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The Frequency and Impact of Exposure to Potentially Traumatic Events Over the Life Course

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Abstract

We examined the frequency and impact of exposure to potentially traumatic events among a nonclinical sample of older adults ($n = 3,575$), a population typically underrepresented in epidemiological research concerning the prevalence of traumatic events. Current PTSD symptom severity and the centrality of events to identity were assessed for events nominated as currently most distressing. Approximately 90% of participants experienced one or more potentially traumatic events. Events that occurred with greater frequency early in the life course were associated with more severe PTSD symptoms compared to events that occurred with greater frequency during later decades. Early life traumas, however, were not more central to identity. Results underscore the differential impact of traumatic events experienced throughout the life course. We conclude with suggestions for further research concerning mechanisms that promote the persistence of post-traumatic stress related to early life traumas and empirical evaluation of psychotherapeutic treatments for older adults with PTSD.

Keywords

lifetime trauma exposure; PTSD symptom severity; event centrality; older adulthood

Older adults are an ideal population within which to examine the prevalence and impact of exposure to traumatic events. They have lived long enough to potentially be exposed to many types of trauma, and in general they have the requisite cognitive functions to report their experiences. Furthermore, studies on older adults allows researchers to examine the persistence of symptoms associated with traumatic events experienced at different points throughout the life course. Despite these advantages, most studies concerning lifetime trauma exposure have examined young adults (e.g., Breslau, Davis, Andreski, & Peterson, 1991), military veterans (e.g., Schnurr, Spiro, Vielhauer, Findler, & Hamblen, 2002), or samples ranging broadly in age with older adults omitted (Kessler, Sonnega, Bromet, Hughes, & Nelson, 1995). The generalizability of results from these studies to the prevalence of traumatic events over the life course is questionable given the increasing likelihood of encountering a traumatic event with age (Creamer & Parslow, 2008; Glaesmer,

Gunzelmann, Braehler, Forstmeier, & Maercker, 2010) and the underestimation of events that occur with greater frequency later in life. The present study was designed to expand the limited knowledge concerning the prevalence and impact of lifetime trauma exposure among community-dwelling older adults and to advance our understanding of the extent to which the negative consequences of traumatic experiences from across the life course persist and cause distress during older adulthood.

Results from the few existing studies that included subsamples of community-dwelling older individuals indicate that most older adults experience at least one traumatic event during their lifetime (Norris, 1992), and that rates of exposure among older adults can be higher than rates among younger individuals. For example, Spitzer et al. (2008) found that 76.5% of individuals aged 65 and older reported one or more traumatic life events, an approximate 4-fold increase compared to the rate of exposure among the young adult and middle-aged participants. Studies concerning the consequences of trauma exposure further suggest that the severity of post-traumatic outcomes may depend on the nature and timing of the event. In one study that included subsamples of older adults from six European countries, the potentially traumatic events that were most strongly associated with post-traumatic stress disorder (PTSD) tended to be interpersonal in nature (e.g., rape, partner violence; Darves-Bornoz et al., 2008). Research on the impact of trauma as a function of age-at-exposure have produced more inconsistent findings, with some studies indicating that young adulthood and midlife traumatic events more strongly predict negative posttraumatic outcomes during older adulthood (Dulin & Passamore, 2010; Krause, 2005) and other research showing that traumas experienced after age 50 are most consequential for late life mental health (Shrira, Shmotkin, & Litwin, 2012). Still other research indicates that the detrimental effects of trauma are greater for events encountered early in development (e.g., Colbert & Krause, 2009).

The present study provides detailed information concerning when different types of traumas are likely to occur and the types of events that are most likely to cause distress during older adulthood. Such information is needed to clarify previous findings and to advance our understanding of factors that promote adverse posttraumatic outcomes among older adults. Research aimed at identifying the characteristics of traumatic events that contribute to distress among older adults may also inform clinical practice and ultimately improve treatment services for older individuals. Understanding the factors that contribute to poor psychological health and well-being in older adulthood is becoming critically important given demographic shifts that have resulted in older adults comprising an increasingly disproportionate percentage of the population of the United States and other industrialized countries. In addition, the growing literature linking trauma exposure and PTSD to an elevated risk of aging-related disease (e.g., Kubzansky, Koenen, Spiro, Vokonas, & Sparrow, 2007) further underscores the need for more research to inform clinical treatments for older adult survivors of trauma.

We tested a large nonclinical cohort of older adults to provide a clearer picture of when and with what frequency different kinds of events occur over the life course. PTSD symptom severity and the perceived centrality of the event to one's identity were assessed for the traumatic event that bothered participants most at the time of the study. A growing body of research indicates that greater centrality of a traumatic event to one's identity and life story is associated with negative posttraumatic outcomes including symptoms of PTSD and depression (Berntsen & Rubin, 2006), reduced self-rated health (Boals, 2010), and lower self-esteem (Robinaugh & McNally, 2011). In addition, the relative impact of different categories of traumatic events, including life-threatening events, events that elicit strong emotional reactions, interpersonal events, and events that occur early versus later in the life

course, was assessed to identify event characteristics that are associated with distress in older adulthood.

Method

Participants

Data were drawn from wave 12 of the University of North Carolina Alumni Heart Study (UNCAHS), a longitudinal study of students who entered the University of North Carolina, Chapel Hill in 1964–1966 (Siegler et al., 1992). The recruitment procedures and participation rates of the UNCAHS are detailed elsewhere (Berntsen, Rubin, & Siegler, 2011; Hooker, Hoppmann, & Siegler, 2010). Because 97% ($n = 3,575$) of wave 12 respondents were 55 to 69 years of age, our analyses were limited to this group to provide a more uniform age range. Mean age was 60.73 ($SD = 1.85$). The sample was 67% male, and 99% Caucasian, .39% African American, .08% Hispanic, .08% American Indian, and .06% mixed race. Four participants (.11%) declined to identify their ethnicity. Approximately 9% had less than a college degree, 19% had Bachelor's degrees, 26% had Bachelor's degrees plus additional training, 25% had Master's degrees, and 22% had doctorate or medical degrees. The median annual household income was in the \$70–99,999 range.

Measures

Potentially traumatic events—The Traumatic Life Events Questionnaire (TLEQ; Kubany et al., 2000) was used to assess lifetime exposure to potentially traumatic events. Participants reported how often they experienced each of 19 types of events (Table 1) using a 7-point scale (0 = never, 6 = more than 5 times). For the most serious occurrence of each event type, participants reported their age at the event and indicated whether the DSM-IV-TR criterion A2 was met. The TLEQ assesses a broader spectrum of events capable of producing PTSD symptoms compared to other trauma inventories, and has strong psychometric properties and high convergent validity with structured clinical interviews (Kubany et al., 2000). Similar to epidemiological studies of trauma exposure that used mail surveys (e.g., Kessler et al., 1995), TLEQ items were modified to provide respondents extra privacy in reporting and to reduce redundancy. Details of the modifications are described elsewhere (Ogle, Rubin, & Siegler, in press). Relevant to the present analyses, for each event type, participants were also asked whether or not the event met the DSM-IV-TR A1 criterion (i.e., “Did the event involve actual or threatened death, serious injury, or threat to the physical integrity of yourself or others?”).

To examine the extent to which the impact of trauma exposure varied for different types of events, TLEQ items that were nominated by participants as currently most distressing were classified into several dichotomies. First, individual events were categorized as either life threatening or non-life threatening according to whether or not the participant endorsed the A1 criterion. Second, individual events were classified as evoking a strong emotional response according to whether or not the participant endorsed the A2 criterion. Third, individual events were classified as interpersonal or non-interpersonal according to whether they involved intentional, personal assaultive acts or violations perpetrated by others (see superscripts in Table 2). Finally, the mean age of occurrence and the distribution of events across the life span (Table 2) were used to classify events that occurred early in life versus those that occurred later. To be categorized as an early event, the mean age of occurrence had to be less than 30, and at least 80% of the events in the category were required to occur during the first three decades of life.

PTSD symptom severity—The PTSD Check List-Stressor Specific Version (PCL-S; Weathers, Litz, Huska, & Keane, 1994) is a 17-item PTSD screening instrument that yields

a measure of symptom severity. Using 5-point scales (1 = not at all, 5 = extremely), respondents indicate the extent to which a specific event produced each of the B, C, and D DSM-IV-TR PTSD symptoms during the previous month. The PCL has strong psychometric properties (Blanchard, Jones-Alexander, Buckley, & Forneris, 1996) and high diagnostic agreement with the Clinician Administered PTSD Scale ($r = .93$; Blake et al., 1990).

Event centrality—The Centrality of Event Scale (CES; Berntsen & Rubin, 2006) assesses the extent to which a trauma forms a central component of personal identity, a turning point in the life story, and a reference point for everyday inferences. Items are rated on 5-point scales (1 = totally disagree, 5 = totally agree). Mean scores are reported. Example items include “This event permanently changed my life,” and “I feel this event has become part of my identity.” The scale’s reported reliability is .88. Respondents completed the 7-item short version of the CES in reference to the TLEQ item that bothered them most at the time of the study.

Procedure

UNCAHS members first received instructions to complete the wave 12 questionnaire online. Individuals who did not respond were mailed identical paper surveys up to three times. On the wave 12 questionnaire, participants first answered questions concerning their health status, followed by the TLEQ. The CES and PCL were then completed in relation to the TLEQ event that currently bothered them most. All waves of the UNCAHS were approved by the Duke University Medical Center institutional review board.

Data Analysis

Statistical significance was based on two-sided tests at the .05 level. T-tests were conducted to examine differences in PTSD symptom severity and event centrality for the dichotomous event categories. The utility of each category in predicting PTSD symptom severity and event centrality was compared using multiple regression analysis. Age, education, gender, income, and marital status were entered in regression models as possible confounders. Standardized beta weights for the final model are presented.

Results

Prevalence of Potentially Traumatic Events

Approximately 90% of respondents ($n = 3,208$) reported exposure to one or more types of events ($M = 2.85$, $SD = 2.16$, range = 0–13). The majority (78.21%) of individuals with a history of at least one event reported exposure to two or more event types. When multiple occurrences of the same type of event were considered, the mean number of events was 5.31 ($SD = 5.99$, range 0–56).

To provide an overview of how often participants experienced each of the potentially traumatic events over the life course, Table 1 displays frequencies for lifetime exposure to the TLEQ events as a function of age-at-exposure split by decade. Although 53.37% of the sample was 60 years of age or older, only 5.71% was older than age 63, which precluded stable frequency estimates for events that occurred throughout the next decade. Therefore, data are presented for events that occurred at age 60 and younger for the 3,084 respondents who reported their age-at-exposure to TLEQ events. Prevalence rates were highest for *unexpected death of a loved one*. *Illness or accident of a loved one* and *non-live birth pregnancy* were also relatively common with approximately one-third of participants reporting exposure to each of these events. The age distribution of events revealed that some events such as *sexual assaults* occurred with greater frequency at younger ages, whereas other events (e.g., *unexpected death of a loved one*) were more prevalent after the transition

to adulthood (age 20). Similarly, *illness or accident of a loved one* and *personal illness or accident* occurred with greater frequency during later decades of the life course. Many low frequency events, including *natural disasters*, were more uniformly distributed across the lifespan.

Impact of Potentially Traumatic Events

Our second research question concerned differences in the impact of potentially traumatic events as a function of event type and age-at-exposure. Table 2 presents data from a subset of participants ($n = 2,056$) who nominated a TLEQ event that currently bothered them most and completed the PCL and the CES in reference to the event. As with Table 1, the age distribution of events in Table 2 includes those that occurred at age 60 and younger. The values for the PCL and CES include the full sample. PTSD symptom severity was greatest for *non-disclosed events*, followed by *warfare or combat exposure*. Event centrality was greatest for *personal illness or accident*, followed by *non-disclosed events*. Greater event centrality was strongly related to more severe PTSD symptoms ($r = .56, p < .001$).

Events nominated by participants as currently most distressing were unequally distributed across the life course. *Witnessed childhood family violence* was the most frequent event to be nominated at age 10 or younger, whereas *unexpected death of a loved one* was the most common trauma to be nominated for ages 11 to 60. Despite the high frequency of *unexpected death of a loved one*, this event was associated with lower PTSD symptom severity compared to events that occurred primarily during childhood and adolescence ($M_{age < 12}, t(878) = 5.23, p < .001$).

To further determine the nature of events that were associated with greater PTSD symptom severity and event centrality, TLEQ items were categorized into four dichotomies using key distinctions from the PTSD literature: a) life-threatening versus nonlife-threatening events; b) events that evoked strong emotional reactions versus those that did not; c) interpersonal versus non-interpersonal events; and d) events that occurred early in life versus those that occurred later as indicated by mean age of occurrence. PTSD symptom severity was significantly higher for a) life-threatening ($M = 24.02, SD = 9.78$) compared to nonlife-threatening events ($M = 20.81, SD = 6.50$); b) A2 ($M = 25.02, SD = 10.45$) compared to non-A2 events ($M = 20.61, SD = 6.08$); c) interpersonal ($M = 24.73, SD = 11.45$) compared to non-interpersonal events ($M = 21.97, SD = 7.53$); and d) early life ($M = 26.27, SD = 12.64$) compared to later events ($M = 22.32, SD = 8.01$), $t(1906-2054) = 5.73, ps < .001$. Event centrality scores were significantly higher for a) life-threatening ($M = 2.82, SD = 1.24$) compared to non-life-threatening events ($M = 2.11, SD = 1.08$); b) A2 ($M = 2.94, SD = 1.24$) compared to non-A2 events ($M = 2.15, SD = 1.09$); and c) early ($M = 2.72, SD = 1.22$) compared to later events ($M = 2.51, SD = 1.22$); $t(1973-2054) = 2.50, ps < .05$. No differences in event centrality emerged for interpersonal ($M = 2.45, SD = 1.23$) compared to non-interpersonal traumas ($M = 2.55, SD = 1.22$). When *warfare or combat exposure* was classified as a later event, the relevant t -test remained significant.

Next, the relative utility of each of the four event categories in predicting PTSD symptom severity and event centrality was examined in a series of multiple regressions. In each model, socio-demographic variables were entered on the first step, followed by the event categories on step two. Because the interpersonal–non-interpersonal and early–later event dichotomies were highly correlated ($r = -.77$), they were tested in separate regressions to avoid multicollinearity. Results indicated that all event categories significantly predicted PCL scores. Criterion A2 events were the strongest predictor of greater PTSD symptom severity ($\beta = .17$), followed by early life events ($\beta = -.13$), interpersonal events ($\beta = .11$), and criterion A1 events [$\beta = .09$]; final model including non-interpersonal–interpersonal events, $F(8, 1840) = 25.32, p < .001, R^2 = .10$; final model including early–later events, $F(8,$

1946) = 28.60, $p < .001$, $R^2 = .11$]. Criterion A2 events also emerged as the strongest predictor of event centrality ($\beta = .21$) followed by criterion A1 events ($\beta = .17$). Although non-interpersonal events significantly predicted event centrality ($\beta = -.06$), the magnitude of the standardized beta and the non-significant correlation ($r = -.03$) between event centrality scores and interpersonal–non-interpersonal events suggests that the contribution of non-interpersonal events to event centrality was small [final model, $F(8, 1840) = 41.26$, $p < .001$, $R^2 = .15$]. No association was found between the early–later dichotomy and event centrality [$\beta = -.04$; final model, $F(8, 1946) = 42.95$, $p < .001$, $R^2 = .15$].

Discussion

The present study examined the frequency and impact of exposure to potentially traumatic events as a function of age-at-exposure and event type in a nonclinical sample of older adults. Approximately 90% of participants reported exposure to one or more types of potentially traumatic event during their lifetime. Consistent with previous research (Kessler et al., 1995), more than half reported exposure to two or more event types. Although the rate of exposure in our study is higher than in previous research that examined the DSM-III-R definition of a trauma among samples ranging broadly in age (Kessler et al., 1995; Resnick et al., 1993) as well as studies of non-North American samples (Creamer & Parslow, 2008; Glaesmer et al., 2010), our results are comparable to the estimate of 89.6% reported in research in which DSM-IV criteria were evaluated in a US sample (Breslau et al., 1998).

Data concerning the timing of events indicated that certain types of traumas are more likely to occur during particular periods of the life course. Although, as expected, events such as *warfare or combat exposure* and *non-live birth pregnancy* were generally restricted to young adulthood, and *childhood physical abuse* was necessarily limited to childhood, the age-dependent nature of other events was more surprising. For example, *sexual assaults* were over thirteen times more likely to occur during the first decade of life compared to ages 31 to 60, and *unexpected deaths of loved ones* approximately doubled in frequency during each decade after the transition to adulthood.

Our findings also revealed that the severity of post-traumatic outcomes experienced in older adulthood varied by event type. Consistent with previous research by Darves-Bornoz and colleagues (2008), current PTSD symptom severity was highest for *non-disclosed* events, which suggests that shame and guilt may maintain the effects of trauma longer than other emotions. *Non-disclosed* events were also rated as closely central to personal identity, second to *personal illnesses or accidents*. When the impact of exposure to various categories of TLEQ events was tested in regression analyses, life-threatening events, events that evoked strong emotional reactions, and interpersonal events emerged as significant predictors of PTSD symptom severity. In addition, events that occurred with greater frequency early in life predicted greater PTSD symptom severity compared to events that were more prevalent later in life. This finding extends previous research concerning the impact of childhood adversity on outcomes measured in young adulthood and mid-life (e.g., Goodman, Quas, & Ogle, 2010; Kessler, Davis, & Kendler, 1997) by demonstrating that the negative consequences of traumatic events encountered early in the life course persistent into older adulthood. Early life traumas were also rated as more central to identity than later traumas, but this pattern did not hold in regression analyses with socio-demographic variables entered in the model. Likewise, the distinction between interpersonal versus non-interpersonal events did not reliably predict event centrality.

The present findings add to our previous work concerning post-traumatic outcomes in older adults (Ogle et al., in press) by revealing when different types of traumatic events are likely to occur throughout the life course, as well as the types of traumas that are most likely to

become integrated into one's identity and to cause distress during older adulthood. Our finding that the types of traumatic events that occur more frequently early in life are associated with greater PTSD symptom severity compared to more recent events underscores the need for future research to identify mechanisms underlying the persistence of post-traumatic stress associated with early traumas. One line of research in this area would involve examining possible differences in the narrative content and qualities of trauma memories from different periods of the life course. Investigating how objective (i.e., experimenter-rated properties) and subjective (i.e., participant-rated phenomenological characteristics; Rubin, Dennis, & Beckham, 2011) differences in early life versus recent trauma narratives relate to PTSD symptoms would increase our understanding of mechanisms involved in the development and maintenance of post-traumatic stress, and inform various competing models of PTSD (e.g., Brewin, Dalgleish, & Joseph, 1996; Ehlers & Clark, 2000; Rubin, Berntsen, & Bohni, 2008). Including older adults as well as cohorts of different ages would allow the time course of the differential effects of early life versus recent traumas to be analyzed. The study could be further expanded into a longitudinal-sequential design by retesting different age cohorts at intervals. This extension would allow longitudinal changes in the properties of early versus recent trauma memories to be compared and examined in relation to changes in symptom profiles over time. A longitudinal-sequential research design would also counteract cohort effects, which have limited the majority of previous longitudinal studies of trauma survivors.

Our findings also have implications for clinical practice. One question raised by our results is whether treatment outcomes for older adults with PTSD could be improved by therapeutic approaches that take into account the developmental timing of the trauma. Different therapies may be more effective at treating post-traumatic stress associated with early life compared to recent trauma exposure given that early traumas often entail losses and disruptions during a developmental stage characterized by numerous advances in social and cognitive processes (e.g., emotion regulation, attachment formation, autobiographical memory). Consistent with this idea, a growing number of studies have shown that severe trauma during childhood, especially experiences that are interpersonal in nature (e.g., prolonged childhood sexual abuse), can result in impairments and dysregulation in more diverse domains of functioning (e.g., affective, relational, identity) compared to similar traumas that occur later in the life cycle, such as adulthood sexual assault (e.g., Cloitre et al., 2009; van der Kolk, Roth, Pelcovitz, Sunday, & Spinazzola, 2005). As a result, interventions that incorporate affect and interpersonal regulation skills training may be more effective at treating early life compared to recent traumas. Although promising results have been found for such treatments in studies of young and middle-aged adults with histories of childhood trauma (Cloitre et al., 2010; Ford et al., 2005), well-controlled studies that test these protocols in older adults are needed to determine if such treatments are safe and effective for older individuals with histories of early life trauma. In contrast, Cognitive Behavior Therapy might be more effective at treating PTSD related to recent traumatic experiences in older adulthood, which our results indicate are likely to be more punctuated events that cause changes in self identity. However, limited data are available to aid clinicians in determining best treatment practices for older individuals with PTSD. To date, no randomized controlled trials (RCTs) have examined the efficacy of PTSD treatments specifically for older adults, nor have studies compared treatment efficacy for different kinds of traumas. Clinical guidelines concerning best practices for treating PTSD in older adults would be informed substantially by RCTs that evaluate the efficacy of treatment protocols designed for PTSD related to early life trauma and cognitive-behavioral therapies that have been empirically validated with young adult and middle-aged populations (e.g., prolonged exposure, cognitive processing therapy).

Our results should be interpreted in the context of several limitations. First, because the UNCAHS is primarily comprised of undergraduates who were in college during the 1960s, the sample is not representative of the general population with respect to education, gender, or ethnicity. Despite the underrepresentation of females and individuals with low education, both of which are risk factors for PTSD (Breslau et al., 1998; Kessler et al., 1995), our results indicate that trauma exposure and post-traumatic stress were not uncommon, even among well-educated older adults for whom support resources (e.g., financial, interpersonal) may be more available. Second, as with all cross-sectional analyses, the causal relation between lifetime trauma exposure and current PTSD symptom severity and event centrality cannot be determined and may have been caused by shared factors that were not examined in this study. Third, although the PCL is a reliable and valid measure of PTSD symptom severity (e.g., Blanchard et al., 1996), clinical interviews may be necessary to identify which cases of elevated PTSD symptom severity met criteria for diagnosis. Fourth, our findings may be subject to bias resulting from potential memory errors related to retrospective reports and defensive reporting due to the perceived stigma of certain events (e.g., childhood sexual abuse, rape). Finally, similar to epidemiological studies of PTSD (e.g., Kessler et al., 1995), PTSD symptoms were assessed for only one event per participant, which may have led to an underestimation of symptoms. Despite these limitations, our findings demonstrate that distress experienced in older adulthood can be traced to traumatic events endured decades earlier. Moreover, exposure to particular types of traumatic events, specifically those that are life-threatening, events that elicit strong emotional reactions, traumas that are interpersonal in nature, and traumas that occur early in life may be especially consequential for psychological health during older adulthood.

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Table 1
 Lifetime Prevalence of Potentially Traumatic Events as a Function of Age-at-Exposure by Decade

Event type	M	SD	Age-at-exposure								Total
			10	20	30	40	50	60*			
Childhood physical abuse	9.51	3.74	110	65	0	0	0	0	0	175	
Witnessed childhood family violence	10.60	4.53	203	139	6	1	1	1	0	350	
Sexual assault	13.33	7.82	138	167	33	5	3	2	2	348	
Warfare or combat exposure	25.49	7.76	2	14	247	9	15	9	9	296	
Physical assault by stranger	26.87	12.81	7	69	64	21	12	18	18	191	
Witnessed an attack or murder	27.34	11.65	1	43	58	14	14	8	8	138	
Non-disclosed	28.01	16.52	19	29	30	17	9	20	20	124	
Non-live birth pregnancy	30.39	6.84	1	58	504	376	64	8	8	1011	
Motor vehicle accident	30.67	14.93	28	189	167	81	87	96	96	648	
Other life-threatening accident	31.43	15.70	26	54	68	50	41	44	44	283	
Other life-threatening event	31.82	16.06	64	98	160	93	66	114	114	595	
Death threat	34.55	13.67	12	52	137	104	60	73	73	438	
Stalked	34.70	13.33	4	23	55	39	36	26	26	183	
Robbery	34.85	12.24	6	20	91	80	47	37	37	281	
Physical assault by partner	35.23	11.28	2	11	98	63	53	26	26	253	
Natural disaster	38.52	16.02	18	17	25	17	64	54	54	195	
Unexpected death of a loved one	39.41	14.55	26	188	324	303	376	493	493	1710	
Personal illness or accident	43.98	16.71	48	30	45	57	106	304	304	590	
Illness or accident of a loved one	45.84	12.74	12	47	93	148	261	473	473	1034	

Note. Events are presented in ascending order by mean age-at-exposure.

* To adjust for the number of participants who were not old enough to report on events that occurred at ages 56 through 60, multiply frequencies in the 60 column by 1.08.

Prevalence of Most Distressing Potentially Traumatic Events, Age-at-Exposure by Decade, PTSD Symptom Severity, and Event Centrality Scores

Table 2

Event type	Age-at-exposure										PCL		CES	
	M	SD	10	20	30	40	50	60	M	SD	M	SD		
Childhood physical abuse ^a	9.50	2.97	14	8	0	0	0	0	25.27	8.14	2.96	1.22		
Witnessed childhood family violence ^a	10.54	4.07	47	33	0	1	0	0	25.21	11.76	2.64	1.16		
Sexual assault ^a	11.81	6.43	24	34	2	2	0	0	26.76	13.57	2.44	1.30		
Warfare or combat exposure ^a	25.08	7.96	1	5	76	1	3	4	27.12	13.70	2.93	1.19		
Non-five birth pregnancy ^b	31.01	6.96	0	4	50	37	7	1	19.44	3.96	1.90	.94		
Physical assault by stranger ^a	33.22	15.98	0	6	8	2	1	6	22.70	9.46	1.68	1.06		
Non-disclosed	33.67	15.73	2	6	4	8	5	5	31.94	13.07	3.16	1.22		
Life-threatening accident ^b	33.77	13.33	0	5	14	14	3	8	22.09	7.04	2.31	1.10		
Motor vehicle accident ^b	34.94	14.90	3	24	29	21	18	28	21.30	6.40	1.95	1.11		
Other life-threatening event	36.97	17.17	10	13	22	17	11	39	24.74	10.06	2.56	1.28		
Physical assault by partner ^a	38.40	10.16	0	0	12	5	10	3	24.67	9.11	2.56	1.29		
Death threat ^a	39.35	15.56	0	3	6	4	4	10	21.04	6.86	1.84	.91		
Witnessed attack or murder ^a	39.57	11.55	0	0	1	2	3	1	20.00	3.22	2.08	1.06		
Stalked ^a	40.00	13.70	0	1	4	3	1	4	21.15	6.49	1.57	.73		
Robbery ^a	40.88	12.21	0	1	6	12	5	10	20.19	7.99	1.77	.99		
Unexpected death of a loved one ^b	40.92	14.36	9	63	118	118	152	231	21.79	7.99	2.51	1.19		
Natural disaster ^b	45.03	13.00	2	1	2	1	15	16	19.71	4.38	1.94	.96		
Illness or accident of a loved one ^b	48.07	10.98	0	5	20	25	51	126	22.31	7.68	2.70	1.21		
Personal illness or accident ^b	48.57	12.80	7	5	11	18	48	132	23.85	7.70	3.20	1.19		

Note. Events are presented in ascending order by mean age-at-exposure.

^a Interpersonal events.

^b Non-interpersonal events. Events without superscripts were not included in this classification because the nature of the event was unspecified.

PCL = PTSD Checklist Total Severity Scores. CES = Event centrality scores. *n* = 2056.