" and tend to engage in

EMOTIONAL NEGLECT AND PARENT-RELATED LONELINESS

emotionally detached relationships with their parents, which may lead them to feel more parent-

related loneliness. Clinical implications and directions for future research are discussed.

Keywords: parent-related loneliness, childhood emotional neglect, self-other differentiation,

emotional detachment, adolescence

Linking Childhood Emotional Neglect to Adolescents' Parent-Related Loneliness: Self-Other

Differentiation and Emotional Detachment from Parents as Mediators

Loneliness refers to an unpleasant experience wherein a person suffers from feelings of exclusion or rejection related to deficiencies in the quantity or quality of their own network of social relations (McWhirter, 1990; Perlman & Peplau, 1981). People may feel lonely when isolated and even in the presence of or interacting with other people. Thus, loneliness is different from aloneness, which indicates the absence of communication or interaction with others (including online and phone communication), and from isolation, which refers to the objective state of being without company (Galanaki, 2004; Long & Averill, 2003). Moreover, people may constructively use their time alone (e.g., for concentration, self-reflection, and learning) without necessarily experiencing loneliness (Galanaki, 2013; Corsano et al., 2019). The search for solitude to engage in intrinsically motivated activities characterizes this "loneliness-free" form of a positive attitude to being alone (Thomas & Azmitia, 2019). Research has indicated that although the experience of feeling lonely might already be present in childhood (Newsom et al., 2013), it reaches its climax during adolescence, declines in adulthood, and then increases to some extent in old age (Barreto et al., 2021; Heinrich & Gullone, 2006). Adolescents might be particularly susceptible to loneliness for a variety of reasons, including instability in their social network ties associated with developmental changes, such as identity exploration, that can enhance young people's vulnerability to exclusion (Laursen & Hartl, 2013; Qualter et al., 2013; Qualter et al., 2015). Specifically, risk factors for loneliness in youth include dysfunctional family relations (Zhu et al., 2019), peer victimization (Rönkä et al., 2014; Stickley et al., 2016), and school-related stress (Zhu et al., 2019). Although it is natural for adolescents to feel lonely occasionally (Csikszentmihalyi & Larson, 1984), a protracted and persistent sense of loneliness could be associated with maladjustment and psychopathology (Heinrich & Gullone, 2006; Qualter et al., 2013), and especially with an increased risk of depression, anxiety, and suicide ideation (Cui et al., 2011; Humenny et al., 2021; Lasgaard et al., 2011a; Santini et al., 2021). Thus, recent research has highlighted the relevance of advancing

our knowledge of loneliness to prevent or treat mental health problems in youths (Jenkins et al., 2020; Pitman et al., 2018; Shovestul et al., 2020).

Loneliness has been conceptualized as either a unidimensional or multidimensional phenomenon (McWhirter, 1990). The unidimensional model of loneliness suggests that loneliness is a unitary phenomenon that varies first and foremost in its experienced intensity and affects all the social domains of an individual's life (Russell, 1982). On the contrary, according to the hybrid multidimensional model developed by Goossens et al. (e.g., Goossens et al., 2009; Marcoen et al., 1987), loneliness is a multidimensional phenomenon varying across circumstances. Specifically, the authors distinguished between two forms of loneliness, namely parent-related loneliness (i.e., a lack of meaningful relationships with parents that implies feelings of rejection and abandonment) and peer-related loneliness (i.e., feeling socially disconnected from peers), which can coexist or not in the same adolescent (Goossens, 2006; Goossens & Marcoen, 1999a). Previous studies reported a clear link between peer-related loneliness and adolescents' maladjustment (Schwartz-Mette et al., 2020), and more complex findings for parent-related loneliness (e.g., Lasgaard et al., 2011b; Musetti et al., 2020). In fact, peer groups become fundamental sources of social support during the separation process from parents (Goossens & Marcoen, 1999b), while parent-related loneliness can emerge as a result of the developmental changes in the attachment system and the associated progressive distancing from parents (Goossens, 2006, p. 62). However, this developmental process does not imply that adolescents no longer need any form of support from and bond with their parents. Indeed, Ponappa et al.'s (2014) longitudinal findings showed that a healthy separation process occurs in the context of a mutual sense of connection in the parent-adolescent relationship. Furthermore, several studies found that adolescents' loneliness is a sign of poor family functioning or communication (e.g., Favotto et al., 2019; Johnson et al., 2001) that may promote maladjustment. For example, relying on a nationally representative sample of 1,009 adolescents, Lasgaard et al. (2011b) found that only family-related loneliness was linked to deliberate self-harm and eating

disorders, and concluded that this form of loneliness required deeper investigation, on par with peer-related loneliness.

A sound theoretical framework to conceptualize this complex complementarity of separation (i.e., exploration) and connection (i.e., attachment) needs during human development can be found in the attachment theory originated by John Bowlby (1969, 1973, 1980). According to this theoretical framework, early secure attachment relationships with parents provide a safe context for children to learn reciprocity and trust, along with negotiating closeness, distance, and exploration (Ainsworth, 1991; Bowlby, 1973, 1980). When caregivers meet children's emotional and physical needs, infants are more likely to develop secure internal working models, which consist of positive expectations of others' availability and responsiveness in times of need or stress (Bowlby, 1988; Waters & Cummings, 2000). On the contrary, if care tends to be unpredictable, mistreating, rejecting, or neglectful, infants are more prone to negatively filter or distort their emotional experiences and develop various insecure internal working models of attachment.

Although several studies have demonstrated that an early pattern of parent–child interaction impacted by maltreatment may negatively influence the subsequent parent–adolescent relationship (e.g., Alto et al., 2018), relatively little is known about the relationships between these adverse experiences and adolescents' loneliness (Ma et al., 2020). Given that different relationships are potential sources of loneliness (Goossens et al., 2009), specific attention to the antecedents of parent-related loneliness may advance our understanding in this important field (Mason, 2020).

Childhood Emotional Neglect and Parent-Related Loneliness

Childhood maltreatment (i.e., emotional abuse, emotional neglect, physical abuse, physical neglect, and sexual abuse) has been well established as compromising attachment relationships with detrimental long-term effects on emotional regulation, experiencing intimate relationships (Breidenstine et al., 2011), social functioning (Alink et al., 2012), and mental health (Whittle et al., 2013). As reported in existing research, child neglect is one of the most prevalent forms of child maltreatment (Gilbert et al., 2009; Keyes et al., 2012; Stoltenborgh et al., 2013), with long-term effects on child development at least as detrimental as those deriving from child physical or sexual abuse (Flett et al., 2016; Smith et al., 2005). Nonetheless, neglect continues to receive less attention in research than other forms of maltreatment (Logan-Greene & Semanchin Jones, 2018). Generally, child neglect is defined as a caregiver's failure to provide for a child's basic needs, whether physical or emotional (O'Hara et al., 2015). Specifically, childhood emotional neglect (CEN) involves the insufficient satisfaction of a child's emotional needs, such as love, support, a sense of belonging, and care (Cicchetti & Toth, 2005). Physical and emotional neglect do not necessarily coexist: In some cases, parents may be unable to adequately meet physical needs because of external circumstances (i.e., socioeconomic disadvantage) and simultaneously be emotionally responsive to their children's needs (Gaudin, 1999). Thus, CEN is closely associated with the longterm development of poor psychological mental health (Ney et al., 1994) and more specifically, loneliness (Ma et al., 2020; Merz & Jak, 2013; Zonash & Arouj, 2019). Hyland et al.'s (2019) recent study showed that childhood traumatization was associated with emotional loneliness (i.e., deficiencies of close attachments) but not with social loneliness (i.e., deficiencies of social integration) in later life. Further, Loos and Alexander (1997) sampled 401 undergraduate students and showed that parental physical and verbal abuse enhanced current anger, whereas CEN increased feelings of loneliness and social isolation. These findings support the argument that individuals with a history of childhood parental maltreatment are more likely to deal with feelings of insufficient or inadequate close attachments later in life. Beyond these studies, further developmentally informed research aimed at identifying pathways leading from CEN to parent-

related loneliness is needed.

Mediating Role of Self–Other Differentiation

Experiences of childhood parental maltreatment have been consistently associated with difficulties in social relationships and negative self-view (Arslan, 2018; Iwaniec et al., 2007). For example, Arslan (2018) found that psychological maltreatment negatively predicted social connectedness and social acceptance among adolescents. Moreover, Wong et al. (2019) showed that

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a more specific detrimental consequence of these adverse events is the development of an impoverished sense of self, with a scarce sense of identity. This is because children shape themselves and learn to regulate their own selves and boundaries with others in the context of their attachment relationships with their parents (Fonagy & Target, 1997).

With specific regard to CEN, the lack of parental sensitivity, attunement, and responsiveness to children's emotional needs can enhance impairments in establishing clearly differentiated representations of the self and others (Bateman & Fonagy, 2004). Consequently, CEN is a relevant developmental factor linked with difficulties in self-definition and self-worth (Gladstone et al., 2004). Achieving a separate sense of self in relationships with others is one of the primary developmental tasks during adolescence (Ingoglia et al., 2018). This important developmental goal is embodied in the construct of self-other differentiation (SOD), defined as the capacity to experience a distinct and separate sense of self in relation with others (Olver et al., 1989). The development of clear interpersonal boundaries is both an interpersonal and an intrapsychic (i.e., within individual) process that allows emotional closeness with another person without fearing boundary dissolution (Kerig, 2005). On the contrary, poorly differentiated individuals are more likely to engage in *fusion* or *emotional cutoff* in their relationships to maintain one's sense of self (Kerr & Bowen, 1988; Nichols & Schwartz, 2000; Skowron, 2000). In the former case, individuals tend to develop a high dependence on others for a sense of well-being (Skowron & Friedlander, 1998); in the latter case, individuals are inclined to react with emotional withdrawal and isolation from others and display an exaggerated but baseless independence from parents (Nichols & Schwartz, 1998). Although in the short term these two types of maladaptive affect regulations may reduce uncomfortable feelings of rejection or isolation (Cassidy, 2000), their rigid and persistent use can contribute to interpersonal problems, such as loneliness (Wei et al., 2005). Thus, SOD may be a relevant mediating factor between CEN and parent-related loneliness.

Although the specific link between SOD and parent-related loneliness has not yet been tested,

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previous research has already established an indirect link between childhood parental maltreatment and loneliness via deficiencies in self-definition. For example, Wong et al. (2019) found that selfconcept clarity (i.e., having a clear, confident, and coherent sense of one's own personal identity) mediated the associations between adverse childhood experiences and overall loneliness. However, the specific link between SOD and parent-related loneliness has not yet been studied.

Mediating Role of Emotional Detachment

Research has also shown that childhood parental maltreatment negatively impacts the individuation process (Kealy et al., 2020). This multifaceted developmental process is rooted in early childhood (Mahler, 1971) and accomplished during adolescence when young people renegotiate parental relationships and develop a sense of emotional autonomy (Blos, 1967; Steinberg & Silverberg, 1986). According to Blos's (1979) individuation model, the transition from adolescence to adulthood is considered as a "second individuation" which requires adolescents to shed parental dependencies and become an individuated self in preparation to join adult society. Although Blos's model relied on classical psychoanalytic theory, subsequent research has shown that attachment and individuation are inextricably linked because well-adjusted individuation requires a sense of support and emotional closeness with parents (attachment) (Lyons-Ruth, 1991; Ryan & Lynch, 1989). According to Beyers et al. (2005), this is the case of emotional separation, which implies an emotional distancing from childhood representations of parents that is not associated with negative feelings toward them. This entails that, as the adolescent matures, they can gain a more realistic view of their parents, become less emotionally dependent on them, and deal with personal responsibilities (Lamborn & Steinberg, 1993). On the contrary, the unhealthy type of individuation has been called emotional detachment from parents (Ryan & Lynch, 1989; Beyers et al., 2005). It involves a more radical and conflictual distancing from family, characterized by feelings of alienation from and distrust toward parents, and a loss of developmentally appropriate attachments (Ryan & Lynch, 1989). Individuals with a history of emotional neglect are more prone

to detach from attachment bonds formed with caregivers and then rely on detachment as a defense later on in life (Barach, 1991).

Several studies have established a relationship between emotional detachment and maladjustment (e.g., Beyers et al., 2005; Pace & Zappulla, 2010), including parent-related loneliness (Majorano et al., 2015; Musetti et al., 2020), suggesting this variable can provide a pathway mediating the association between CEN and parent-related loneliness. However, this pathway has not yet been evaluated.

Multiple Mediating Role of Self-Other Differentiation and Emotional Detachment

Previous research also indicated relevant associations between SOD and emotional detachment. Indeed, while healthy individuation is characterized by clear SOD that allows adolescents to experience both a sense of individuality and closeness (Kruse & Walper, 2008), adolescents who did not establish clear boundaries between themselves and others tend to be more emotionally detached from their parents. For example, Pace and Zappulla (2009) found a negative association between identity exploration and emotional detachment, indicating that adolescents with difficulties in establishing a more defined sense of identity tended to experience ambivalence and conflict in regard to their relationship with their parents. Moreover, Ingoglia et al. (2011) empirically confirmed that deficiencies in SOD led to higher emotional detachment in adolescents. According to these authors, emotional detachment can be an emotional regulatory strategy that poorly differentiated adolescents can adopt to compensate for boundaries diffusion through an exaggerated emotional distance from their parents.

In light of these findings, SOD and emotional detachment possibly will have a role in mediating the association between CEN and parent-related loneliness not only individually, but also sequentially because lower levels of SOD may be associated with higher emotional detachment, which in turn may be linked to higher parent-related loneliness. This is yet another unexplored pathway that warrants further attention. Individuals who were emotionally neglected during their childhood are more prone to feeling they were isolated and excluded from their parents during adolescence (Ma et al., 2020). However, little is known about the mediating processes underlying this association. Building on the past literature, the current study aims to examine the potential role of SOD and emotional detachment in mediating the link between CEN and parent-related loneliness. We address our objectives by testing the model shown in Figure 1. Specifically, the following hypotheses were formulated:

H1: CEN would be positively associated with parent-related loneliness.

H2: SOD would mediate the association between CEN and parent-related loneliness.

H3: Emotional detachment would mediate the association between CEN and parent-related loneliness.

H4: SOD and emotional detachment would sequentially mediate the association between CEN and parent-related loneliness.

[INSERT FIGURE 1 ABOUT HERE]

Method

Participants

Participants were 535 Italian high school students located in Northern Italy from a convenience sample. The sample was drawn from 34 classrooms in two public high schools (specialized in different subjects, i.e., humanities, science, teacher training, and education) serving urban areas. Of the total participants, 63.6% (n = 340) were female, and 83.4% were of Italian origin. As for their ethnicity, 89.9% were European, 5.7% were African, 2.2% were Asian, 0.8% Latino-American, and 1.6% did not report their countries of origin. The adolescents' average age was 16.21 years (SD = 1.40), with a range from 13 to 18 years. With respect to the educational status of the participants' parents, the mothers of 285 (53.3%) and the fathers of 257 (48.0%) participants completed secondary upper education. Participants' socioeconomic status (SES) was

not evaluated directly for this study; however, this information was available on the Italian Ministry of University and Research website. The students attending the two participating high schools were mostly from a medium socioeconomic context, and consistent with our data, about 10% and 20% of students had immigrant backgrounds.

Procedure

Data were collected with the permission of the school principal and school board. After receiving formal approval, the proposed study was advertised to parents and adolescents (aged 12– 18 years) through flyers distributed at area schools. Prior to data collection, the parents or legal guardians of each adolescent were informed about the study by a letter explaining the research purpose and procedure. These parents or legal guardians gave their informed consent, and the adolescents gave their assent. Data were collected anonymously using code numbers instead of names on all the questionnaires. The questionnaires were administered in the participants' classroom during ordinary class sessions and in the presence of teachers and researchers. Upon completion, all participants were thanked, debriefed, and dismissed. Participants received no remuneration for participation. Three respondents (0.56%) who did not complete the survey questionnaires in full were excluded from the analyses. The study was designed and conducted in line with the ethical norms laid down by the Italian Association of Psychology (AIP), the European Code of Conduct for Research Integrity (ECCRI), and the 1964 Helsinki Declaration and its later amendments. Data reported in the present study were part of a larger data collection session (BLINDED FOR REVIEW PURPOSES).

Measures

Parent-Related Loneliness

The L-PART subscale of the Italian version of the Loneliness and Aloneness Scale for Children and Adolescents (LACA; formerly known as the Louvain Loneliness Scale for Children and Adolescents; Melotti et al., 2006; original version by Marcoen et al., 1987) was used to measure participants' parent-related loneliness. The L-PART subscale comprises 12 items (e.g., "I feel left out by my parents") rated on a 4-point Likert scale from 1 (*never*) to 4 (*often*). A total subscale score ranging between 12 and 48 could be obtained, with higher scores revealing higher levels of loneliness in the participants' relationships with their parents. In this study, the L-PART subscale showed very good internal consistency (Cronbach's $\alpha = 0.90$).

Childhood Emotional Neglect

Participants' overall perception of emotional neglect during childhood was evaluated with the respective subscale of the Italian version of the Childhood Trauma Questionnaire: Short Form (CTQ-SF; Sacchi et al., 2018; original version by Bernstein et al., 2003). The adolescents were asked to recall their experiences within their family before the age of 12. The CEN subscale comprises five items (e.g., "When I was growing up, *there was someone in my family who helped me feel that I was important or special*") rated on a 5-point Likert scale ranging from 1 (*never true*) to 5 (*very often true*). The total subscale scores ranged from 5 to 25. Higher scores indicate higher levels of CEN. Following previous research (e.g., Mørkved et al., 2018), CEN scores were dichotomized into none- to- low levels of CEN (score range = 5–17) and moderate- to- severe levels of CEN (score range = 18–25; Bernstein & Fink, 1998). In this study, the CEN subscale showed very good internal consistency (Cronbach's α = 0.85).

Self–Other Differentiation Scale

The Italian version of the Self–Other Differentiation Scale (SODS; Ingoglia et al., 2018; original version by Olver et al., 1989) was used to assess the degree to which participants experienced a separate sense of self in their relationships with others. The SODS comprises 11 items (e.g., "I find it difficult to feel good about myself when I don't get affirmation from other people") rated in a true–false (0, 1) format. Participants were asked to read each statement and decide whether it described them at the present time. Single items were summed up into one global score (ranging from 0 to 11), with higher scores indicating higher levels of SOD. In this study, Cronbach's α was 0.70.

Emotional Detachment

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Participants' emotional detachment from their parent(s) was evaluated with 10 items of the Italian version of the Emotional Autonomy Scale (EAS; Meleddu & Scalas, 2002; original version by Steinberg & Silverberg, 1986). We used the alternative factor structure for the EAS Beyers et al. (2005: in the Italian context, see Majorano et al., 2015) proposed to construct an emotional detachment scale via the following subscales: perceived ignorance (two items, e.g., "My parents would be surprised to know what I'm like when I'm not with them"), distrust (three items, e.g., "My parents probably talk about different things when I am around from what they talk about when I'm not"), and perceived alienation (three items, e.g., "My parents act differently when they are with their own parents from the way they do at home"). As Jager et al. (2015) suggested, we added the privacy subscale (two items, e.g., "There are some things about me that my parents don't know"), further improving the emotional detachment scale. Because the measure with these two additional items had never been used with an Italian population before, we preliminarily tested the expected one-dimensional factorial structure for emotional detachment in the measurement model (see the Results section). Each item was measured on a 4-point Likert-type scale, ranging from 1 (don't agree at all) to 4 (completely agree). The total score could range from 10 to 40, with higher scores indicating higher levels of emotional detachment from parents. In this study, Cronbach's a for detachment was 0.69.

Data Analytic Strategy

SPSS software (version 24) was used to compute the means, standard deviations, and intercorrelations for all the observed variables. Intercorrelations were analyzed using Pearson *r*, whose absolute values are considered to have a small effect size when they are close to 0.1, medium effect size when close to 0.3, and large effect size when equal to or higher than 0.5 (Cohen, 1992). The relationships between L-Part and various sociodemographic variables (i.e., gender, age, maternal education level, paternal education level, and family status), were examined with linear regression and analysis of variance (ANOVA) models. The normality of data distribution was assessed by testing the skewness and kurtosis of all the observed variables and indicators. To test

whether the measures" expected factorial structure would obtain adequate goodness of fit. In this phase, latent variables were computed for CEN, emotional detachment, and parent-related loneliness from their respective observed indicators. Then, the measurement model was included in a full structural equation model with latent variables where the mediation model presented in Figure 1 was tested. SOD, computed as the total sum of dichotomous items, was entered in the model as an observed variable. Because previous studies have shown that female adolescents (Melotti et al., 2006) and older adolescents (Maes et al., 2015) may experience more parent-related loneliness, gender and age were included as control observed variables for all variables in the model. Several indices were considered for evaluating the goodness of model fit: the root-mean-square error of approximation (RMSEA), the comparative fit index (CFI), and the standardized root-mean-square residual (SRMR). Hu and Bentler's (1999) goodness-of-fit criteria were used to indicate acceptable (CFI and TLI > 0.90, SRMR < 0.10, RMSEA < 0.08) and excellent fit (CFI and TLI > 0.95, SRMR < 0.08, RMSEA < 0.06). As the chi-square value has been found to be sensitive to sample size (Bentler and Bonnet, 1980), we did not consider its significance to assess our models' goodness of fit and relied instead on the χ^2/df ratio, which should be less than 3.0 to indicate good fit (Blunch, 2008; Brown, 2006). We defined an α value of .05 for the effects' level of significance in the model.

Results

Preliminary Analyses

Descriptive statistics for the full sample and differentiated by gender are reported in Table 1. As expected for a nonclinical sample, the mean score of the CEN subscale of the CTQ-SF was in the nonclinical range. Specifically, 90 participants (6.9%) showed a moderate- to- severe level of CEN (CEN scores above 18).

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[INSERT TABLE 1 ABOUT HERE]

Intercorrelations among the study variables are presented in Table 2. Parent-related loneliness was significantly and positively related to higher age, CEN, and emotional detachment, and significantly and negatively associated with SOD. With regard to relations between sociodemographic variables and L-Part, ANOVA indicated that gender and family status did not report a significant association (respectively F(1,533) = .45, p = .503 and F(4, 522) = 2.32, p = .056). Instead, maternal education was significantly associated with L-Part, albeit with a small effect size (F(4, 519) = 3.10, p = .016, $\eta^2 = .02$), with adolescents whose mothers had elementary education reporting higher L-Part than those whose mothers had upper secondary or college education. Similarly, adolescents with elementary-educated fathers reported higher L-Part than all others with higher paternal education (F(4, 520) = 8.49, p = .000, $\eta^2 = .06$). Lastly, a linear regression analysis indicated that age was positively associated with L-Part ($\beta = .09$, p = .034). No gender differences in relation to age were found [t(533) = 1.34, p = 0.18].

[INSERT TABLE 2 ABOUT HERE]

The Mediation Model

All the observed variables reported skewness and kurtosis values within the threshold of |2|, indicating the data distribution's normality (Gravetter et al., 2020). However, as a few items slightly exceeded these values (two items on CEN, i.e., "When I was growing up, I felt loved" [R] and "When I was growing up, people in my family looked out for each other" [R], and one item on L-PART, i.e., "At home I feel at ease" [R]), the robust maximum likelihood estimator (MLR) was used for the measurement and full models. The measurement model showed good fit to the data (MLR $\chi^2(312) = 631.37$, p < .001, $\chi^2/df = 2.02$, RMSEA = .044, 90% CI [.039–.049], CFI = .931, SRMR = .052), and all the observed indicators significantly (p < .001) loaded on the factor they were expected to represent. Few item-level covariations were added only between indicators measuring the same factor. The full mediation model, including both the measurement and structural components, also reported adequate indices of fit: MLR $\chi^2(386) = 799.38$, p < .001, $\chi^2/df = 2.07$, RMSEA = .045, 90% CI [.040–.049], CFI = .917, SRMR = .055. The results of the structural part of the model are represented in Table 3. The control variables were not included in the table for clarity of representation. Age had no significant effect on any of the model variables, while gender was significantly associated with SOD ($\beta = -.26$, p < .001) and emotional detachment ($\beta = -.13$, p = .006), indicating that the female participants reported lower scores for both mediators. Overall, the model accounted for a large part of the variance of the outcome variable, L-PART (77%).

With regard to direct effects, the results indicated that higher levels of CEN were directly associated with higher levels of emotional detachment ($\beta = .40, p < .001$) and with lower levels of SOD ($\beta = -.11, p = .020$), albeit the latter effect was smaller. In turn, lower SOD scores were associated with higher levels of emotional detachment ($\beta = -.35, p < .001$). Finally, the predictor and mediator variables were all directly associated with the L-PART scores: higher levels of CEN ($\beta = .64, p < .001$), SOD ($\beta = .08, p = .030$), and emotional detachment ($\beta = .40, p < .001$) were all associated with higher L-PART. However, the direct effect of SOD on L-PART was rather small.

As for the indirect effects, the mediation path from CEN to L-PART through SOD was not significant ($\beta = -.01$, p = .142), while the path including only emotional detachment as a mediator reported a significant indirect effect ($\beta = .16$, p < .001). The full sequential mediation path, including both SOD and emotional detachment as mediators, showed a small but significant indirect effect ($\beta = .02$, p = .027).

[INSERT TABLE 3 ABOUT HERE]

Discussion

This study aimed to advance the understanding of the link between CEN and parent-related loneliness among adolescents. Our findings enrich the existing literature because they reveal the sequential mediating roles of SOD and emotional detachment in this relationship.

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12 6

 $\begin{smallmatrix}16\\17\end{smallmatrix}8$

9

36<mark>1</mark>6

17

5@24

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Consistently with our first hypothesis (H1), we found a significant and positive association between CEN and adolescents' parent-related loneliness. This finding is consistent with the attachment theoretical viewpoint that suggests such forms of early adversity can result in subsequent feelings of deprivation and abandonment (Briere, 2002). Moreover, this finding supports the argument that traumatic experiences other than parental physical or psychological violence (i.e., sexual or emotional abuse) must be considered when exploring how feelings of loneliness develop (Loos & Alexander, 1997). Namely, a lack of parental responsiveness to emotional needs may lead some children to feel deprived of a sense of "internal company" (i.e., a sense of connection with others, even when others are absent; Canham, 2006) and a positive expectation of their parents' availability for support.

Surprisingly, and contrary to our expectations, SOD did not operate as a mediator in the relationship between CEN and parent-related loneliness (H2). One possible reason for this finding is that individuals with a history of CEN may develop different strategies to regulate self–other boundaries (Reyome et al., 2010). For example, poorly differentiated adolescents may tend toward excessive over-identification and inappropriate emotional involvement (fusion) with parents to avoid loneliness. On the contrary, they may develop an avoidant relationship with their parents as a result of CEN. Thus, they could alternately both aggravate and compensate their parent-related loneliness, depending on these maladaptive strategies' pervasiveness. Further longitudinal studies are needed to disentangle the relationships among these variables.

In accordance with our expectations (H3), the results showed that the link between CEN and parent-related loneliness was partially mediated by emotional detachment from parents while controlling for age and gender. In line with the attachment framework of adolescents' individuation (Ryan & Lynch, 1989), disengagement from parents does not occur in a vacuum. Our results are in line with the idea that developing a healthy individuation is rooted in close relationships with parents and involves an active renegotiation of family relationships (Lapsley & Edgerton, 2002). Indeed, our findings suggest that emotional detachment can develop as a result of difficulties in attachment relationships related to experiencing emotional neglect, in turn leading adolescents to view their parents as rejecting or unsupportive (Ryan & Lynch, 1989; Ryan et al., 2006). This supports previous findings that showed this unhealthy form of individuation may be a sign of serious emotional difficulties and may be linked with negative developmental outcomes (Corsano et al., 2014; Ingoglia et al., 2011).

Although the role of SOD as a single mediator was not significant, the multiple mediation analysis results showed that CEN was associated with lower SOD, which was, in turn, related to higher emotional detachment and higher parent-related loneliness in adolescents, with a small but significant indirect effect of the whole sequential path. Therefore, our hypothesis (H4) was partially supported. In other words, some adolescents who felt lonely toward their parents had a history of CEN, less clear self-other boundaries, and an increased emotional detachment from their parents. In these cases, diffused boundaries between the self and others may interfere with experiencing belonging and mutuality during the individuation process, making emotional separation from parents more problematic, and as a result, SOD influence on parent-related loneliness becomes more evident. Taken together, these results support that emotional detachment, rather than simply reflecting an extreme type of emotional separation (Beyers et al., 2005, p. 147), could act as a regulatory strategy to compensate weak SOD. As Ingoglia and colleagues (2011) observed, emotionally detached adolescents may have self-other boundaries that are too weak to preserve an adequate emotional separation from parents, thus resulting in a rigid avoidant attitude toward them. In psychodynamic terms, this means that an emotional detachment that manifested in a pervasive way may be a sign not of excess separation but its opposite, namely, a defensive expression of a lack of self-other differentiation (Musetti, 2012).

Strengths and limitations

This study shows a number of strengths, including the relatively large sample size and the large part of the variance of the outcome variable (77%) the proposed model accounted for. In

addition, this is, to the best of our knowledge, the first study investigating multiple psychological mediators between CEN and parent-related loneliness. On the other hand, several limitations are noteworthy. Most notably, statistical significance of the observed association should be interpreted with caution because of the small effect size, the relatively large sample size, and the potential for confounding and bias. Moreover, we had to rely on retrospective measures of childhood adverse events. Thus, the multimethod assessment (e.g., clinical interview, psychometric data, collateral information, and review of clinical records) of CEN might lead to more valid findings. However, the CTQ-SF is widely used to assess the history of childhood abuse and neglect (Viola et al., 2015), and evidence in childhood abuse and neglect research (cf. Hardt & Rutter, 2004) has shown that bias does not significantly affect the validity of these retrospective tools. Similarly, as we relied only on cross-sectional data, we cannot draw any conclusions on the effects. Moreover, we used the term "mediation" only in the statistical sense. Given that experiences linked to CEN have taken place chronologically before parent-adolescent relationships are established, longitudinal studies are needed to disentangle the complex relationships among CEN, SOD, emotional detachment, and parent-related loneliness in adolescence. Other limitations of this study include using a convenience sample (rather than a probability sample), with low/minimal levels of CEN and the unequal representation of gender. It is possible that participants who self-selected to participate may not be representative of other people in this life stage. Finally, these findings may have been influenced by other variables not examined here (e.g., insecure attachment, inter-parental conflict, psychopathological symptoms).

Conclusions

Notwithstanding its limitations, this study provided new evidence of the role that CEN may play in the multidetermined processes underlying adolescents' parent-related loneliness. Specifically, this paper presents the first known study examining the simultaneous mediating role of SOD and emotional detachment in the relationship between CEN and parent-related loneliness. We conclude that some adolescents with a history of CEN also seem to have difficulties in establishing clear boundaries between the self and others, and tend to engage in emotionally detached relationships with their parents, which may lead them to feel more parent-related loneliness. Such feelings of loneliness may be the result of an attempt to regulate weak interpersonal boundaries through a radical form of emotional distancing from their parents.

Clinical Implications and Directions for Future Research

Given the established association between protracted and chronic loneliness and increased developmental risk, early detection of clinically relevant loneliness among adolescents is crucial for planning appropriate interventions. Our findings can help clinicians understand the underlying factors contributing to adolescents' loneliness within parent relationships. Thus, this study's results might have relevant clinical implications in identifying targets for interventions, in designing strategies to mitigate parent-related loneliness in adolescence, and in preventing internalizing and externalizing behavior problems. For example, a tailored intervention for adolescents who feel lonely in their relationships with their parents could be addressed to facing negative affect linked to CEN to restore a sense of trust and mutual involvement with their parents instead of limiting the extent of the intervention by endeavoring to lower loneliness. In this more comprehensive way, and in line with trauma-informed principles, an adolescent with a history of CEN may experience a safer and more supportive environment to rebalance the basic needs of differentiation and connectedness.

Moreover, a specific intervention focus could be placed on adolescent difficulties with SOD and individuation while taking into account their developmental level (e.g., emotional awareness and cognitive maturity level). Ideally, adolescents individuate from parents while maintaining an emotional connection to them. Counselors and clinicians should help adolescents understand some possible reasons behind their parent-related loneliness, develop more adaptive strategies to regulate self–other boundaries and promote emotional separation in the context of parent relationships.

While planning the intervention, a particular attention should be paid to the entire family system in an effort to promote a more reciprocal sense of connection and belonging between adolescents and their parents. In addition, deciding which individuals to involve in the intervention should also be based on the severity of CEN the adolescent has experienced (e.g., statutory child protection agencies should be involved in cases of severe maltreatment). For example, a mentalization approach addressed to both adolescents and parents could act as a buffer against psychopathology in adolescents with a history of childhood maltreatment (Sharp & Venta, 2012), improve the quality of their attachments, and support their capacity to differentiate between their own and others' mental states (e.g., feelings, wishes, and beliefs; Oehlman Forbes et al., 2020). Moreover, given the well-known relationship between maltreatment and emotional dysregulation (Hébert et al., 2018), the dialectical behavior therapy (DBT) approach could be targeted to adolescents and their parents to enhance adolescents' emotion regulations skills and to lower trauma symptoms (Geddes et al., 2013). In addition, this approach has been effective in fostering all family members' contributions to build or promote a mutually validating environment (Hoffman et al., 1999). In this direction, our findings on the association between CEN and loneliness toward parents through emotional detachment may offer further insights on relevant areas of intervention.

Starting with our results, future studies should consider specific samples of adolescents. For instance, whether the proposed model is replicable with adolescents who have a severe impairment of self-other differentiation, such as borderline personality disorder (Musetti et al., 2021), can be verified. Therefore, further clinical studies are needed to extend this line of research and provide more definitive significance for public health. Another avenue for future research could focus on the differences in loneliness toward different caregivers. In fact, previous research has reported differences in the trajectories of maternal and paternal relations across adolescence (Levitt et al., 2007). To gain supplementary insight into the role of emotional detachment as a regulatory strategy to compensate weak SOD found in this study, future research using qualitative methods may be helpful for understanding in depth the subjective experiences of adolescents with a history of CEN,

1	and for uncovering other factors involved in the complex relationships between the examined
2	variables. Most important, future longitudinal studies are needed to confirm these findings and to
3	investigate their stability and continuity from adolescence to early adulthood.
4	
5	References
6	Ainsworth, M. D. S. (1991). Attachments and other affectional bonds across the life cycle. In C. M.
7	Parkes, J. Stevenson-Hinde, & P. Marris (Eds.), Attachment across the life cycle (pp. 33-51).
8	Routledge.
9	Alink, L. R. A., Cicchetti, D., Kim, J., & Rogosch, F. A. (2012). Longitudinal associations among
10	child maltreatment, social functioning, and cortisol regulation. Developmental Psychology,
11	48(1), 224–236. https://doi.org/10.1037/a0024892
12	Alto, M., Handley, E., Rogosch, F., Cicchetti, D., & Toth, S. (2018). Maternal relationship quality
13	and peer social acceptance as mediators between child maltreatment and adolescent depressive
14	symptoms: Gender differences. Journal of Adolescence, 63, 19–28.
15	https://doi.org/10.1016/j.adolescence.2017.12.004
16	Arslan, G. (2018). Psychological maltreatment, social acceptance, social connectedness, and
17	subjective well-being in adolescents. Journal of Happiness Studies, 19(4), 983-1001.
18	https://doi.org/10.1007/s10902-017-9856-z
19	Barach, P.M. (1991). Multiple personality disorder as an attachment disorder. <i>Dissociation</i> , 4(1),
20	117-123.
21	Barreto, M., Victor, C., Hammond, C., Eccles, A., Richins, M. T., & Qualter, P. (2021). Loneliness
22	around the world: Age, gender, and cultural differences in loneliness. Personality and
23	Individual Differences, 169, 110066. https://doi.org/10.1016/j.paid.2020.110066
24	Bateman, A., & Fonagy, P. (2004). Psychotherapy for borderline personality disorder:
25	Mentalization-based treatment. Oxford University Press.
26	Bentler, P.M., & Bonnet, D.C. (1980). Significance Tests and Goodness of Fit in the Analysis of

Covariance Structures. Psychological Bulletin, 88 (3), 588-606.

- Bernstein, D.P, & Fink, L. (1998). *Childhood Trauma Questionnaire: A retrospective self-report manual*. The Psychological Corporation.
- Bernstein, D. P., Stein, J. A., Newcomb, M. D., Walker, E., Pogge, D., Ahluvalia, T., Stokes, J.,
 Handelsman, L., Medrano, M., Desmond, D., & Zule, W. (2003). Development and validation
 of a brief screening version of the Childhood Trauma Questionnaire. *Child Abuse & Neglect*,
 27(2), 169–190. https://doi.org/10.1016/S0145-2134(02)00541-0
- Beyers, W., Goossens, L., Van Calster, B., & Duriez, B. (2005). An alternative substantive factor structure of the emotional autonomy scale. *European Journal of Psychological Assessment*,

21(3), 147–155. <u>https://doi.org/10.1027/1015-5759.21.3.147</u>

- Blos, P. (1967). The second individuation process of adolescence. *The psychoanalytic study of the child*, *22*(1), 162-186
- *child*, *22*(1), 162-186 *child*, *22*(1), 162-186
 Blos, P. (1979). *The adolescent passage*. International Universities Press.

Blunch, N. (2008). Introduction to structural equation modeling using SPSS and AMOS. Sage.

Bowlby, J. (1969). Attachment and loss: Vol. 1. Attachment. Basic Books.

Bowlby, J. (1973). Attachment and loss: Vol. 2. Separation: Anxiety and anger. Basic Books.

Bowlby, J. (1980). Attachment and loss: Vol. 3. Sadness and depression. Basic Books.

Bowlby, J. (1988). *A secure base: Clinical applications of attachment theory*. Routledge.

Breidenstine, A. S., Bailey, L. O., Zeanah, C. H., & Larrieu, J. A. (2011). Attachment and trauma in early childhood: A review. *Journal of Child & Adolescent Trauma*, 4(4), 274–290.

https://doi.org/10.1080/19361521.2011.609155

Briere, J. (2002). Treating adult survivors of severe childhood abuse and neglect: Further
development of an integrative model. In J. E. B. Myers, L. Berliner, J. Briere, C. T. Hendrix,
C. Jenny, & T. A. Reid (Eds.), *The APSAC handbook on child maltreatment* (pp. 175–203).
SAGE Publications.

Brown, T. A. (2006). Confirmatory factor analysis for applied research. The Guilford Press.

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25

- Canham, H. (2006). "Where do babies come from?" What makes children want to learn? In B.Youell (Ed.), *The learning relationship: Psychoanalytic thinking in education* (pp. 7-19).Karnac Books.
- Cassidy, J. (2000). Adult romantic attachments: A developmental perspective on individual differences. *Review of General Psychology*, 4(2), 111–131. https://doi.org/10.1037/1089-2680.4.2.111
- Cicchetti, D., & Toth, S. L. (2005). Child maltreatment. *Annual Review of Clinical Psychology*, *1*(1), 409–438. https://doi.org/10.1146/annurev.clinpsy.1.102803.144029

Cohen, J. (1992). A power primer. Psychological Bullettin, 112 (1), 155-159.

- Corsano, P., Grazia, V., & Molinari, L. (2019). Solitude and loneliness profiles in early adolescents: A person-centred approach. *Journal of Child and Family Studies*, *28*(12), 3374–3384. https://doi.org/10.1007/s10826-019-01518-1
- Corsano, P., Majorano, M., Musetti, A., & Antonioni, M. C. (2014). Autonomia emotiva e solitudine in adolescenti con abuso di sostanze [Emotional autonomy and solitude in adolescent substance abusers]. *Psicologia Clinica dello Sviluppo*, *18*(2), 257–278.

Csikszentmihalyi, M., & Larson, R. (1984). *Being adolescent: Conflict and growth in the teenage years*. Basic Books.

- Cui, S., Cheng, Y., Xu, Z., Chen, D., & Wang, Y. (2011). Peer relationships and suicide ideation and attempts among Chinese adolescents. *Child: Care, Health and Development*, *37*(5), 692–702. https://doi.org/10.1111/j.1365-2214.2010.01181.x
- Favotto, L., Michaelson, V., Pickett, W., & Davison, C. (2019). The role of family and computermediated communication in adolescent loneliness. *PLoS ONE*, *14*(6), e0214617. https://doi.org/10.1371/journal.pone.0214617
- Flett, G. L., Goldstein, A. L., Pechenkov, I. G., Nepon, T., & Wekerle, C. (2016). Antecedents, correlates, and consequences of feeling like you don't matter: Associations with maltreatment, loneliness, social anxiety, and the five-factor model. *Personality and Individual Differences*,

EMOTIONAL NEGLECT AND PARENT-RELATED LONELINESS

92, 52-56. https://doi.org/10.1016/j.paid.2015.12.014

Fonagy, P., & Target, M. (1997). Attachment and reflective function: Their role in selforganization. *Development and Psychopathology*, 9(4), 679–700.

https://doi.org/10.1017/s0954579497001399

- Galanaki, E. P. (2004). Are children able to distinguish among the concepts of aloneness,
 loneliness, and solitude? *International Journal of Behavioral Development*, 28(5), 435–443.
 https://doi.org/10.1080/01650250444000153
- Galanaki, E. P. (2013). Solitude in children and adolescents: A review of the research literature. *Psychology and Education*, *50*(3–4), 79–88.

Gaudin, J. M. (1999). Child neglect: Short-term and long-term outcomes. In H. Dubowitz (Ed.), *Neglected children: Research, practice, and policy* (pp. 89–108). Sage Publications.

- Geddes, K., Dziurawiec, S., & Lee, C. W. (2013). Dialectical behaviour therapy for the treatment of emotion dysregulation and trauma symptoms in self-injurious and suicidal adolescent females:
 A pilot programme within a community-based child and adolescent mental health service. *Psychiatry Journal*, 2013, 1–10. https://doi.org/10.1155/2013/145219
- Gilbert, R., Widom, C. S., Browne, K., Fergusson, D., Webb, E., & Janson, S. (2009). Burden and consequences of child maltreatment in high-income countries. *The Lancet*, 373(9657), 68–81. https://doi.org/10.1016/S0140-6736(08)61706-7

Gladstone, G. L., Parker, G. B., Mitchell, P. B., Malhi, G. S., Wilhelm, K., & Austin, M. P. (2004).
Implications of childhood trauma for depressed women: An analysis of pathways from
childhood sexual abuse to deliberate self-harm and revictimization. *American Journal of Psychiatry*, *161*(8), 1417-1425. https://doi.org/10.1176/appi.ajp.161.8.1417

Goossens, L. (2006). Affect, emotion, and loneliness in adolescence. In A. Jackson & L. Goossens (Eds.), *Handbook of adolescent development* (pp. 51–70). Psychology Press.

Goossens, L., Lasgaard, M., Luyckx, K., Vanhalst, J., Mathias, S., & Masy, E. (2009). Loneliness and solitude in adolescence: A confirmatory factor analysis of alternative models. *Personality*

27

and Individual Differences, 47(8), 890-894. https://doi.org/10.1016/j.paid.2009.07.011

- Goossens, L., & Marcoen, A. (1999a). Adolescent loneliness, self-reflection, and identity: From individual differences to developmental processes. In K. J. Rotenberg & S. Hymel (Eds.), *Loneliness in childhood and adolescence* (pp. 225–243). Cambridge University Press.
- Goossens, L., & Marcoen, A. (1999b). Relationships during adolescence: Constructive vs. negative themes and relational dissatisfaction. *Journal of Adolescence*, 22(1), 65–79.
 https://doi.org/10.1006/jado.1998.0201
- Gravetter, F. J., Wallnau, L. B., Forzano, L.-A. B., & Witnauer, J. E. (2020). *Essentials of statistics for the behavioral sciences*. Cengage Learning.
- Hardt, J., & Rutter, M. (2004). Validity of adult retrospective reports of adverse childhood
 experiences: Review of the evidence. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, 45(2), 260–273. https://doi.org/10.1111/j.1469-7610.2004.00218.x
- Hébert, M., Langevin, R., & Oussaïd, E. (2018). Cumulative childhood trauma, emotion regulation, dissociation, and behavior problems in school-aged sexual abuse victims. *Journal of Affective Disorders*, 225(February 2017), 306–312. https://doi.org/10.1016/j.jad.2017.08.044
- Heinrich, L. M., & Gullone, E. (2006). The clinical significance of loneliness: A literature review. *Clinical Psychology Review*, 26(6), 695–718. https://doi.org/10.1016/j.cpr.2006.04.002
- Hoffman, P. D., & Ph, D. (1999). Advances in theory and practice: dialectical behavior therapy family skills training. *Family Process*, *38*, 399–414.

Hu, L. T., & Bentler, P. M. (1999). Cutoff criteria for fit indexes in covariance structure analysis:
 Conventional criteria versus new alternatives. *Structural Equation Modeling*, 6(1), 1–55.
 https://doi.org/10.1080/10705519909540118

- Humenny, G., Grygiel, P., Dolata, R., & Świtaj, P. (2021). Peer network status and depressive symptoms among early adolescents: Testing the mediating effects of metaperception and loneliness. *School Mental Health*, *13*(2), 250–265. https://doi.org/10.1007/s12310-020-09409-
- 74 8 9 10⁹5 11 126 13 $^{14}_{15}7$ 16 $_{17}8$ 18 199 20 $^{21}_{22}$ 23 24**1**1 25 26 27 28 29 30 ³¹ 32¹4 33 34**15** 35 ³⁶ 37 38 39**1**7 40 41**18** 42 ⁴³ 44 9 45 4**20** 47 48 49 50 51 22 52 53 54 3 55 5**2**4 57 58**25** 59 60 6126 62 63 64

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 $\stackrel{1}{^{2}}2$

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1	Hyland, P., Shevlin, M., Cloitre, M., Karatzias, T., Vallières, F., McGinty, G., & Power, J. M.
$^{1}_{^{2}2}_{^{3}2}$	(2019). Quality not quantity: Loneliness subtypes, psychological trauma, and mental health in
$^{4}_{5}$ 3	the US adult population. Social Psychiatry and Psychiatric Epidemiology, 54(9), 1089-1099.
6 7 4	https://doi.org/10.1007/s00127-018-1597-8
74 8 9 10 5	Ingoglia, S., Faraci, P., Musso, P., Lo Coco, A., & Liga, F. (2018). Self-Other differentiation scale:
11 12 6	Dimensionality, IRT parameterization, and measurement invariance. Journal of Genetic
$^{13}_{14}_{15}$ 7	Psychology, 179(1), 40-52. https://doi.org/10.1080/00221325.2017.1415202
16 17 8	Ingoglia, S., Lo Coco, A., Liga, F., & Lo Cricchio, M. G. (2011). Emotional separation and
$\begin{smallmatrix}18\\19\\20\end{smallmatrix}9$	detachment as two distinct dimensions of parent-adolescent relationships. International
$^{21}_{22}$	Journal of Behavioral Development, 35(3), 271–281.
23 24]1 25	https://doi.org/10.1177/0165025410385878
²⁶ 27	Iwaniec, D., Larkin, E., & McSherry, D. (2007). Emotionally harmful parenting. Child Care in
28 29 13	Practice, 13(3), 203-220. https://doi.org/10.1080/13575270701353531
30 ³¹ 3214	Jager, J., Yuen, C. X., Putnick, D. L., Hendricks, C., & Bornstein, M. H. (2015). Adolescent-peer
33 34 15	relationships, separation and detachment from parents, and internalizing and externalizing
35 36 16 37	behaviors: Linkages and interactions. The Journal of Early Adolescence, 35(4), 511-537.
38 39 17	https://doi.org/10.1177/0272431614537116
40 41 42 8	Jenkins, J. H., Sanchez, G., & Lidia Olivas-Hernández, O. (2020). Loneliness, adolescence, and
$42 \\ 43 \\ 44 9$	global mental health: Soledad and structural violence in Mexico. Transcultural Psychiatry,
45 4 20	57(5), 673-687. https://doi.org/10.1177/1363461519880126
$47 \\ 48 \\ 49 \\ 1$	Johnson, H. D., LaVoie, J. C., & Mahoney, M. (2001). Interparental conflict and family cohesion:
50 51 22	Predictors of loneliness, social anxiety, and social avoidance in late adolescence. Journal of
52 53 23 54	Adolescent Research, 16(3), 304-318. https://doi.org/10.1177/0743558401163004
55 5 2 4	Kealy, D., Rice, S. M., & Cox, D. W. (2020). Childhood adversity and depressive symptoms among
57 58 25 59	young adults: Examining the roles of individuation difficulties and perceived social support.
60 61 26	Early Intervention in Psychiatry, 14(2), 241-246. https://doi.org/10.1111/eip.12894
62 63	
64	

65

IRT parameterization, and measurement invariance. Journal of Genetic
(1), 40-52. https://doi.org/10.1080/00221325.2017.1415202
A., Liga, F., & Lo Cricchio, M. G. (2011). Emotional separation and
o distinct dimensions of parent-adolescent relationships. International
tioral Development, 35(3), 271–281.
.1177/0165025410385878
., & McSherry, D. (2007). Emotionally harmful parenting. Child Care in
203-220. https://doi.org/10.1080/13575270701353531
Putnick, D. L., Hendricks, C., & Bornstein, M. H. (2015). Adolescent-peer
paration and detachment from parents, and internalizing and externalizing
ges and interactions. The Journal of Early Adolescence, 35(4), 511-537.
.1177/0272431614537116
z, G., & Lidia Olivas-Hernández, O. (2020). Loneliness, adolescence, and
alth: Soledad and structural violence in Mexico. Transcultural Psychiatry,
https://doi.org/10.1177/1363461519880126
ie, J. C., & Mahoney, M. (2001). Interparental conflict and family cohesion:
eliness, social anxiety, and social avoidance in late adolescence. Journal of
urch, 16(3), 304-318. https://doi.org/10.1177/0743558401163004
, & Cox, D. W. (2020). Childhood adversity and depressive symptoms amon
amining the roles of individuation difficulties and perceived social support.
n in Psychiatry, 14(2), 241-246. https://doi.org/10.1111/eip.12894

Kerig, P. K. (2005). Revisiting the construct of boundary dissolution: A multidimensional perspective. *Journal of Emotional Abuse*, 5(2-3), 5-42. https://doi.org/10.1300/J135v05n02_02
Kerr, M. E., & Bowen, M. (1988). *Family evaluation*. Norton.

Keyes, K. M., Eaton, N. R., Krueger, R. F., McLaughlin, K. A., Wall, M. M., Grant, B. F., & Hasin,

D. S. (2012). Childhood maltreatment and the structure of common psychiatric disorders. *British Journal of Psychiatry*, 200(2), 107–115. https://doi.org/10.1192/bjp.bp.111.093062

Kruse, J., & Walper, S. (2008). Types of individuation in relation to parents: Predictors and outcomes. *International Journal of Behavioral Development*, *32*(5), 390–400.
https://doi.org/10.1177/0165025408093657

Lamborn, S. D., & Steinberg, L. (1993). Emotional autonomy redux: Revisiting Ryan and Lynch. *Child Development*, *64*(2), 483. https://doi.org/10.2307/1131264

Lapsley, D. K., & Edgerton, J. (2002). Separation-individuation, adult attachment style, and college adjustment. *Journal of Counseling and Development*, 80(4), 484–492.
https://doi.org/10.1002/j.1556-6678.2002.tb00215.x

Lasgaard, M., Goossens, L., Bramsen, R. H., Trillingsgaard, T., & Elklit, A. (2011b). Different sources of loneliness are associated with different forms of psychopathology in adolescence. *Journal of Research in Personality*, *45*(2), 233-237.

https://doi.org/10.1016/j.jrp.2010.12.005

Lasgaard, M., Goossens, L., & Elklit, A. (2011a). Loneliness, depressive symptomatology, and suicide ideation in adolescence: Cross-sectional and longitudinal analyses. *Journal of abnormal child psychology*, *39*(1), 137-150. https://doi.org/10.1007/s10802-010-9442-x

Laursen, B., & Hartl, A. C. (2013). Understanding loneliness during adolescence: Developmental changes that increase the risk of perceived social isolation. *Journal of Adolescence*, *36*(6), 1261-1268.

Levitt, M. J., Silver, M. E., & Santos, J. D. (2007). Adolescents in transition to adulthood: Parental support, relationship satisfaction, and post-transition adjustment. *Journal of Adult*

Development, 14(1-2), 53-63. https://doi.org/10.1007/s10804-007-9032-5

Logan-Greene, P., & Semanchin Jones, A. (2018). Predicting chronic neglect: Understanding risk and protective factors for CPS-involved families. *Child and Family Social Work*, *23*(2), 264– 272. https://doi.org/10.1111/cfs.12414

Long, C. R., & Averill, J. R. (2003). Solitude: An exploration of benefits of being alone. *Journal for the Theory of Social Behaviour*, *33*(1), 21–44. https://doi.org/10.1111/1468-5914.00204

- Loos, M. E., & Alexander, P. C. (1997). Differential effects associated with self-reported histories of abuse and neglect in a college sample. *Journal of Interpersonal Violence*, *12*(3), 340–360. https://doi.org/10.1177/088626097012003002
- Lyons-Ruth, K. (1991). Rapprochement or approchement: Mahler's theory reconsidered from the vantage point of recent research on early attachment relationships. *Psychoanalytic Psychology*, 8(1), 1–23. https://doi.org/10.1037/h0079237
- Ma, S., Huang, Y., & Ma, Y. (2020). Childhood maltreatment and mobile phone addiction among Chinese adolescents: Loneliness as a mediator and self-control as a moderator. *Frontiers in Psychology*, *11*(May), 1–8. https://doi.org/10.3389/fpsyg.2020.00813
- Maes, M., Klimstra, T., Van den Noortgate, W., & Goossens, L. (2015). Factor structure and measurement invariance of a multidimensional loneliness scale: Comparisons across gender and age. *Journal of Child and Family Studies*, 24(6), 1829-1837.

https://doi.org/10.1007/s10826-014-9986-4

Mahler, M. S. (1971). A study of the separation-individuation process. *The Psychoanalytic Study of the Child*, *26*(1), 403–424. <u>https://doi.org/10.1080/00797308.1971.11822279</u>

- Majorano, M., Musetti, A., Brondino, M., & Corsano, P. (2015). Loneliness, emotional autonomy and motivation for solitary behavior during adolescence. *Journal of Child and Family Studies*, 24(11), 3436-3447. https://doi.org/10.1007/s10826-015-0145-3
- Marcoen, A., Goossens, L., & Caes, P. (1987). Lonelines in pre-through late adolescence: Exploring the contributions of a multidimensional approach. *Journal of Youth and*

Adolescence, 16(6), 561-577. https://doi.org/10.1007/BF02138821

- Mason, T. B. (2020). Loneliness, eating, and body mass index in parent–adolescent dyads from the Family Life, Activity, Sun, Health, and Eating study. *Personal Relationships*, *27*(2), 420–432. https://doi.org/10.1111/pere.12321
- McWhirter, B. T. (1990). Loneliness: A review of current literature, with implications for counseling and research. *Journal of Counseling & Development*, 68(4), 417–422. https://doi.org/10.1002/j.1556-6676.1990.tb02521.x
- Meleddu, M., & Scalas, L. F. (2002). Validazione di una versione italiana dell'Emotional
 Autonomy Scale [Validation of an Italian version of the Emotional Autonomy Scale]. *Bollettino di Psicologia Applicata*, 238, 43–56.
- Melotti, G., Corsano, P., Majorano, M., & Scarpuzzi, P. (2006). An Italian application of the Louvain Loneliness Scale for Children and Adolescents (LLCA). *Testing Psychometrics Methodology in Applied Psychology*, 13, 237–254.
- Merz, E. M., & Jak, S. (2013). The long reach of childhood. Childhood experiences influence close relationships and loneliness across life. *Advances in Life Course Research*, *18*(3), 212–222. https://doi.org/10.1016/j.alcr.2013.05.002
- Mørkved, N., Winje, D., Dovran, A., Arefjord, K., Johnsen, E., Kroken, R. A., ... Løberg, E. M.
 (2018). Childhood trauma in schizophrenia spectrum disorders as compared to substance abuse disorders. *Psychiatry Research*, *261*, 481–487. https://doi.org/10.1016/j.psychres.2018.01.011
- Musetti, A. (2012). L'autonomia emotiva in adolescenza. Separazione, individuazione e solitudine [Emotional autonomy in adolescence. Separation, individuation and solitude] [Doctoral thesis, Università degli Studi di Parma].

https://www.repository.unipr.it/bitstream/1889/1816/1/Musetti_Tesi Dottorato.pdf

Musetti, A., Corsano, P., Boursier, V., & Schimmenti, A. (2020). Problematic internet use in lonely adolescents: The mediating role of detachment from parents. *Clinical Neuropsychiatry*, 17(1), 3–10. https://doi.org/10.36131/clinicalnpsych20200101

1	Musetti, A., C
$^{1}_{^{2}}_{^{3}}2$	Psychom
$^{4}_{5}$ 3	Adolesce
6 7 4 8	Muthén, L. K.
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11 12 6 13	Newsom, D.,
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16 17 8 18	50(3–4),
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55 5@ 24	Pace, U., & Z
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60 61 2 6	being. Id
62 63 64	

Musetti, A., Giammarresi, G., Goth, K., Petralia, A., Barone, R., Rizzo, R., ... Aguglia, E. (2021).
Psychometric Properties of the Italian Version of the Assessment of Identity Development in
Adolescence (AIDA). *Identity*. https//doi.org/10.1080/15283488.2021.1916748

Muthén, L. K., & Muthén, B. O. (1998-2017). *Mplus user 's guide. Eighth edition*. Muthén & Muthén.

- Newsom, D., Mallow, J., Watson, J., Miner, A., Legg, K., & Theeke, L. A. (2013). Loneliness in school age children: An integrative review of quantitative studies. *Psychology and Education*, 50(3–4), 32–41.
- Ney, P. G., Fung, T., & Wickett, A. R. (1994). The worst combinations of child abuse and neglect. *Child Abuse and Neglect*, *18*(9), 705–714. https://doi.org/10.1016/0145-2134(94)00037-9
- Nichols, M. P., & Schwartz, R. C. (1998). *Family therapy: Concepts and methods* (4th ed.). Allyn & Bacon
- Nichols, M. P., & Schwartz, R. C. (2000). *Family therapy: Concepts and methods* (5th ed.). Allyn & Bacon.
- O'Hara, M., Legano, L., Homel, P., Walker-Descartes, I., Rojas, M., & Laraque, D. (2015). Children neglected: Where cumulative risk theory fails. *Child Abuse and Neglect*, *45*, 1–8. https://doi.org/10.1016/j.chiabu.2015.03.007
- Oehlman Forbes, D., Lee, M., & Lakeman, R. (2021). The role of mentalization in child psychotherapy, interpersonal trauma, and recovery: A scoping review. *Psychotherapy*, 58(1), 50–67. https://doi.org/10.1037/pst0000341
- Olver, R. R., Aries, E., & Batgos, J. (1989). Self-other differentiation and the mother-child relationship: The effects of sex and birth order. *The Journal of Genetic Psychology*, *150*(3), 311–322. https://doi.org/10.1080/00221325.1989.9914600

Pace, U., & Zappulla, C. (2009). Identity processes and quality of emotional autonomy: The contribution of two developmental tasks on middle-adolescents' subjective wellbeing. *Identity*, 9(4), 323-340. https://doi.org/10.1080/15283480903422798

l	Pace, U., & Zappulla, C. (2010). Relations betwee
$^{1}_{2}_{3}2$	autonomy from parents in adolescence. Jour
$^{4}_{5}$ 3	https://doi.org/10.1007/s10826-010-9364-9
6 7 4 8	Perlman, D., & Peplau, L. A. (1981). Toward a s
9 10 5	Relationships, 3, 31–56.
11 12 6 13	Pitman, A., Mann, F., & Johnson, S. (2018). Adv
$^{13}_{15}$ 7	health problems in young people. The Lance
16 178	https://doi.org/10.1016/S2215-0366(18)304
$\begin{smallmatrix}18\\19\\20\end{smallmatrix}9$	Ponappa, S., Bartle-Haring, S., & Day, R. (2014)
$^{21}_{22}$	during adolescence: A longitudinal perspect
23 24]1 25	https://doi.org/10.1016/j.adolescence.2014.0
26 27 12	Qualter, P., Brown, S. L., Rotenberg, K. J., Vank
28 29 13 30	(2013). Trajectories of loneliness during chi
³¹ 32 ¹ 4	outcomes. Journal of Adolescence, 36(6), 1
33 34 15 35	https://doi.org/10.1016/j.adolescence.2013.0
³⁶ 16	Qualter, P., Vanhalst, J., Harris, R., Van Roekel,
38 39 17	(2015). Loneliness across the life span. Per-
40 41 18 42	264. https://doi.org/10.1177/174569161556
43 44 1 9	Reyome, N. D., Ward, K. S., & Witkiewitz, K. (2
45 4 20 47	relationship between childhood history of e
48 4 9 1	silencing. Journal of Aggression, Maltreatn
50 5 122 52	https://doi.org/10.1080/1092677090353937
⁵ ³ ₂ 3	Rönkä, A. R., Rautio, A., Koiranen, M., Sunnari
55 5 24 57	among adolescent girls and boys: Northern
5825 59	Studies, 17(2), 183-203. https://doi.org/10.2
60 61 26	Russell, D. (1982). The measurement of loneline
62 63 64	
65	

L. A. (1981). Toward a social psychology of loneliness. *Personal* -56.

Johnson, S. (2018). Advancing our understanding of loneliness and mental young people. The Lancet Psychiatry, 5(12), 955–956. 016/S2215-0366(18)30436-X

ng, S., & Day, R. (2014). Connection to parents and healthy separation A longitudinal perspective. Journal of Adolescence, 37(5), 555-566. 016/j.adolescence.2014.04.005

, Rotenberg, K. J., Vanhalst, J., Harris, R. A., Goossens, L., ... Munn, P. of loneliness during childhood and adolescence: Predictors and health of Adolescence, 36(6), 1283–1293.

016/j.adolescence.2013.01.005

- Harris, R., Van Roekel, E., Lodder, G., Bangee, M., ... & Verhagen, M. across the life span. Perspectives on Psychological Science, 10(2), 250-10.1177/1745691615568999
- L. S., & Witkiewitz, K. (2010). Psychosocial variables as mediators of the n childhood history of emotional maltreatment, codependency, and selfof Aggression, Maltreatment & Trauma, 19(2), 159–179.

, Koiranen, M., Sunnari, V., & Taanila, A. (2014). Experience of loneliness girls and boys: Northern Finland Birth Cohort 1986 study. Journal of Youth -203. https://doi.org/10.1080/13676261.2013.805876

measurement of loneliness. In L. A. Peplau & D. Perlman (Eds.),

Loneliness: A sourcebook of current theory, research and therapy (pp. 81–104). Wiley New York.

Ryan, R. M., & Lynch, J. H. (1989). Emotional autonomy versus detachment: Revisiting the vicissitudes of adolescence and young adulthood. *Child Development*, 60(2), 340–356. https://doi.org/10.1111/j.1467-8624.1989.tb02720.x

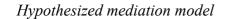
- Ryan, R. M., Deci, E. L., Grolnick, W. S., & La Guardia, J. G. (2006). The significance of autonomy and autonomy support in psychological development and psychopathology. In D. Cicchetti & D. Cohen (Eds.), *Developmental Psychopathology. Vol. 1. Theory and methods* (pp. 795–849). John Wiley & Sons. https://doi.org/10.1002/9780470939383.ch20
- Sacchi, C., Vieno, A., & Simonelli, A. (2018). Italian validation of the Childhood Trauma Questionnaire—Short Form on a college group. *Psychological Trauma: Theory, Research, Practice, and Policy*, 10(5), 563-571. https://doi.org/10.1037/tra0000333
- Santini, Z. I., Pisinger, V. S. C., Nielsen, L., Madsen, K. R., Nelausen, M. K., Koyanagi, A., ...
 Meilstrup, C. (2021). Social disconnectedness, loneliness, and mental health among adolescents in Danish high schools: A nationwide cross-sectional study. *Frontiers in Behavioral Neuroscience*, 15. https://doi.org/10.3389/fnbeh.2021.632906
- Schwartz-Mette, R. A., Shankman, J., Dueweke, A. R., Borowski, S., & Rose, A. J. (2020).
 Relations of friendship experiences with depressive symptoms and loneliness in childhood and adolescence: A meta-analytic review. *Psychological Bulletin*, *146*(8), 664–700.
 https://doi.org/10.1037/bul0000239
- Sharp, C., Venta A. (2013). Minding the child. In N. Midgley & I. Vrouva (Eds.), *Minding the Child: Mentalization-Based Interventions with Children, Young People and their Families*.
 Routledge. https://doi.org/10.4324/9780203123003
 - Shovestul, B., Han, J., Germine, L., & Dodell-Feder, D. (2020). Risk factors for loneliness: The high relative importance of age versus other factors. *PLoS ONE*, *15*(2), e0229087.
 - https://doi.org/10.1371/journal.pone.0229087

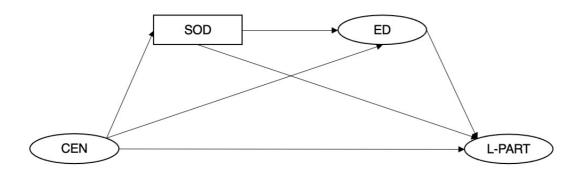
1	Skowron, E. A. (2000). The role of differentiation of self in marital adjustment. Journal of
$^{1}_{2}_{3}2$	Counseling Psychology, 47(2), 229-237. https://doi.org/10.1037/0022-0167.47.2.229
$\frac{4}{5}$ 3	Skowron, E. A., & Friedlander, M. L. (1998). The differentiation of self inventory: Development
6 7 4 8	and initial validation. Journal of Counseling Psychology, 45(3), 235-246.
9 10 5	https://doi.org/10.1037/0022-0167.45.3.235
11 12 6	Smith, C. A., Ireland, T. O., & Thornberry, T. P. (2005). Adolescent maltreatment and its impact on
13 14 15 7	young adult antisocial behavior. Child Abuse and Neglect, 29(10), 1099–1119.
16 17 8	https://doi.org/10.1016/j.chiabu.2005.02.011
18 19 9 20	Steinberg, L., & Silverberg, S. B. (1986). The vicissitudes of autonomy in early adolescence. Child
$^{21}_{22}$	Development, 57, 841-851.
23 24 11 25	Stickley, A., Koyanagi, A., Koposov, R., Blatný, M., Hrdlička, M., Schwab-Stone, M., & Ruchkin,
²⁶ 27	V. (2016). Loneliness and its association with psychological and somatic health problems
28 29 13	among Czech, Russian and U.S. adolescents. BMC Psychiatry, 16(1), 128.
30 31 32 4	https://doi.org/10.1186/s12888-016-0829-2
33 34 15	Stoltenborgh, M., Bakermans-Kranenburg, M. J., & van IJzendoorn, M. H. (2013). The neglect of
35 36 16 37	child neglect: A meta-analytic review of the prevalence of neglect. Social Psychiatry and
38 39 17	Psychiatric Epidemiology, 48(3), 345-355. https://doi.org/10.1007/s00127-012-0549-y
40 41 18 42	Thomas, V., & Azmitia, M. (2019). Motivation matters: Development and validation of the
${}^{43}_{44}9$	motivation for solitude scale-short form (MSS-SF). Journal of Adolescence, 70, 33-42.
45 4 20 47	https://doi.org/10.1016/j.adolescence.2018.11.004
48 4921	Viola, T. W., Salum, G. A., Kluwe-Schiavon, B., Sanvicente-Vieira, B., Levandowski, M. L., &
50 5 122 52	Grassi-Oliveira, R. (2015). The influence of geographical and economic factors in estimates of
⁵³ 23	childhood abuse and neglect using the Childhood Trauma Questionnaire: A worldwide meta-
55 5@24	regression analysis. Child Abuse and Neglect, 51, 1-11.
57 58 25 59	https://doi.org/10.1016/j.chiabu.2015.11.019
60 61 2 6	Waters, E., & Cummings, E. M. (2000). A secure base from which to explore close relationships.

Child Development, 71(1), 164–172. https://doi.org/10.1111/1467-8624.00130

- Wei, M., Vogel, D. L., Ku, T. Y., & Zakalik, R. A. (2005). Adult attachment, affect regulation, negative mood, and interpersonal problems: The mediating roles of emotional reactivity and emotional cutoff. *Journal of Counseling Psychology*, 52(1), 14–24.
 - https://doi.org/10.1037/0022-0167.52.1.14
- Whittle, S., Dennison, M., Vijayakumar, N., Simmons, J. G., Yücel, M., Lubman, D. I., ... Allen,
 N. B. (2013). Childhood maltreatment and psychopathology affect brain development during adolescence. *Journal of the American Academy of Child and Adolescent Psychiatry*, *52*(9).
 https://doi.org/10.1016/j.jaac.2013.06.007
- Wong, A. E., Dirghangi, S. R., & Hart, S. R. (2019). Self-concept clarity mediates the effects of adverse childhood experiences on adult suicide behavior, depression, loneliness, perceived stress, and life distress. *Self and Identity*, 18(3), 247–266.
 - https://doi.org/10.1080/15298868.2018.1439096
- Zhu, X., Huebner, E. S., & Tian, L. (2019). A person-centered longitudinal analysis of adolescents' loneliness and social anxiety: Clusters, predictors, and outcomes. *School Psychology*, 34(5), 576–589. https://doi.org/10.1037/spq0000328
- Zonash, R., & Arouj, K. (2019). Obesity an emerging epidemic: Effects and consequences of loneliness and perceived parental neglect. *Journal of Islamic International Medical College Ouarterlv*, 14(2), 65–71.
- ² 2 $^{4}_{5}$ 3 10⁹5 $^{14}_{15}7$ $^{21}_{22}$ **1**1 25 27 28 29 30 ³¹ 32¹4 34**15** ³⁶ 37 39**1**7 **18** 42 ${}^{4\,3}_{4\,4}\!\!19$ 4 @ 0

Figure 1





Note: CEN = Childhood Emotional Neglect; SOD = Self-Other Differentiation; ED = Emotional Detachment; L-PART = Parent-related loneliness. Age and gender are not shown but were included as control variables for all variables.

Table 1Descriptive Statistics for all investigated variables

	Overall M (± SD)	Ranges	Skewness	Kurtosis	Males (n = 195) M (± SD)	Females (n = 340) M (\pm SD)
CEN	8.98 (± 4.03)	5–25	1.37	1.62	8.88 (± 3.90)	9.04 (± 4.12)
SOD	6.26 (± 2.68)	0-11	-0.16	-0.72	7.16 (± 2.81)	5.74 (± 2.45)
ED	24.18 (± 5.12)	10–39	-0.18	-0.27	24.31 (± 5.06)	24.11 (± 5.16)
L-PART	21.59 (± 7.34)	12-47	1.11	0.87	21.31 (± 6.13)	21.75 (±7.95)

Note: 1. M = Mean; SD = Standard Deviation; CEN = Childhood Emotional Neglect; SOD = Self-Other Differentiation; ED = Emotional Detachment; L-Part = Parent-related loneliness.

Correlations between Parent-related Loneliness, Childhood Emotional Neglect, Self-Other Differentiation and Emotional Detachment

	1.	2.	3.	4.	5.	6.
1. Age						
2. Gender	-0.06	-				
3. CEN	0.15**	0.02	-			
4. SOD	-0.02	-0.26***	-0.11*	-		
5. ED	-0.02	-0.02	0.31***	-0.29***	-	
6. L-PART	0.09*	0.03	0.69***	-0.16***	0.51***	-

Note: CEN = Childhood Emotional Neglect; SOD = Self-Other Differentiation; ED = Emotional Detachment; L-PART = Parent-related loneliness.

* p < .05 ** p < .01 *** p < .001.

Table 3

Standard errors and confidence intervals for direct, indirect and total standardized estimates.

			95% CI	
Variables	Estimate	SE	Lower bound	Upper bound
CEN				
Direct effect on L-Part	0.64***	0.04	0.57	0.72
Indirect effect on L-Part through SOD	-0.01	0.01	-0.02	0.00
Indirect effect on L-Part through ED	0.16***	0.03	0.11	0.21
Indirect effect on L-Part through SOD and ED	0.02*	0.01	0.00	0.03
Total effect on L-Part	0.81***	0.03	0.76	0.86
Direct effect on SOD	-0.11*	0.05	-0.18	-0.03
Direct effect on ED	0.40***	0.06	0.31	0.50
SOD				
Direct effect on L-Part	0.08*	0.04	0.02	0.14
Direct effect on ED	-0.35***	0.05	-0.42	-0.27
ED				
Direct effect on L-Part	0.40***	0.05	0.31	0.49

Note: CEN = Childhood Emotional Neglect; SOD = Self-Other Differentiation; ED = Emotional Detachment; L-Part = Parent-related loneliness.