

Adjustment to Parental Death During Mid-life: The Moderating Roles of Attachment Orientations and Being a Holocaust Surviving Offspring

Cohen, Michal
Berant, Ety
Mikulincer, Mario

Adjustment to Parental Death During Mid-life: The Moderating Roles of Attachment Orientations and Being a Holocaust Surviving Offspring
PSOCIAL, vol. 9, núm. 1, 2023
Universidad de Buenos Aires

Disponible en: <https://www.redalyc.org/articulo.oa?id=672375605002>

Adjustment to Parental Death During Mid-life: The Moderating Roles of Attachment Orientations and Being a Holocaust Surviving Offspring

Michal Cohen
Department of Psychology, Israel
Ety Berant
Baruch Ivcher School of Psychology, Israel
Mario Mikulincer
Baruch Ivcher School of Psychology, Israel
mario@runi.ac.il



Acceso abierto diamante

Abstract

The current study examined how being a Holocaust Surviving Offspring (HSO) and his or her attachment orientation might affect mid-life offspring's reactions to parental loss. Sample included 146 Israel mid-life adults: 61 who were grieving for their aging parents and 85 non-grieving participants. Each group included HSO and non-HSO who completed attachment orientations and mental health questionnaires. Findings indicated that grieving participants reported worse mental health than non-grieving participants only if their recently dead parent was a Holocaust survivor and they scored relatively high on attachment anxiety. The discussion deal with the mechanisms underlying adjustment to parental death during mid-life.

Keywords: Mid-life Parental Death, Attachment, Holocaust, Mental Health.

Introduction

Losing a parent is a stressful experience (see McKay et al., 2021, for a review) and its psychological impact are particularly dramatic during childhood (e.g., Nickerson et al., 2011). However, naturally most people will deal with parental death during mid-life (Hooyman & Kramer, 2006). And although the death of a parent during this age is an expected event, it still can be a source of distress (e.g., Marks et al., 2007). Surprisingly, to date only few studies have examined the effect of death of an old-age parent on mid-life offspring's mental health (Marks et al., 2007; Umberson, 2003). In addition, no study has examined the psychological factors and processes that underlie these effects and explain individual variations in mid-life offspring's grief reactions to the death of an old-age parent. In order to fill in this empirical gap, we explored the association between losing a parent and mid-life offspring's mental health while examining the potential role of two factors that have an impact on parent-child relationships and can affect grief reactions to parental death: offspring's attachment orientations and being a Holocaust Survivor offspring (HSO).

Attachment orientations and Emotional Responses to the Death of a Loved Person

Bowlby's (1973, 1982) attachment theory provides a coherent and empirically-validated conceptual framework for understanding both the quality of parent-child relationship and individual differences in grief responses to the death of loved ones. In Bowlby's (1973) view, early interactions with responsive and supportive caregivers, usually the parents, in times of need contribute to the formation of an inner sense of security (i.e., confidence that one is socially valued and that others will be available and helpful when needed) and positive beliefs about the self and others. However, when caregivers are rejecting, unreliable, or focused on their own needs and distress, the sense of security is destabilized and attachment-related worries and anxieties tend to emerge in the form of insecure attachment (Bowlby, 1973).

To date, attachment orientations are conceptualized in terms of a two-dimensional space defined by two roughly orthogonal dimensions, attachment anxiety and attachment-related avoidance (e.g., Brennan et al., 1998). Attachment anxiety reflects worries that others will not be available when needed; doubts about one's lovability and worth; and energetic, angry, and sometimes coercive, searching for support, love, and care (what Cassidy & Kobak, 1988, called hyperactivating strategies). Avoidant attachment reflects distrust in others' intentions, compulsive self-reliance, dismissal of needs for relatedness and intimacy, and suppression of attachment-related thoughts and feelings (what Cassidy & Kobak, 1988, called deactivating strategies). People who score low on both dimensions have a prominent sense of attachment security. There are reliable and valid self-report scales to measure these two dimensions (e.g., the Experiences in Close Relationships scale, Brennan et al., 1998).

There is evidence that attachment orientations are relevant for explaining individual differences in grief reactions. Secure attachment allows a person to work through the loss experience and return to normal functioning (Fraley & Shaver, 2016). Secure people can recall and think about the lost partner without extreme difficulty and can discuss the loss coherently without being overwhelmed by pain and distress (Hesse, 2016). In contrast, attachment-anxious people's overdependence on the lost person's attention and care might heighten distress, complicate the grief process, and delay return to normal functioning (Mikulincer & Shaver, 2013). Indeed, several studies have shown that attachment anxiety contributes to heightened and more prolonged distress following the death of a loved person (Field & Sundin, 2001; Jerga et al., 2011). For example, Fraley and Bonanno (2004) found that attachment anxiety assessed 4 months after the loss of a spouse predicted higher levels of distress, trauma-related symptoms, and alcohol consumption 18 months following the loss.

Adult attachment studies found no association between avoidant attachment and heightened distress following the death of a relationship partner (Field & Sundin, 2001; Fraley & Bonanno, 2004), but Wayment and Vierthaler (2002) found that avoidance was associated with increased somatic symptoms during the grief process. Interestingly, Jerga et al. (2011) found that the lack of avoidance-distress

association was explained by the extent to which avoidant people felt close with the deceased partner. Avoidant people seem to maintain a cold and distant relationship with the deceased, which in turn leaves them with less to grieve about.

Although all the studies conducted on the attachment-grief link have focused on the death of a spouse, we hypothesize that attachment anxiety would also heighten distress of mid-life adults coping with the death of a parent. This is a novel hypothesis as no published study to date has examined the role of attachment insecurities in the context of parental death during mid-life.

Parent's Trauma-Related History and Emotional Reactions to Parental Death: The Case of Holocaust Survivors Offspring

As mentioned earlier, a person's attachment orientations seemed to depend on parents' sensitivity and responsiveness to his or her needs for protection and support in times of need. Research has shown that parents' trauma-related history can lead to major difficulties in properly fulfilling these parental duties (De Haene et al., 2010; Schwerdtfeger & Goff, 2007). In some cases, due to their feelings of powerlessness, as they failed to protect themselves, traumatized parents cannot see themselves as a secure base for their child (Almqvist & Broberg, 2003). In addition, traumatic experiences can heighten parents' psychological problems and then impair their ability to function as a sensitive and responsive attachment figure (Tambelli et al., 2015).

Much has been also written about Holocaust survivors' complicated relationship with their offspring (Wiseman & Barber, 2008). Persecuted by their horrible war memories, many of Holocaust survivors saw the world as dangerous and tended to be anxious and overprotective to their offspring (Bar-On et al., 1998; Brom et al., 2001). In some cases, the surviving parents tend to be overwhelmed by their traumatic memories and then they do not have the necessary resources to function as a sensitive and responsive figure (Brom et al., 2001; Shrira et al., 2019). In other cases, researchers have documented a role reversal between parents and children, by which the HSO attempts to protect the traumatized parent (Shrira et al., 2019).

Now days, more than seventy years after the end of WWII, most of Holocaust survivors who are still alive are in their 80s-90s under the care of their offspring. Caring for an aging parent may be particularly demanding and challenging for HSO (Shmotkin et al., 2011; Shrira et al., 2019). Research indicates that HSO describe their parents as particularly vulnerable to aging-related changes, such as illness, frailty, loneliness, and dependency (Shmotkin et al., 2011). Simultaneously, old-age Holocaust survivors tend to report more frequent reactivation of Holocaust-related traumatic memories and unresolved losses (Shmotkin et al., 2011). Hence, HSO are not only burdened by the hard work involved in caring for an aging parent, but also by an urgent need to protect them from further pain, which can lead to guilt feelings for parents' suffering and suppression of anger towards them (Wiseman & Barber, 2008).

A still more challenging event for HSO is the death of their old-age survivor parent. Although caring for an aging parent might be quite arduous, HSO can still maintain a vital relationship with the traumatized parent. In contrast, HSO who have lost their parent, although being "liberated" from the daily hassles and burden involved in caring for an aging parent, are confronted with the "final separation" from the traumatized parent and their irrevocable failure to protect him or her from death. Moreover, parental death can be particularly distressing for HSO, who care for their parents with great devotion, partly due to their ongoing need to compensate for parents' past losses and partly due to their guilt feelings (Kellermann, 2009). In addition, Holocaust survivors have been found to be ambivalent over emotional expression (Ben-Zur & Zimmerman, 2005) and to convey a message that in order to survive one needs to keep emotions bottled up and exhibit a tough façade (Wiseman & Barber, 2008). This 'conspiracy of silence' seemed to refrain HSO from asking their parents about Holocaust experiences, thus building a "double wall of silence" (Bar-On et al., 1998). As a result, a painful void can emerge after the death of the survivor parent and the untold haunting memories might heighten difficulties in calmly accepting parent's death, completing a successful grief process, and restoring emotional equanimity (Brom et al., 2001).

Interviews with Holocaust survivors also revealed that while expecting their children to enjoy life, they also passed on a sense of obligation to the dead, which might pose further difficulties to HSO's grief (Shrira et al., 2019). On this basis, we hypothesize that HSO, as compared to offspring of parents who did not experience the Holocaust atrocities, would react with heightened distress to the death of a parent. We also hypothesize that the detrimental effects of attachment anxiety would be more pronounced among HSO who might find harder to accept parent's death

The current study

In order to examine the above hypotheses, we conducted a cross-sectional study with Israeli mid-life adults who lost one of their parent in the last three months before the study (grieving group) or did not lose a parent during this period (non-grieving group). In each of these two groups, we sampled participants who were either HSO or non-HSO. All the participants completed scales tapping their attachment orientations and their current psychological well-being and psychological distress. Our prediction was that differences between grieving and non-grieving groups in well-being and distress would be moderated by attachment anxiety and lost parent's Holocaust background. Specifically, grieving participants will report higher distress and lower well-being than non-grieving controls mainly when attachment anxiety scores would be relatively high and the lost parent was a Holocaust survivor.

Beyond examining these predictions, we will explore the role of attachment avoidance in explaining emotional responses to parental death. We could not provide ad hoc predictions due to the inconclusive findings concerning the contribution of avoidant attachment to the grief process. We will also explore possible differences between HSO and non-HSO in their level of attachment insecurities.

Method

Participants

The sample included 146 Israeli adults (52 men and 94 women), ranging in age from 40 to 71 years ($M = 55.2$, $SD = 7.81$), who volunteered to participate in the study without receiving any monetary compensation. This specific age range was chosen due to two main reasons. First, many people in this age range are dealing with the loss of their parents (Hooyman & Kramer, 2006). Second, holocaust survivors went through World War II (WWII) during their adolescence or young adulthood and therefore could remember experiences during this period and share them with their offspring. All participants were Israeli-born Jews and their parents were born in Europe or Israel. Most participants were married (120, 82%), secular (120, 82%), with academic education (135, 92.5%) and average or above income (126, 86.3%).

We sampled two groups of participants: (a) participants who were grieving for one of their parents who died in the last three months before the study (grieving group, $n = 61$) and (b) participants who did not lose a parent in the last three months (non-grieving group, $n = 85$). In the grieving group, the other parent was alive at the time of the study or died over a year before. In the non-grieving group, both parents were alive at the time of the study or one parent died over a year before. In each of these groups, we attempted to equally represent HSO and non-HSO participants. Holocaust survivor offspring ($n = 32$ in the grieving group and $n = 40$ in the non-grieving group) were defined as participants whose at least one parent (the dead parent among griever) was at concentration camps, ghettos, or was partisan during WWII, thereby reducing the heterogeneity of the Holocaust experiences. Non-HSO ($n = 29$ in the grieving group and $n = 45$ in the non-grieving group) were defined as participants whose parents immigrated to Israel from Europe before 1939 and their immediate family had no Holocaust background.

There was a significant difference in age between the two groups, $t(144) = -3.22$, $p = .002$. Participants in the grieving group were older ($M = 57.57$, $SD = 6.41$) than those in the non-grieving group ($M = 53.48$, $SD = 8.30$). No significant age difference was found between HSO and non-HSO, $t(144) = -.82$, $p = .41$. In order to control for this unexpected group difference, we introduced participants' age as

a covariate in the analyses examining the study's predictions. No other significant differences were found between study groups in gender, marital status, education, religiosity, and income.

In the grieving group, 50% of the participants reported that their father died in the last three months before the study and 50% reported that their mother died during this period. In 36.1% of grieving participants, the other parent was alive at the time of the study. In the non-grieving groups, 45.9 % of the participants reported that both parents were alive at the time of the study.

Twenty-five percent of HSO reported that only the father was a Holocaust survivor, 18.05% reported that only their mother was a survivor, and 56.95% reported that both parents survived the Holocaust. 50% of them were at concentration camps, 43% were at ghettos, and 7% were partisans during WWII. No significant differences in these variables were found between the grieving HSO and non-grieving HSO groups, $\chi^2s < 6.01$, $p > .06$.

After receiving ethic approval from the university, participants were recruited using direct person-to-person solicitation in social clubs and community centers. In addition, we posted on-line advertisements and called for participation through social networks. We sought first for HSO participants and conducted a phone interview about their parents' Holocaust background, whether their parents are alive, and whether one parent deceased during the last three months. We then asked participants who filled the inclusion criteria their permission to participate in the study. After collecting data in the HSO groups, we sought for controls who matched HSO in age and gender and conducted a similar phone interview to check whether they filled the inclusion criteria. From these phone interviews, 182 participants fitted the inclusion criteria, but only 146 agreed to participate in the study (rejection rate of 19.79%).

Measures and Procedure

After fitting to the inclusion criteria, participants were told that the study deals with quality of life and that it would demand from them to complete a 20-min survey. Participants who agreed to take part in the study signed an informed consent form and completed a battery of three randomly ordered self-report scales tapping attachment orientations and mental health. All the questionnaires were written in Hebrew.

Participants' attachment orientations were assessed with the 36-item Experiences in Close Relationships scale (ECR; Brennan et al., 1998). Participants rated the extent to which each item described their feelings and behaviors in close relationships on a 7-point scale ranging from 1 (not at all) to 7 (very much). Eighteen items assessed attachment anxiety and eighteen assessed attachment-related avoidance. The reliability and validity of the ECR have been repeatedly demonstrated (see Mikulincer & Shaver, 2016, for a review). In this study, Cronbach alphas for anxiety and avoidance scales were high (.82, .87). On this basis, we computed mean scores for each participant on each subscale, with higher scores reflecting higher attachment anxiety ($M = 2.77$, $SD = 0.95$) and avoidance ($M = 3.17$, $SD = 0.87$).

The correlation between the two attachment scores was positive and significant, $r = .50$, $p < .001$. Two-way analysis of variance (ANOVAs) for grieving for the death of a parent (yes, no) and HSO (HSO, non-HSO) revealed no significant main effects or interactions on attachment anxiety and avoidance, all $Fs < 1.03$, all $ps > .382$. That is, study groups did not differ in dispositional attachment orientations.

Mental health was assessed with a brief 15-item version of the Mental Health Inventory (MHI; Florian & Drori, 1990; Veit & Ware, 1983) that was constructed and tested by Davidovitz et al. (2007). This MHI version was found to be highly reliable and valid and consists of six positive-state items tapping psychological well-being and nine negative-state items tapping psychological distress. Participants rated the extent to which each item is descriptive of their affective state over the preceding month on a 6-point scale ranging from 1 (not at all) to 6 (very much). Cronbach α s were high for both the well-being items (.82) and the distress items (.90). On this basis, we computed two total scores for each participant by averaging items that belong to each subscale. Higher scores reflect higher well-being ($M = 4.13$, $SD = 0.84$) and distress ($M = 2.22$, $SD = 0.70$). The two scores were significantly associated, $r = -.73$, $p < .001$.

Data Analyses

The study's predictions were examined with hierarchical regression analyses for psychological well-being and psychological distress with parental death (yes, no), HSO (HSO, non-HSO), and attachment orientations (anxiety, avoidance) as the predictors. Due to the sample size and limitations in statistical power, we could not enter the two attachment scores and all their interactions in a single regression analysis. Therefore, we conducted separated regressions for each attachment score. That is, we computed a set of regressions with parental death, HSO and attachment anxiety as the predictors and another set of regressions with parental death, HSO, and attachment avoidance as the predictors. However, since the two attachment scores were strongly associated in the current sample ($r = .50$), we need to examine the contribution of each attachment score (anxiety or avoidance) while controlling for its association with the other attachment score. For this purpose, before conducting the main hierarchical regression analyses, we regressed each attachment score on the other attachment score (anxiety as predicted by avoidance, avoidance as predicted by anxiety) and computed for each participant the residual score of the regression – i.e., a participant's specific attachment score that was unexplained by the other attachment score. Then, we entered these residual scores in the main hierarchical regressions together with parental death and HSO as the predictors.

The main hierarchical regressions included three steps. In first step, we entered parental death (an effect-coded variable comparing grieving participants, +1, to non-grieving ones, -1), being a HSO (an effect-coded variable comparing HSO, +1, to non-HSO, -1), and the residual score of an attachment dimension (either attachment anxiety or avoidance) in order to examine their unique main effects. In the second step, we entered all the two-way interactions between parental death, being a HSO, and the residual score of an attachment dimension (three interactions). In the third step, we entered the three-way interaction between the predictors. In all these regressions, we included participants' age as a covariate. Simple Slope Effects tests were conducted for examining the source of the significant two- and three-way interactions.

Results

The Contribution of Parental Death, Being a HSO, and Attachment Anxiety

In this section, we report findings from two hierarchical regressions examining main effects and interactions of parental death, being a HSO, and attachment anxiety (unexplained by attachment avoidance) on psychological well-being and psychological distress while controlling for age as a covariate (see relevant statistics in Table 1). The regression model for well-being was significant and explained 30.03% of the variance (see Table 1). In Step 1, the main effects for parental death and attachment anxiety were significant. Fitting the study's prediction, participants who were grieving for a parent's death reported lower levels of well-being than non-grieving participants. In addition, participants scoring higher on attachment anxiety also reported lower levels of well-being (see Table 1). In Step 2, we found significant interactions for parental death x HSO and parental death x attachment anxiety (see Table 1). However, these two-way interactions were qualified by a significant three-way interaction in Step 3 (see Table 1).

In testing the study's prediction, Simple Slope Effects tests revealed that grieving participants reported lower well-being than non-grievers only if they were HSO and scored relatively high on attachment anxiety (+1 SD), $b = -.36$, $SE = .13$, $t = -2.75$, $p = .006$. However, among non-HSO who scored relatively high on attachment anxiety (+1 SD), grieving participants reported higher well-being than non-grievers, $b = .34$, $SE = .14$, $t = 2.48$, $p = .014$. Among HSO or non-HSO who scored relatively low on attachment anxiety, grieving participants did not significantly differ from non-grievers in well-being, $bs < -.24$, all $ps > .070$. As can be seen in Figure 1, the lowest level of well-being was reported by HSO who were grieving a parent's death and scored high on attachment anxiety. But unexpectedly, non-HSO who scored high on attachment anxiety seemed to benefit (heightened well-being) from the death of a parent.

The regression model for psychological distress was also statistically significant and explained 37.60% of the variance (see Table 1). In Step 1, the main effects for parental death and attachment anxiety were

significant. Fitting the study's prediction, participants who were grieving for a parent's death reported higher levels of distress than non-grievers. In addition, participants scoring higher on attachment anxiety also reported higher levels of distress (see Table 1). In Step 2, we found a significant interaction for HSO x anxiety, which was qualified by a significant three-way interaction in Step 3 (see Table 1).

Simple Slope Effects tests revealed that that grieving participants reported higher distress than non-grievers only if they were HSO and scored relatively high on attachment anxiety (+1 SD), $b = .25$, $SE = .11$, $t = 2.33$, $p = .021$. Among non-HSO who scored relatively high on attachment anxiety (+1 SD) or among HSO or non-HSO who scored relatively low on attachment anxiety, grieving participants did not significantly differ from non-grievers in distress, $bs < .14$, all $ps > .208$. As can be seen in Figure 2, the highest level of distress was reported by HSO who were grieving a parent's death and scored high on attachment anxiety.

The Contribution of Parental Death, Being a HSO, and Attachment Avoidance

In this section, we reported findings from two hierarchical regressions examining main effects and interactions of parental death, being a HSO, and attachment avoidance (unexplained by attachment anxiety) on well-being and distress. The regression model for psychological distress was not significant and explained only 10.53% of the variance, $F(8, 135) = 1.99$. However, the regression model for psychological well-being was significant and explained 13.60% of the variance, $F(8, 135) = 2.66$, $p = .006$. Beyond the significant main effect of parental death and the interaction between HSO and parental death that were reported above, the unique and interactive effects of avoidance were not significant $bs < -.11$, all $ps > .147$.

Table 1

| Effect | b (SE) | t | p | β | __95% CI_ LL UL |
|--------------------------|--------------|-------|--------|---------|-----------------|
| Psychological well-being | | | | | |
| Step 1 | | | | | |
| Parental death | -.180 (.072) | -2.49 | .013 | -.200 | -.322 -.037 |
| HSO | -.042 (.070) | -0.63 | .530 | -.040 | -.177 .091 |
| Attachment anxiety | -.380 (.080) | -4.82 | < .001 | -.368 | -.535 -.223 |
| R ² Step 1 | .195 | | | | |
| Step 2 | | | | | |
| HSO x PD | -.200 (.067) | -2.98 | .003 | -.223 | -.332 -.067 |
| HSO x anxiety | -.197 (.077) | -2.45 | .012 | -.191 | -.350 -.043 |
| PD x anxiety | .105 (.077) | 1.36 | .175 | .102 | -.047 .258 |
| ΔR^2 Step 2 | .083 | | | | |
| Step 3 | | | | | |
| HSO x PD x anxiety | -.156 (.076) | -2.04 | .043 | -.150 | -.307 -.004 |
| ΔR^2 Step 3 | .022 | | | | |
| Total R ² | .300 | | | | |
| F (8, 135) | 7.24*** | | | | |
| Psychological distress | | | | | |
| Step 1 | | | | | |
| Parental death | .120 (.057) | 2.07 | .040 | .164 | .005 .234 |
| HSO | .060 (.054) | 1.09 | .278 | .082 | -.048 .167 |
| Attachment anxiety | .304 (.063) | 4.81 | < .001 | .365 | .179 .429 |
| R ² Step 1 | .207 | | | | |
| Step 2 | | | | | |
| HSO x PD | .053 (.055) | 0.96 | .340 | .073 | -.056 .162 |
| HSO x anxiety | .161 (.064) | 2.52 | .013 | .193 | .034 .288 |
| PD x anxiety | .010 (.063) | 0.17 | .868 | .012 | -.115 .136 |
| ΔR^2 Step 2 | .041 | | | | |
| Step 3 | | | | | |
| HSO x PD x anxiety | .145 (.063) | 2.29 | .023 | .171 | .019 .269 |

| | |
|---------------------|---------|
| ΔR^2 Step 3 | .027 |
| Total R^2 | .276 |
| F (8, 135) | 6.43*** |

Regression Analyses for Psychological Well-Being and Psychological Distress as a Function of Parental Death, HSO, and Attachment Anxiety

Note. PD = Parental Death; HSO = Holocaust Survivor Offspring; *** $p < .001$

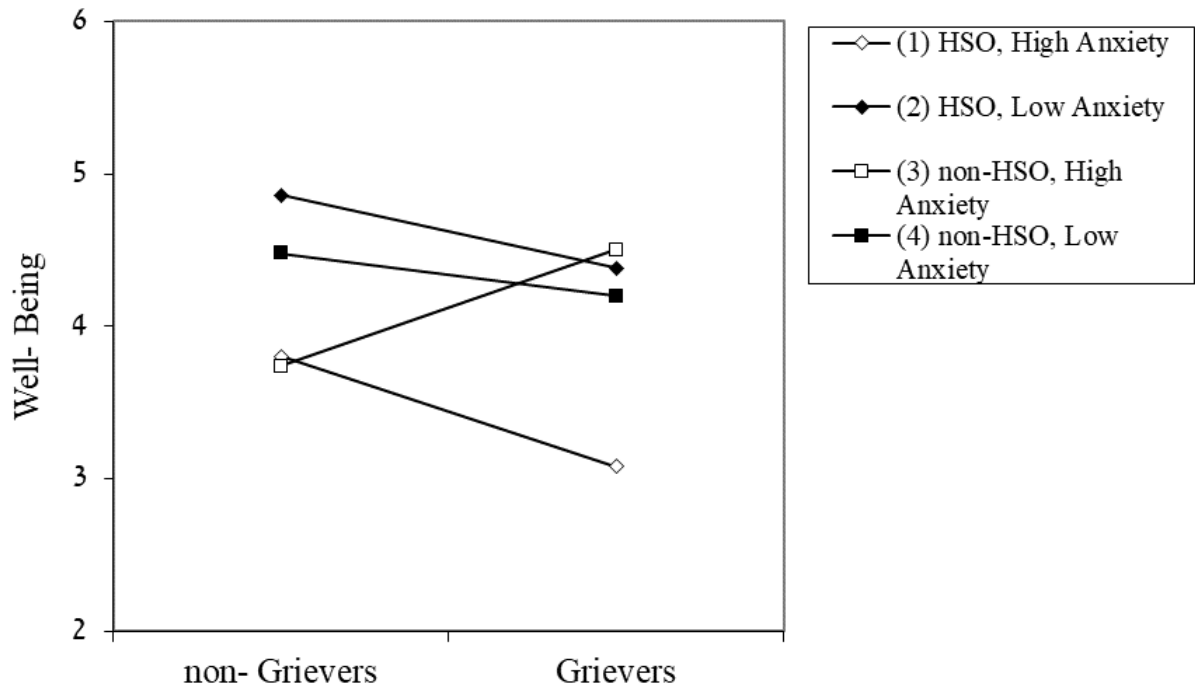


Figure 1
Psychological Well-Being as a Function of Parental Death, HSO, and Attachment Anxiety

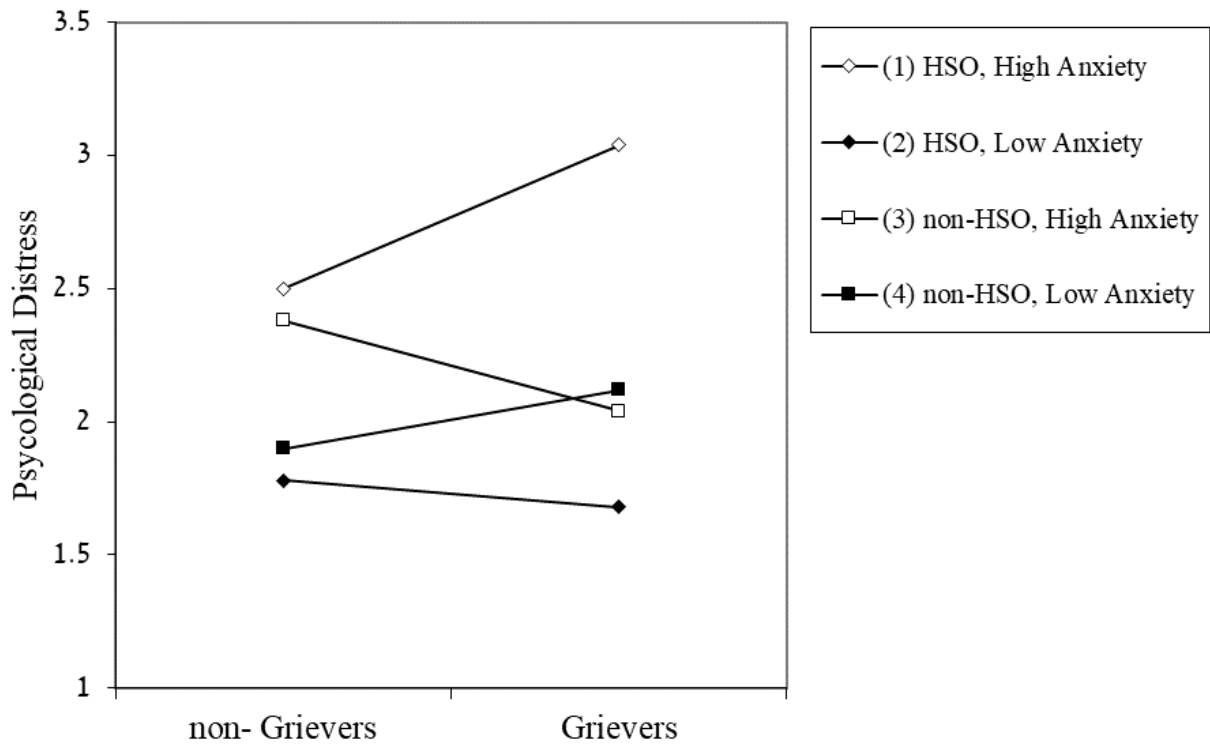


Figure 2
Psychological Distress as a Function of Parental Death, HSO, and Attachment Anxiety

Discussion

Our initial analyses revealed significant differences in mental health between mid-life adults who were dealing with parental death and those whose parents were still alive. These findings expand the literature about the difficulties that arise among grieving offspring, since it usually focuses on parental loss during childhood (e.g., Nickerson et al., 2011). Accordingly, it seems that even at an old age, when the death of a parent is an expected event, losing a parent is accompanied by pain and distress.

In addition, our study suggests that parental trauma history and offspring's attachment orientations matter. We found that losing a parent was associated with higher levels of distress and lower levels of well-being only when grievors were HSO and reported relatively high attachment anxiety. These findings are in line with previous findings showing that HSO tends to exhibit heightened emotional problems only after exposure to life stressors (e.g., Solomon et al., 1988; van IJzendoorn et al., 2003). However, our findings also add that being a HSO is not enough for disguising grievors' difficulties. Rather, these difficulties seem to be mainly observed among emotionally vulnerable HSO, such as attachment-anxious people, who do not have the needed mental resources for adjusting to parental death and restoring emotional stability.

From a more salutogenic perspective, our findings indicated that possession of psychological resources for coping with parental death, such attachment security (relatively low scores in attachment anxiety) can prevent emotional and relational problems among grievors. This conclusion is in line with Mikulincer and Shaver's (2016) view of attachment security as an inner resource that builds one's resilience for dealing with life threats and challenges. However, one should take into account that we did not directly assessed or manipulated grievors sense of attachment security, but only inferred it from being not anxiously attached (which in fact might also include those who score high on avoidant attachment). Further studies should attempt to directly measure the sense of attachment security or manipulate its contextual accessibility and examine whether it can protect HSO from being emotionally flooded by life stressors.

Our findings were also in line with the existing literature regarding the contribution of attachment anxiety to emotional problems and maladjustment following death of a loved one (see Fraley & Shaver, 2016; and Mikulincer & Shaver, 2013, for extensive reviews). Fitting our prediction, parental death was associated with lower well-being and higher distress only among offspring who score relatively high on attachment anxiety, and this effect was mainly found among HSO. It seems that attachment-anxious people's problems in constructively coping with loss (Fraley & Shaver, 1997) might have complicated the grief process after parental death. This is a novel finding, since most of the studies conducted on the link between attachment anxiety and grief have focused on the death of a spouse. Our findings show that the same complications derived from attachment anxiety can be observed when grieving for the death of a parent at mid-life mainly when this parent was a Holocaust survivor. Probably, anxious hyperactivation of attachment needs might compound the guilt feelings HSO might experience due to their sense of failure to protect the traumatized parent (Wiseman & Barber, 2008).

Another intriguing, but unexpected, set of findings revealed that parental death was associated with higher well-being among non-HSO who scored high on attachment anxiety. When caring for an aging parent, attachment-anxious people might be over-involved and experience heightened levels of emotional burden (Carpenter, 2001), which, in turn, might impoverish life quality. Therefore, the death of their parent might free attachment-anxious people from this burden and improve their well-being. This can explain the observed grief reactions among non-HSO. One should note that this is only a post hoc speculation, since we did not measure caregiving burdens and relief from these burdens following parental death. Further studies should examine more systematically this post hoc explanation.

With regard to attachment-related avoidance, findings indicated no significant contribution to variations in well-being and distress following parental death. This finding is consistent with previous findings showing that avoidant attachment does not contribute to heightened distress following the death of a loved one (Field & Sundin, 2001; Fraley & Bonanno, 2004). However, one should take into consideration that these findings, like our current findings, were obtained from participants' self-reports, which might have precluded a more accurate assessment of attachment avoidant people's grief responses. In fact, attachment-avoidant people tend to bottle overt expressions of distress and express it in somatic symptoms or in less explicit ways (Wayment & Vierthaler, 2002). Therefore, further studies should

include projective or cognitive measures that can capture variations in attachment-avoidant people's distress following parental death.

Limitations and Conclusions

Our study has several limitations. The main limitation was the difficulty to recruit participants to take part in a study dealing with parental death right after the loss, when the hardship and the pain are still so fresh. In addition, since the population of Holocaust survivors is decreasing dramatically each passing day, it was even more challenging to recruit HSO for both non-grieving and grieving groups. These difficulties have resulted in a relatively small sample, which restricted the study's statistical power and the generalizability of findings. Additionally, our findings were based on self-report measures, which can be biased by social desirability, and a cross-sectional design that prevented us from making strong inferences about direction of causality. Further studies should include behavioral observations or less explicit measures of attachment, well-being and distress and rely on prospective longitudinal designs that can follow the contribution of parental death and attachment orientations to mental health over time.

In the current study we focused on HSO's attachment orientation as a proxy of the relationship satisfaction they had with the traumatized parent. Future studies can benefit from examining other variables that can highlight the quality of such a relationship, such as parent's attachment orientations or specific aspects of the relationship (e.g., intimacy, self-disclosure, investment). Also, future studies using larger samples can consider if both parents are dead or one of them is still alive. In addition, since elderly parental death has hardly been investigated until now, it is important for future research to assess how this event is perceived by their grieving children. This assessment is important due to previous findings showing an association between how much the event is evaluated as traumatic and the emergence of emotional problems mainly among attachment-avoidant people (e.g., Ogle et al., 2016).

The current study has several theoretical and clinical implications. Theoretically, it reinforces the understanding of grief reaction after parental death among mid-life adults. The addition of dead parent's background and offspring's attachment orientations takes this knowledge one step further by highlighting how factors that related to parent-child relationship contribute to the emergence of emotional and relational problems following this loss.

Clinically, the current findings reinforce the importance of developing specific intervention programs for mid-life people who are dealing with elderly parental death. As mentioned earlier, little is known about the difficulties this population is dealing with. It is important to consider their needs for special adjustments when they turn to treatment. However, in most cases therapists and therapeutic centers are not qualified or knowledgeable about those necessary accommodations (Laidlaw & Pachana, 2009).

References

- Almqvist, K., & Broberg, A. G. (2003). Young children traumatized by organized violence together with their mothers—The critical effects of damaged internal representations. *Attachment & Human Development, 5*(4), 367–380. <https://doi.org/10.1080/14616730310001633447>
- Bar-On, D., Eland, J., Kleber, R. J., Krell, R., Moore, Y., Sagi, A., Soriano, E., Suedfeld, P., Van der Velden, P. G., & van IJzendoorn M. H. (1998). Multigenerational perspectives of coping with the Holocaust experience: On the developmental sequelae of trauma across generations. *International Journal of Behavior Development, 22*(2), 315-338.
- Ben-Zur, H., & Zimmerman, M. (2005). Aging Holocaust survivors' well-being and adjustment: Associations with ambivalence over emotional expression. *Psychology & Aging, 20*(4), 710-713. <https://doi.org/10.1037/0882-7974.20.4.710>
- Bowlby, J. (1973). *Attachment and loss: Vol. 2. Separation: Anxiety and anger*. New York: Basic Books.
- Bowlby, J. (1982). *Attachment and loss: Vol. 1. Attachment* (2nd ed.). Basic Books. (Original ed. 1969)
- Brennan, K. A., Clark, C. L., & Shaver, P. R. (1998). Self-report measurement of adult attachment: An integrative overview. In J. A. Simpson & W. S. Rholes (Eds.), *Attachment theory and close relationships* (pp. 46-76). Guilford Press.
- Brom, D., Kfir, R., & Dasberg, H. (2001). A controlled double-blind study on children of Holocaust survivors. *Israel Journal of Psychiatry, 38*(1), 47–57.
- Carpenter, B. D. (2001). Attachment bonds between adult daughters and their older mothers: Associations with contemporary caregiving. *The Journals of Gerontology Series B: Psychological Sciences and Social Sciences, 56*(5), 257-266. <https://doi.org/10.1093/geronb/56.5.P257>
- Cassidy, J., & Kobak, R. R. (1988). Avoidance and its relationship with other defensive processes. In J. Belsky & T. Nezworski (Eds.), *Clinical implications of attachment* (pp. 300- 323). Erlbaum.
- Davidovitz, R., Mikulincer, M., Shaver, P. R., Izsak, R., & Popper, M. (2007). Leaders as attachment figures: Leaders' attachment orientations predict leadership-related mental representations and followers' performance and mental health. *Journal of Personality and Social Psychology, 93*(4), 632-650. <https://doi.org/10.1037/0022-3514.93.4.632>
- De Haene, L., Grietens, H., & Verschueren, K. (2010a). Adult attachment in the context of refugee traumatisation: The impact of organized violence and forced separation on parental states of mind regarding attachment. *Attachment & Human Development, 12*(3), 249–264. <https://doi.org/10.1080/14616731003759732>
- Field, N. P., & Sundin, E. C. (2001). Attachment style on adjustment to conjugal bereavement. *Journal of Social and Personal Relationships, 18*(3), 347-361. <https://doi.org/10.1177/0265407501183003>
- Florian, V., & Drori, Y. (1990). Mental Health Index (MHI): Psychometric features and normative data among the Israeli population. *Psychology, 2*, 26-35 [Hebrew].
- Fraley, R., & Bonanno, G. A. (2004). Attachment and loss: A test of three competing models on the association between attachment-related avoidance and adaptation to bereavement. *Personality and Social Psychology Bulletin, 30*(7), 878-890. <https://doi.org/10.1177/0146167204264289>
- Fraley, R. C., & Shaver, P. R. (1997). Adult attachment and the suppression of unwanted thoughts. *Journal of Personality and Social Psychology, 73*(5), 1080-1091. <https://doi.org/10.1037/0022-3514.73.5.1080>
- Fraley, R. C., & Shaver, P. R. (2016). Attachment, loss, and grief: Bowlby's views, new developments, and current controversies. In J. Cassidy & P. R. Shaver (Eds.), *Handbook of attachment: Theory, research, and clinical applications* (3rd ed., pp. 40-62). Guilford.

- Hesse, E. (2016). The Adult Attachment Interview: Protocol, method of analysis, and selected empirical studies: 1985–2015. In J. Cassidy & P. R. Shaver (Eds.), *Handbook of attachment: Theory, research, and clinical applications* (3rd ed., pp. 553-597). Guilford.
- Hooyman, N. R., & Kramer, B. J. (2006). *Living through loss*. Columbia University Press.
- Jerga, C., Shaver, P. R., & Wilkinson, R. B. (2011). Attachment insecurities and identification of at-risk individuals following the death of a loved one. *Journal of Social and Personal Relationships*, 28(7), 891-914. <https://doi.org/10.1177/0265407510397987>
- Kellermann, N. P. F. (2009). *Holocaust trauma: Psychological effects and treatment*. IUUniverse.
- Laidlaw, K., & Pachana, N. A. (2009). Aging, mental health, and demographic change: Challenges for psychotherapists. *Professional Psychology: Research and Practice*, 40(6), 601-608. <https://doi.org/10.1037/a0017215>
- McKay, M. T., Cannon, M., Healy, C., Syer, S., O'Donnell, L., & Clarke, M. C. (2021). A meta-analysis of the relationship between parental death in childhood and subsequent psychiatric disorder. *Acta Psychiatrica Scandinavica*, 143(6), 472-486. <https://doi.org/10.1111/acps.13289>
- Marks, N. F., Jun, H., & Song, J. (2007). Death of parents and adult psychological and physical well-being. *Journal of Family Issues*, 28(12), 1611-1638. <https://doi.org/10.1177/0192513X07302728>
- Mikulincer, M., & Shaver, P. R. (2013). Attachment insecurities and disordered patterns of grief. In M. Stroebe, H. Schut, P. Boelen, and J. van den Bout (Eds.), *Complicated grief: Scientific foundations for health care professionals* (pp. 190-203). Routledge.
- Mikulincer, M., & Shaver, P. R. (2016). *Attachment patterns in adulthood: Structure, dynamics, and change* (2nd ed.). Guilford.
- Nickerson, A., Bryant, R. A., Aderka, I. M., Hinton, D. E., & Hofmann, S. G. (2013). The impacts of parental loss and adverse parenting on mental health: Findings from the National Comorbidity Survey-Replication. *Psychological Trauma: Theory, Research, Practice, and Policy*, 5(2), 119. <https://doi.org/10.1037/a0025695>
- Ogle, C. M., Rubin, D. C., & Siegler, I. C. (2016). Maladaptive trauma appraisals mediate the relation between attachment anxiety and PTSD symptom severity. *Psychological Trauma: Theory, Research, Practice, and Policy*, 8(3), 301-309. <https://doi.org/10.1037/tra0000112>
- Schwerdtfeger, K. L., & Goff, B. S. (2007). Intergenerational transmission of trauma: exploring mother-infant prenatal attachment. *Journal of Trauma Stress*, 20(1), 39-51. <https://doi.org/10.1002/jts.20179>
- Shmotkin, D., Shrira, A., Goldberg, S. C., & Palgi, Y. (2011). Resilience and vulnerability among aging Holocaust survivors and their families: An Intergenerational overview. *Journal of Intergenerational Relationships*, 9(2), 7-21. <https://doi.org/10.1080/15350770.2011.544202>
- Shrira, A., Menashe, R., & Bensimon, M. (2019). Filial anxiety and sense of obligation among offspring of Holocaust survivors. *Aging Mental Health*, 23(6), 752–761. <https://doi.org/10.1080/13607863.2018.1448970>
- Solomon, Z., Kotler, M., & Mikulincer, M. (1988). Combat related posttraumatic stress disorder among second generation Holocaust survivors: Preliminary findings. *American Journal of Psychiatry*, 145(7), 865-868.
- Tambelli, R., Cimino, S., Cerniglia, L., & Bllarotto, G. (2015). Early maternal relational traumatic experiences and psychopathological symptoms: A longitudinal study on mother-infant and father-infant interactions. *Scientific Reports*, 5, 13984. <https://doi.org/10.1038/srep13984>
- Umberson, D. (2003). *Death of a parent: Transition of a new adult identity*. Cambridge University Press.

- van IJzendoorn, M. H., Bakermans-Kranenburg, J., & Sagi-Schwartz, A. (2003). Are children of Holocaust survivors less well-adopted? A meta-analytic investigation of secondary traumatization. *Journal of Traumatic Stress, 16*(5), 459-469. <https://doi.org/10.1023/A:1025706427300>
- Veit, C. T., & Ware, J. E. (1983). The structure of psychological distress and well-being in general populations. *Journal of Consulting and Clinical Psychology, 51*(5), 730-742. <https://doi.org/10.1037/0022-006X.51.5.730>
- Wayment, H. A., & Vierthaler, J. (2002). Attachment style and bereavement reactions. *Journal of Loss & Trauma, 7*(2), 129-149. <https://doi.org/10.1080/153250202753472291>
- Wiseman, H., & Barber, J. P. (2008). *Echoes of the trauma: Relational themes and emotions in children of Holocaust survivors*. Cambridge University Press.