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To cite this article: Jane M. Sundermann MA, Ann T. Chu PhD & Anne P. DePrince PhD (2013): Cumulative Violence Exposure, Emotional Nonacceptance, and Mental Health Symptoms in a Community Sample of Women, Journal of Trauma & Dissociation, 14:1, 69-83

To link to this article: http://dx.doi.org/10.1080/15299732.2012.710186

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Cumulative Violence Exposure, Emotional Nonacceptance, and Mental Health Symptoms in a Community Sample of Women

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Women exposed to more types of violence (e.g., emotional, physical, or sexual violence)—referred to here as cumulative violence exposure—are at risk for more severe mental health symptoms compared to women who are exposed to a single type of violence or no violence. Women exposed to violence may also experience greater emotional nonacceptance compared to women with no exposure to violence. Emotional nonacceptance refers to an unwillingness to experience emotional states, including cognitive and behavioral attempts to avoid experiences of emotion. Given the links between cumulative violence exposure, emotional nonacceptance, and mental health symptoms among female victims of violence, the current study tested victims’ emotional nonacceptance as a partial mediator between cumulative violence exposure and the severity of 3 types of symptoms central to complex trauma responses: depression, dissociation, and posttraumatic stress disorder (PTSD) symptoms. A non-treatment-seeking community sample of women (N = 89; M age = 30.70 years) completed self-report questionnaires and interviews. Bootstrap procedures were then used to
test 3 mediation models for the separate predictions of depression, dissociation, and PTSD symptoms. Results supported our hypotheses that emotional nonacceptance would mediate the relationship between women’s cumulative violence exposure and severity for all symptom types. The current findings highlight the role that emotional nonacceptance may play in the development of mental health symptoms for chronically victimized women and point to the need for longitudinal research in such populations.

KEYWORDS depression, dissociation, emotional nonacceptance, cumulative violence, posttraumatic stress disorder (PTSD)

Violence against women is a social and public health problem that demands critical attention. A national survey estimated that approximately 30% of U.S. women are victims of physical, sexual, or emotional/psychological intimate partner violence (Coker et al., 2002). Women exposed to violence are at significantly greater risk than their nonexposed peers for mental health difficulties, including symptoms of depression (Calvete, Corral, & Estevez, 2007; Golding, 1999), dissociation (Neumann, Houskamp, Pollock, & Briere, 1996), and posttraumatic stress disorder (PTSD; e.g., Kessler, Sonnega, Bromet, & Hughes, 1995; Kilpatrick, Saunders, & Smith, 2003). Furthermore, women exposed to more types of victimizations (e.g., emotional, physical, sexual violence)—referred to here as cumulative violence exposure—report more severe mental health symptoms compared to women exposed to one or no victimizations (Follette, Polusny, Bechtle, & Naugle, 1996; Green et al., 2000).

In order to enhance the impact of prevention and intervention efforts for victims of violence, a critical goal of the current research is to identify risk and resilience factors that contribute to the relationship between cumulative violence exposure and later mental health symptoms among victims. The current study pursues that goal through examining a mechanism that may link victims’ cumulative violence exposure to the severity of their mental health symptoms: emotional nonacceptance. As mental health outcomes of interest, we focused on symptoms of depression, dissociation, and PTSD because of the centrality of these symptoms to the phenomenon of complex trauma among chronically victimized individuals (e.g., Cook et al., 2005; see Golding, 1999, for a review).

CUMULATIVE VIOLENCE EXPOSURE

Although several studies now document associations between greater cumulative violence exposures and greater severity of mental health symptoms
(e.g., Follette et al., 1996; Green et al., 2000), several methodological issues remain to be addressed within those studies connecting violence and mental health. First, there is the methodological issue of generalizability. Previous studies of victims' mental health following violence exposure have often relied on college samples of women (e.g., Messman-Moore, Long, & Siegfried, 2000; Sappington, Pharr, Tunstall, & Rickert, 1997). College samples typically include fewer women of lower socioeconomic status and racial/ethnic minority identification compared to the general population (see Messman-Moore & Long, 2003, for a review). Research demonstrates that women of racial/ethnic minority status and low socioeconomic status are at particularly high risk for the experience of multiple exposures to violence and severe mental health symptomatology (Crouch, Hanson, Saunders, Kilpatrick, & Resnick, 2000). Thus, findings from previous studies of college samples are likely limited in their generalizability to more typical populations of victimized women.

Second, many previous studies have assessed women's history of exposure to violence in a fairly limited fashion. For instance, some studies have asked women to report only certain types of violence (e.g., sexual abuse) but not other types of violence (e.g., physical abuse; e.g., Marhoefer-Dvorak, Resick, Hutter, & Girelli, 1988; Murphy, Kilpatrick, Amick-McMullan, & Veronen, 1988). Other studies have asked women to report on violence that occurred only within limited stages of their development (e.g., childhood; Merrill, Thomsen, Sinclair, Gold, & Milner, 2001; adulthood; Gelles & Harrop, 1989). Finally, victims' histories of violence have often been dichotomized into either single-type or multi-type exposure (i.e., exposure to two or more types of violence). Those rather time-limited or category-limited approaches to assessing women's history of violence exposure then constrain the conclusions that researchers can draw about the effect of multiple types of exposure across women's broader development. In order to address the limitations of previous work, in the current study we asked a diverse community sample of women about multiple types of exposures to violence (e.g., physical abuse, sexual abuse, witnessing violence) across their entire lifetime.

**EMOTIONAL NONACCEPTANCE**

The term *emotional nonacceptance* describes how people relate to their internal experiences of emotions. In particular, emotional nonacceptance reflects a general unwillingness to experience emotions (sometimes referred to as *experiential avoidance*; S. C. Hayes et al., 2004), including efforts to avoid emotional states (e.g., efforts to avoid fear that may, in turn, increase fear) and the experience of secondary negative emotions in response to primary emotions (e.g., feeling ashamed about being upset; Gratz & Roemer, 2004).
Though several studies have documented positive correlations between emotional nonacceptance and psychopathology (e.g., Soenke, Hahn, Tull, & Gratz, 2010; Vujanovic, Youngwirth, Johnson, & Zvolensky, 2009), emotional nonacceptance describes how people relate to their own internal experiences of emotions distinct from psychiatric symptoms per se (S. C. Hayes et al., 2004).

Although the construct of emotional nonacceptance did not originate from studies of trauma-exposed individuals, recent research has indicated that individuals exposed to traumatic events (including interpersonal violence) report higher levels of emotional nonacceptance than their non-exposed peers (Polusny, Rosenthal, Aban, & Follette, 2004; Tull, Barnett, McMillan, & Roemer, 2007). Well-known models for the treatment of interpersonal trauma (e.g., Herman, 1992; Linehan, 1993) suggest that emotional nonacceptance may be a learned response to the overwhelming stress and pain associated with chronic trauma or victimization. If so, more chronic or frequent experiences of violence (i.e., greater cumulative violence exposure) should be linked with greater emotional acceptance. To date, however, studies examining emotional nonacceptance among trauma-exposed individuals (e.g., Gratz, Bornovalova, Delany-Brumsey, Nick, & Lejuez, 2007; Tull et al., 2007; Valentiner, Foa, Riggs, & Gershuny, 1996) have not specifically tested whether greater cumulative trauma exposure does indeed predict greater emotional nonacceptance.

Though emotional nonacceptance may be adaptive under some conditions (e.g., for limited periods of time, while surviving a trauma), more chronic and cross-situational nonacceptance may be less helpful and perhaps even harmful in the long run (Gross & John, 2003; Herman, 1992; Linehan, 1993). For example, emotional nonacceptance used chronically and inflexibly may undermine a survivor's ability to use emotions for a host of critical functions (e.g., communication). Past research has documented links between traumatic experiences, emotional nonacceptance, and trauma-related psychopathology, though this research has been largely limited to samples of college students (e.g., Jain et al., 2007; Polusny et al., 2004) or clinical (i.e., treatment-seeking) populations (e.g., Gratz et al., 2007; Gratz, Rosenthal, Tull, Lejuez, & Gunderson, 2006). Thus, the current study aimed to extend previous work by testing emotional nonacceptance as a mediator of the link between cumulative violence exposure and mental health outcomes in a racially/ethnically diverse and non-treatment-seeking community sample of women.

**HYPOTHESES AND PLANNED ANALYSES**

We hypothesized that women’s exposure to more types of violence—referred to here as *cumulative violence exposure*—would predict greater
FIGURE 1 Collapsed results of three separate models used to test mediation. Separate models were tested for each symptom outcome: (a) depression, (b) dissociation, and (c) PTSD. Values on paths represent unstandardized beta coefficients ± the standard error of the coefficient. $c =$ total effect (cumulative violence exposure affects symptom severity); $ab =$ total indirect effect (cumulative violence exposure affects symptom severity through emotional nonacceptance); $c' =$ direct effect (cumulative violence exposure affects symptom severity after the indirect effect through emotional nonacceptance is accounted for). PTSD = posttraumatic stress disorder. Adapted from Preacher and Hayes (2008). $^1p < .10$, $^*p < .05$, $^{**}p < .01$, $^{***}p < .001$. 

severity of depression, dissociation, and PTSD symptoms. Furthermore, we hypothesized that this relationship would be mediated by victims’ emotional nonacceptance. Figure 1 provides a collapsed representation of the three separate models that we tested for the prediction of depression, dissociation, and PTSD symptoms among victims. To estimate and test the significance of the mediation effect for each model, we used bootstrapping procedures outlined by A. F. Hayes (2009) and Preacher and Hayes (2008). Several recent simulation studies have demonstrated the use of bootstrapping procedures to be one of the most valid and powerful methods for testing mediation effects (e.g., MacKinnon, Lockwood, & Williams, 2004; Williams & MacKinnon, 2008). Specifically, to test each mediation model, we ran the Preacher and Hayes macro within Predictive Analytics SoftWare Version 19.0. Using a total of 5,000 bootstrapping samples, the macro estimated each path of the models, obtaining bias-corrected and accelerated confidence intervals that were set to 95% (BCa[95%CI]s).

METHOD

Participants

Participants ($N = 93$) included women recruited as part of a larger Violence Against Women study. Participants were recruited from the following places: 53% responded to flyers at community agencies (e.g., mental health clinics, police departments, public housing shelters, social service agencies), 37% responded to Web-based postings, and 10% received information from friends or family members. To be included in the larger study, a participant
had to report at least one childhood violence exposure, in the form of physical and/or sexual abuse before age 14, or a recent exposure in adulthood to interpersonal violence. Exclusion criteria for the larger study included suicide attempts and/or hospitalizations for psychiatric reasons within the 6 months prior to the assessment.

Measures

*Cumulative violence exposure.* Cumulative violence exposure was assessed via a two-stage interview strategy adopted from the National Crime Victims Survey (see Fisher & Cullen, 2000). First, interviewers asked basic screening questions about women’s lifetime exposures to interpersonal violence, including physical abuse, sexual abuse, verbal abuse, and witnessing domestic violence. Second, interviewers asked more detailed questions about any endorsed exposures to violence. Women’s responses were then coded into four basic types of interpersonal victimization: verbal abuse including emotional and psychological violence, physical abuse/assault, sexual abuse/assault, and witnessing domestic violence. A cumulative violence exposure variable was created to represent the sum of types of exposures that women had experienced.

*Emotional nonacceptance.* The 16-item version of the self-report Acceptance and Action Questionnaire (AAQ; S. C. Hayes et al., 2004) assessed emotional nonacceptance. Example items include “It’s OK to feel depressed or anxious” (reverse scored), “I’m not afraid of my feelings” (reverse scored), “Anxiety is bad,” and “I try hard to avoid feeling depressed or anxious.” Participants responded to all items along a Likert-type scale of 1 = never true to 7 = always true. Higher scores indicated greater emotional nonacceptance. The 16-item version of the AAQ has demonstrated reliability and validity across a variety of samples (Bond & Bunce, 2003; S. C. Hayes et al., 2004). Cronbach’s alpha for the AAQ in the current sample was adequate (αAAQ = .77).

*Symptom severity.* All symptoms were assessed via self-report questionnaires. Depression symptoms were assessed with the 21-item Beck Depression Inventory–Second Edition (BDI-II; Beck, Steer, & Brown, 1996). Women rated their experience of depression symptoms (0 = low severity to 3 = high severity) in the 2 weeks immediately prior to the assessment. The BDI-II has demonstrated excellent reliability and validity across a variety of samples (e.g., Beck et al., 1996; Grothe et al., 2005). Cronbach’s alpha for the BDI-II was excellent in the current sample (αBDI = .90). Dissociation symptoms were assessed with a widely used 28-item questionnaire that has demonstrated reliability and validity, the Dissociative Experiences Scale (DES; Bernstein & Putnam, 1986). Women rated their experience of dissociation symptoms (0 = low severity to 100 = high severity). Cronbach’s alpha for the DES was excellent in the current sample (αDES =
Finally, PTSD symptoms were assessed with the 49-item Posttraumatic Diagnostic Scale (PDS; Foa, Cashman, Jaycox, & Perry, 1997). The PDS was designed to assess for PTSD as the disorder is defined by the criteria listed within the Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition, Text Revision (American Psychiatric Association, 2000). Cronbach’s alpha for the PDS was excellent within the current sample ($\alpha_{PDS} = .93$).

Procedure

A university-based institutional review board reviewed and approved all study procedures. Potential participants contacted the researchers and responded to screener questions via phone to assess inclusion/exclusion criteria. Women who met the criteria for the study were invited to an in-person testing session conducted by a graduate student in a university lab setting. Consent information was provided in writing and verbally; participant understanding of consent information was assessed with a quiz. Following consent procedures, participants completed both written and verbally administered self-report questionnaires as well as several behavioral tasks that were part of the larger study. At assessment completion, participants were debriefed and compensated monetarily for their time.

RESULTS

The mean age of participants was 30.70 years ($SD = 6.18$). Of the 83 participants who reported racial or ethnic group identification, 63% were White, 19% were Hispanic/Latina, 16% were Black, 10% were “other,” 3% were Asian/Asian American, and 1% were Native American/Alaska Native. In terms of highest level of education, 18.0% of participants had completed some grade school up to part of high school, 15.7% had obtained a high school diploma, 42.7% had completed partial college or specialized training, 13.5% had obtained a college degree, and 10.1% had had some graduate or professional training. Finally, participants provided the following income information: 40.7%, <$10,000; 12.3%, $10,001–$20,000; 14.8%, $20,001–$30,000; 9.9%, $30,001–$40,000; 6.2%, $40,001–$50,000; 16.0%, >$50,000.

Four of the 93 participants (4.3%) did not complete the measures. Thus, the data that we present in the current study were collected from a sample of 89 participants. Furthermore, analyses involving dissociation only included 87 participants because of incomplete data on the DES for two participants. All variables were examined for violations of statistical assumptions underlying the proposed analyses. Two participants’ scores on the DES were outliers, which were defined as greater or less than 3 $SD$ above the mean for the dissociation variable. However, correction of outliers was
deemed inappropriate given that the variable did not display significant non-normality and the outlying values appeared to represent accurate reporting. Participants reported lifetime exposures to violence in the range of one to four exposures ($M = 2.06$, $SD = 0.65$). Descriptive statistics for emotional nonacceptance and symptoms of depression, dissociation, and PTSD were as follows: AAQ: $M = 65.97$, $SD = 13.05$; BDI-II: $M = 14.71$, $SD = 9.82$; DES: $M = 18.30$, $SD = 13.38$; and PDS: $M = 19.61$, $SD = 11.91$.

Table 1 displays Pearson zero-order correlation coefficients for all bivariate relationships between the variables used in the bootstrapping procedures. All results are based on two-tailed tests of significance. Finally, both Table 2 and Figure 1 display the results of bootstrapping procedures used to test our primary hypotheses that emotional nonacceptance would mediate the relationship between cumulative violence exposure and severity of depression, dissociation, and PTSD symptoms. As indicated in Table 2, all models of symptom severity (depression, dissociation, and PTSD) were statistically significant. Table 2 also displays the BCa(95%CI)s that were estimated for the $ab$ pathways (i.e., indirect pathways) of all models. Consistent with mediation by emotional nonacceptance for all models, no BCa(95%CI) crossed zero. A BCa(95%CI) that does not cross zero indicates that the difference between the $c$ pathway (i.e., the total direct effect) and the $c'$ pathway (i.e., the total indirect effect) in each model is statistically different from zero.

**TABLE 1** Pearson Correlation Coefficients Between All Variables Used in the Bootstrapping Procedures

<table>
<thead>
<tr>
<th>Variable</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Cumulative violence exposure</td>
<td>—</td>
<td>.29***</td>
<td>.32**</td>
<td>.21†</td>
<td>.25*</td>
</tr>
<tr>
<td>2. Emotional nonacceptance</td>
<td>—</td>
<td></td>
<td>.70***</td>
<td>.46**</td>
<td>.43***</td>
</tr>
<tr>
<td>3. Depression</td>
<td>—</td>
<td></td>
<td></td>
<td>.54***</td>
<td></td>
</tr>
<tr>
<td>4. Dissociation</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
<td>.52***</td>
</tr>
<tr>
<td>5. Posttraumatic stress disorder</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: $p < .10$, $* p < .05$, $** p < .01$, $*** p < .001$.

**TABLE 2** Bias-Corrected and Accelerated 95% Confidence Intervals for the Total Indirect Effect ($ab$) of Each Model

<table>
<thead>
<tr>
<th>Effect</th>
<th>Depression ($n = 89$)</th>
<th>Dissociation ($n = 87$)</th>
<th>PTSD ($n = 89$)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Point estimate</td>
<td>Lower</td>
<td>Upper</td>
</tr>
<tr>
<td>$ab$</td>
<td>2.94</td>
<td>0.76</td>
<td>5.02</td>
</tr>
</tbody>
</table>

Notes: 5,000 bootstrapping samples. Depression FDVM: $R^2 = .500^{***}$, $F(2, 86) = 43.028^{***}$. Dissociation FDVM: $R^2 = .216^{***}$, $F(2, 84) = 11.593^{***}$. PTSD FDVM: $R^2 = .199^{***}$, $F(2, 86) = 10.690^{***}$. PTSD = posttraumatic stress disorder; FDVM = full dependent variable model. $*** p < .001$. 
Figure 1 also displays additional results of the bootstrapping procedures: the estimates of unstandardized beta coefficients and standard errors for each pathway (a, b, c, and c'). As Figure 1 indicates, regression coefficients for the a pathways (from cumulative violence exposure to emotional nonacceptance), the b pathways (from emotional nonacceptance to depression, dissociation, or PTSD), and the c pathways (from cumulative violence exposure to depression, dissociation, or PTSD) were significant and in the expected positive direction for all models. Also consistent with mediation by emotional nonacceptance is that the regression coefficients for the c' pathways (from cumulative violence exposure to depression, dissociation, or PTSD, after specifically accounting for emotional nonacceptance) were nonsignificant.

DISCUSSION

The current study examined relationships between cumulative violence exposure, emotional nonacceptance, and three types of symptoms (depression, dissociation, and PTSD) in a community sample of women. Consistent with past research on the deleterious effects of cumulative victimization (e.g., Follette et al., 1996; Green et al., 2000), greater cumulative violence exposure predicted greater mental health symptom severity across symptoms of depression, dissociation, and PTSD. Also, consistent with past research from acceptance-based models of psychopathology (e.g., S. C. Hayes et al., 2004; Vujanovic et al., 2009), higher levels of emotional nonacceptance among victims predicted greater symptom severity across all symptoms. Finally, consistent with the current study's hypotheses and suggestions from the trauma treatment literature (e.g., Herman, 1992), greater cumulative violence exposure predicted greater emotional nonacceptance.

The particular symptoms that we examined within the current study—depression, dissociation, and PTSD—are central to the phenomenon of complex trauma among chronically victimized individuals (e.g., Cook et al., 2005; DePrince, Chu, & Pineda, 2011). Results of bootstrapping procedures supported emotional nonacceptance as a mediator of the relationships between cumulative violence exposure and symptom severity for all symptoms. Thus, the current results also point to the need for continued research regarding the role that emotional nonacceptance plays in either the development and/or maintenance of complex trauma responses. Within the current study, and consistent with S. C. Hayes and colleagues (2004), we viewed emotional nonacceptance as a description of how people relate to their own internal experiences of emotions distinct from psychiatric symptoms per se. Future research utilizing the longitudinal assessment of those constructs will be critical in continuing to establish how emotional nonacceptance is best characterized in relation to psychopathology.
Though these cross-sectional data prohibit establishing temporal precedence and inferring causality, previous theory (e.g., Linehan, 1993) and empirical evidence (e.g., Gratz et al., 2007; Segal, Williams, & Teasdale, 2002) informed our a priori hypotheses of mediation. The results are consistent with those hypotheses: Greater cumulative violence exposure leads to increased emotional nonacceptance, which in turn contributes to more severe mental health symptoms among victims. Nevertheless, future longitudinal studies should attempt to replicate these findings in order to provide more direct support for our particular model and to rule out alternative models. For instance, increased symptom severity also increases the risk for future victimization (e.g., Cloitre, 1998), and that path was not represented in the models of symptoms that we tested. Although highly complex and transactional relationships among variables are often difficult to establish statistically, the use of research designs that are prospective, are longitudinal, and can manipulate a variable of interest (e.g., training in psychotherapies that emphasize emotional acceptance) will be a critical next step in understanding women’s responses to cumulative violence exposure.

The results of this study should be interpreted in light of two additional limitations. First, the current study relied exclusively on self-report measures. Because of shared method variance, the results may overestimate the relationships between the variables. The correlation between depression and emotional nonacceptance was strong and consistent with results of other studies relating several versions of the AAQ to the BDI (e.g., Bond & Bunce, 2000; Bond et al., 2011). Previous studies also provide ample evidence that the constructs of emotional nonacceptance and depression, as measured respectively by various versions of the AAQ and BDI, display substantive (vs. merely tautological) associations (Bond et al., 2011; Forsyth, Parker, & Finlay, 2003). Future research should strive for a multimethod approach, especially when assessing constructs that may demonstrate fairly high overlap, such as emotional nonacceptance and trauma-related symptoms. Second, all participants in the study were adult women. Future research should explore whether this study’s results generalize to different populations of individuals (e.g., males, children, or adolescents). Some research has suggested that male and female victims of interpersonal violence differ in terms of the mental health outcomes they experience (e.g., see Putnam, 2003, for a review of gender differences in sexual abuse survivors), but other research has found little evidence for those gender differences (e.g., Dube et al., 2005).

Despite the limitations of the current study, the findings highlight the need for future longitudinal research projects that can test causal relationships between the experiences of cumulative violence, emotional nonacceptance, and mental health outcomes. To the extent that emotional nonacceptance is indeed a mechanism through which cumulative violence exposure influences the development of mental health symptoms, avenues for intervention can be explored. Current psychotherapies that
train individuals in improving their capacity for emotional acceptance, such as mindfulness- and acceptance-based psychotherapies (e.g., Kabat-Zinn, 2003), have already shown success in reducing a host of psychological symptoms, including anxiety (Kabat-Zinn, Massion, Kristeller, & Peterson, 1992), depression (e.g., Forman, Herbert, Moitra, Yeomans, & Geller, 2007), dissociation (e.g., Kimbrough, Magyari, Langenberg, Chesney, & Berman, 2010), and PTSD (e.g., Nakamura, Lipschitz, Landward, Kuhn, & West, 2011; Orsillo & Batten, 2005).

Acceptance-based therapies, and the accompanying improvements in capacity to tolerate and engage (rather than avoid, which might increase) painful emotional experiences, might be especially relevant for victims of chronic exposure to violence. However, acceptance-based therapies have been explored to a relatively less thorough degree among such populations given the real challenges and barriers to treatment that victims of ongoing interpersonal violence may initially face. For example, victims may still be experiencing chronic stressors within their environment that require attention first or may need to utilize emotional nonacceptance as part of their survival in the context of ongoing threats. As has long been observed in the trauma treatment literature, addressing safety should precede other psychological interventions (Herman, 1992). Once safety is established, efforts to address emotional nonacceptance should include talking with clients about emotional nonacceptance as an understandable attempt to protect themselves from overwhelming and painful emotions. Clients should not be blamed for the actions of perpetrators or the use of cognitive and emotional strategies, such as emotional nonacceptance, to navigate abusive relationships. In the presence of safety and the absence of victim blaming, we see addressing and working to enhance emotional acceptance among victims of chronic violence as a potential path toward increasing tools for client empowerment and mental health.

NOTE

1. To ensure the accuracy of the decision to not correct outliers, we performed comparisons of the results with and without the outliers for all analyses involving dissociation. The results were nearly identical, with all pathways estimated as very similar numerical values and signs and with no changes in the statistical significance of the findings.

REFERENCES


