Victim–Offender Relationship Status Moderates the Relationships of Peritraumatic Emotional Responses, Active Resistance, and Posttraumatic Stress Symptomatology in Female Rape Survivors

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This study examined whether the level of victim–offender relationship (VOR) moderated the relationship between peritraumatic fear and active resistance as well as the relationship between peritraumatic fear and posttraumatic stress symptom severity in a community sample of female rape survivors. Participants (N = 124) were interviewed about their emotional and behavioral responses during the rape and assessed for posttraumatic stress symptomatology within 1 month of the assault. Results indicated that peritraumatic fear was positively associated with active resistance, but only among survivors of acquaintance rape. In addition, peritraumatic fear was positively associated with posttraumatic stress symptom severity, but only among survivors of intimate partner rape. These results suggest that VOR may be an important contextual factor that influences emotional and behavioral responses during rape as well as posttraumatic stress symptomatology in its aftermath.

Keywords: posttraumatic stress, rape, peritraumatic fear, resistance, victim–offender relationship

Empirical evidence has suggested that survivors of interpersonal traumas, compared with survivors of noninterpersonal traumas, are more likely to develop posttraumatic stress disorder (PTSD; Kessler, Chiu, Demler, & Walters, 2005; Kessler et al., 1994). These effects may be particularly accentuated for survivors of rape and sexual assault (SA). Specifically, data from the National Comorbidity Survey showed that, whereas less than 10% of women who reported a noninterpersonal event (e.g., accident, natural disaster) as their most upsetting trauma developed PTSD, approximately 46% of women who reported rape as their most upsetting trauma developed PTSD (Kessler, Sonnega, Bromet, Hughes, & Nelson, 1995). A meta-analysis of PTSD risk factors (Ozer, Best, Lipsey, & Weiss, 2003) also found that interpersonal traumas, relative to accidents or combat-related traumas, demonstrated stronger relationships between both pre- and peritraumatic factors (i.e., history of prior trauma, psychological problems prior to trauma, perceived life threat during trauma) and PTSD. Charuvastra and Cloitre (2008) suggested that the higher rate of PTSD following events generated by human intent highlights the importance of subjective experience as a contributor to the development of PTSD. In light of these findings that suggest that interpersonal and noninterpersonal traumas differ in potentially important ways, it is necessary to examine factors that may account for such differences.

The victim–offender relationship (VOR) is a contextual factor unique to interpersonal traumas, such as rape, which may influence the strength and direction of a victim’s emotional, cognitive, and behavioral responses during as well as after the trauma. Empirical research on whether the VOR affects survivor reactions during and after the assault has provided inconsistent results. Some studies have found that survivors of known-offender SA were more likely to meet criteria for PTSD or report more severe PTSD symptomatology than those of unknown-offender SA (Lawyer, Ruggiero, Resnick, Kilpatrick, & Saunders, 2006; Masho & Ahmed, 2007), whereas others have found the opposite relationship (Bowman, O’Gorman, & Sayers, 1991; Ullman & Filipas, 2001; Ullman, Filipas, Townsend, & Starzynski, 2006). Likewise, although most studies have found that peritraumatic fear or the experience that one’s life was threatened were greater among survivors of unknown-offender SA (Ellis, Atkeson, & Calhoun, 1981; Koss, Dinero, Seibel, & Cox, 1988; Ullman & Siegel, 1993; Ullman et al., 2006), one study found that survivors of known- and unknown-offender SA did not differ on the degree...
to which they experienced peritraumatic fear (Frank, Turner, & Stewart, 1980). Inconsistent findings have also been revealed when examining the association between VOR and physical and verbal resistance during the assault. Specifically, some research has shown that SA survivors may be less likely to physically resist during the assault as the VOR becomes more intimate in nature (Bart & O’Brien, 1984; Clay-Warner, 2002, 2003; Koss et al., 1988; Turchik, Probst, Chau, Nigoff, & Gidycz, 2007), whereas other studies have found no differences in the use of physical or verbal resistance between known- and unknown-offender SA survivors (Ullman & Siegel, 1993). However, Ullman and Siegel (1993) also found that, within the known-offender SA group, survivors of acquaintance SA resisted more, both physically and verbally, than survivors of intimate partner SA.

There are several potential explanations for the apparent discrepancies regarding the influence of the VOR on peritraumatic reactions and PTSD, including between-study variability in how sexual assault was defined and defining VOR status using a simple “known” versus “unknown” dichotomy. Another possible explanation is that VOR may exert its effects more meaningfully when it affects the direction or strength of the associations among other variables (i.e., moderates the zero-order correlations among other variables, such as peritraumatic fear, active resistance, and PTSD). Many studies have provided support for the association between peritraumatic fear and PTSD (e.g., Brewin, Andrews, & Rose, 2000; Kilpatrick et al., 1998; Ozer et al., 2003), but these findings are not universally supported (e.g., Roemer, Orsillo, Borkovec, & Litz, 1998). Furthermore, even in studies where an overall association between peritraumatic fear and PTSD was found, some individuals who experienced peritraumatic fear did not develop PTSD (e.g., Creamer, McFarlane, & Burgess, 2005). In addition, there has been little work examining the relationship between peritraumatic fear and resistance. One study with a sample of known-offender SA survivors found that fear of exacerbating injury was positively associated with active resistance (Nuris, Norris, Young, Graham, & Gaylord, 2000). On the other hand, in a rape sample that included multiple VOR types, Kaysen, Morris, Rizvi, and Resick (2005) found that perceived threat of harm was related to passive resistance behaviors but not active resistance behaviors.¹ It is possible that the VOR may help explain the equivocal findings regarding the relationships between peritraumatic fear and PTSD and resistance.

To our knowledge, only one study has examined VOR as a moderator. In that study, Ullman et al. (2006) found that peritraumatic fear was positively related to PTSD symptomatology for survivors of SA perpetrated by acquaintances or relatives, but not for survivors of SA perpetrated by strangers or intimate partners. Ullman and colleagues suggested that these findings may be the result of restricted variability for peritraumatic fear and PTSD symptomatology among survivors of stranger SA; however, they did not provide an explanation for their null finding among survivors of intimate partner SA. One potential explanation is that survivors of intimate partner SA had experienced a previous assault by the same assailant and knew that the index assault was not likely to lead to serious injury or death. Although the Ullman et al. study is notable as the first to examine the VOR as a moderator of other variable associations, their study had significant limitations. Specifically, the authors relied on a self-report measure to assess PTSD symptomatology and used a single “yes–no” item to assess peritraumatic fear. Furthermore, results of the study may have been confounded by a potential retrospective memory bias due to an extended period of time (M = 13 years) between the occurrence of the index assaults and participation in the study. These limitations suggest that further examination of the VOR as a moderator of the relationship between peritraumatic fear and PTSD symptomatology is warranted. It is important to note that no prior study has examined the extent to which VOR moderates the relationship between peritraumatic fear and survivors’ active resistance during the assault.

The current investigation explored the extent to which VOR moderates the relationship between peritraumatic fear and active resistance as well as the relationship between peritraumatic fear and posttraumatic stress symptomatology among a sample of female rape survivors. Unlike previous investigations, the current study used structured interviews to assess peritraumatic emotions and behaviors and PTSD symptomatology, and participants were assessed within 1 month of their assault. Based on the findings of Ullman et al. (2006), we predicted a positive relationship between peritraumatic fear and PTSD symptom severity for survivors of acquaintance rape, but not for survivors of stranger or intimate partner rape. In addition, based on the findings of Nuris and colleagues (2000), we predicted a positive relationship between peritraumatic fear and active resistance for survivors of known-offender rape (i.e., acquaintance and intimate partner rape), but not for unknown-offender (i.e., stranger) rape. This prediction is also consistent with research showing a ceiling effect for peritraumatic fear (Ullman et al., 2006) and active resistance (Koss et al., 1988) among survivors of stranger rape.

### Method

#### Participants

Participants were recruited for a study investigating the course of recovery of rape and physical assault survivors. The current investigation focused solely on survivors of rape (N = 140). Sixteen participants were excluded from the analyses because they either were missing VOR data or endorsed “other” as their perpetrator’s relationship to them, which precluded categorization into one of the VOR groups. The final sample consisted of 124 female survivors of completed, male-perpetrated rape. In this investigation, rape was defined as any crime involving nonconsensual vaginal, oral, or anal penetration. Participants were excluded from participation in the study because of illiteracy, apparent psychosis, or intoxication at the time of the assessment. Each participant received $70 for participation in the first session of the study.

The mean age of the sample was 29.95 years (SD = 8.21), and the mean education level was 12.52 years (SD = 2.14). The racial composition of the sample was 65% African American, 28% White, and 7% who identified as another ethnicity. The marital status composition of the sample was 57% single, 12% married or living with someone, 29% separated or divorced, and 2% widowed. The majority of the sample (73%) had an income of less

¹ Kaysen et al. (2005) analyzed data that were combined from different data sets, one of which was the same data set on which the current study’s analyses were based.
than $10,000 in the past year, and only 7% had an income greater than $30,000. Over half of the participants reported a previous sexual assault prior to the rape.

**Procedure**

Participants were recruited through police departments, hospitals, and victim assistance agencies and were asked to either call or return a postcard if they were interested in participating in the study. Individuals who expressed interest in participating completed the assessment within 1 month of their rape. Assessments were conducted in a laboratory setting in a large, midwestern city by trained master’s-level clinicians who received ongoing supervision. Those who could not be scheduled within this time period were not invited to participate.

**Measures**

The Clinician-Administered PTSD Scale (CAPS; Blake et al., 1990) is a structured clinical interview that assesses Diagnostic and Statistical Manual of Mental Disorders (3rd ed., rev.) PTSD symptomatology. The version of the CAPS used in the current study assesses the presence of the 17 core PTSD symptoms within the past week (American Psychiatric Association, 1987). Items are scored on a 0–4 frequency scale (0 = none of the time, 1 = little of the time/once or twice, 2 = some of the time/once or twice a week, 3 = much of the time/several times a week, 4 = most of the time/daily or almost every day) and a 0–4 intensity scale (0 = not at all, 1 = a little/mild, minimal distress, 2 = some/moderate distress, 3 = a lot/severe distress, 4 = a whole lot/extreme, incapacitating distress). The CAPS provides both a dichotomous diagnosis of PTSD and a continuous symptom severity score. The overall symptom severity score is determined by adding the frequency and intensity values for each symptom, and then adding each of these 17 values, providing a total PTSD score ranging from 0 to 136.

The CAPS has consistently demonstrated excellent psychometric properties (see Weathers, Keane, & Davidson, 2001, for a review). Specifically, Blake and colleagues (1990) reported perfect agreement in PTSD diagnosis, interrater reliability coefficients ranging between .92 and .99, internal consistency alpha coefficients ranging between .73 and .85, and convergent validity with the Mississippi Scale for Combat-Related PTSD and the PK Scale of the Minnesota Multiphasic Personality Inventory. Furthermore, Weathers and colleagues (Weathers, Blake, & Litz, 1991; Weathers et al., 1992a, 1992b) found that the CAPS demonstrated excellent 2- to 3-day test–retest reliability (between .90 and .98). The excellent psychometric properties of the CAPS have been replicated in a number of other studies (e.g., Hovens et al., 1994; Neal, Busuttil, Herepath, & Strike, 1994; Radnitz et al., 1995). The overall symptom severity score was used in the current study as the measure of PTSD symptom severity following the rape. In our sample, the Cronbach’s alpha coefficient was .91.

The Standardized Trauma Interview (STI; Resick, 1986; Resick, Jordan, Girelli, Hutter, & Marhoefer-Dvorack, 1988) is a structured interview consisting of 221 closed-response questions that assess participant demographic characteristics, information about the sexual assault, peritraumatic emotions and behaviors, social support, prior victimization, and treatment history. The current study used questions on the STI that referred to emotions and behaviors during the assault, the relationship between the survivor and perpetrator, other assault characteristics, and the survivor’s history of prior abuse. The STI has been used in a number of other studies (e.g., Kaysen et al., 2005; M. Miller & Resick, 2007; Resick et al., 2008; Resick, Nishith, Weaver, Astin, & Feuer, 2002; Rizvi, Kaysen, Gutfner, Griffin, & Resick, 2008).

The peritraumatic fear scale, created by Rizvi et al. (2008) using items from the STI, was employed in this study.² This five-item scale was derived from a pool of 29 items assessing peritraumatic emotions and behaviors using factor analysis. Items on this scale ask about the degree of fear, terror, worry, helplessness, and anxiety experienced by participants during the assault and employ a Likert-type scale ranging from 0 (none of the time) to 4 (all of the time). Scores on these items were summed to create a composite peritraumatic fear score ranging from 0 to 20. Because the Rizvi et al. sample comprised both sexual and physical assault survivors and, thus, differed from the sample examined in this study, we examined the psychometric properties of this scale using MPlus statistical software (Muthén & Muthén, 2007) prior to employing the measure in this investigation. A confirmatory factor analysis (CFA) of the five items suggested that they adequately assessed the construct of interest (see Table 1 for CFA fit indices, Table 2 for factor loadings, and Table 3 for interitem correlations). Results also showed that the scale’s internal consistency (Cronbach’s alpha) was acceptable (α = .77).

The active resistance scale, similar to the peritraumatic fear scale, was created by Rizvi et al. (2008) using items from the STI. This six-item scale was derived from the previously noted pool of 29 items assessing peritraumatic emotions and behaviors using factor analysis. Items in this scale assessed the degree to which the participants used each of six active resistance strategies during the assault and employed a Likert-type scale ranging from 0 (none of the time) to 4 (all of the time). Scores on these items were summed to create a composite active resistance score ranging from 0 to 24. Again, because of sample differences, we examined the psychometric properties of this scale using MPlus statistical software (Muthén & Muthén, 2007) before employing the measure in this investigation. CFA results showed that the measurement model fit for these items was not ideal (see Table 1 for CFA fit indices, Table 2 for factor loadings, and Table 3 for interitem correlations). An examination of the factor loadings led us to remove two of the original items (bit or scratched; and begged, pleaded, cried) from the scale. The remaining four items (tried to struggle free; kicked, hit, punched; screamed; cursed or threatened) displayed a good model fit and were retained for subsequent analyses. The Cronbach’s alpha for the scale (possible range = 0–16) was acceptable (α = .76).

VOR status was also assessed using the STI. The STI listed the following possible VOR types: stranger, seen before but never talked to him, talked to him but was not a friend, date, coworker, friend, boyfriend, ex-boyfriend/spouse, cohabitant, fiancé, husband, or other. Respondents were placed into one of three groups based on their responses: stranger rape (n = 70), defined as any

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² Rizvi et al. (2008) analyzed data that were combined from different data sets, one of which was the same data set on which the current study’s analyses were based.
individual with whom the survivor had no previous relationship; acquaintance rape \((n = 39)\), which included individuals with whom the survivor had seen or talked to prior to the assault, including dates, coworkers, and friends; and intimate partner rape \((n = 15)\), which included current and former boyfriends, husbands, and cohabitants. The inclusion of current and former partners in the same group is consistent with previous research \((Logan, Cole, & Capillo, 2007; Vaughan, 2001)\). Further division of the acquaintance rape group for the purpose of analyses was not possible because of the small sample sizes, which limited power to detect effects.

## Results

### Preliminary Analyses

VOR groups were compared on demographic variables using one-way analysis of variance (ANOVA) and chi-square analyses. There were no significant differences between VOR groups on any victim demographic variables \(i.e., \) age, education, race, marital status, and income; lowest \(p = .18\). One-way ANOVAs were conducted to examine group differences in the three primary variables of interest \(peritraumatic fear, \) active resistance, and PTSD symptom severity as well as assault characteristics and history of victimization \(see Table 4\). Although there were no group differences with regard to other assault characteristics. Results indicated that survivors of stranger rape were significantly more likely to report that a weapon was displayed than survivors of known-perpetrator rape \(both acquaintances \) and intimates\). Although there were no group differences with regard to vaginal penetration, survivors of stranger and intimate rape were more likely to report anal penetration than survivors of acquaintance rape. In addition, although there were no group differences with regard to childhood physical abuse history, childhood sexual abuse history, and previous adult rape or sodomy, survivors of intimate rape were more likely to report previous physical abuse by an intimate partner than survivors of stranger rape.

Multiple linear regression analyses were conducted to examine the relationships between peritraumatic fear and active resistance as well as peritraumatic fear and PTSD symptom severity for the combined sample \(all VOR groups included\). Results indicated that peritraumatic fear positively predicted PTSD symptom severity \(\beta = .20, p < .05\), but did not significantly predict active resistance \(ns\).

### Moderator Analyses

Following the recommendations of Aiken and West \(1991\) and Frazier, Tix, and Barron \(2004\), we performed multiple hierarchi-

<table>
<thead>
<tr>
<th>Variable</th>
<th>(\chi^2)</th>
<th>(df)</th>
<th>CFI</th>
<th>TLI</th>
<th>RMSEA</th>
<th>SRMR</th>
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<td>Fear</td>
<td>7.65</td>
<td>5</td>
<td>.98</td>
<td>.97</td>
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<td>.031</td>
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<tr>
<td>Resistance (6 items)</td>
<td>25.45</td>
<td>9</td>
<td>.91</td>
<td>.85</td>
<td>.122</td>
<td>.052</td>
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<tr>
<td>Resistance* (4 items)</td>
<td>3.37</td>
<td>2</td>
<td>.99</td>
<td>.96</td>
<td>.075</td>
<td>.025</td>
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*Variable used in subsequent analyses.

<table>
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<tr>
<th>Variable</th>
<th>Factor loading</th>
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<tr>
<td>Fear</td>
<td></td>
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<tr>
<td>Afraid</td>
<td>.83</td>
</tr>
<tr>
<td>Worried</td>
<td>.68</td>
</tr>
<tr>
<td>Helpless</td>
<td>.53</td>
</tr>
<tr>
<td>Anxious</td>
<td>.57</td>
</tr>
<tr>
<td>Terrified</td>
<td>.69</td>
</tr>
<tr>
<td>M</td>
<td>.66</td>
</tr>
<tr>
<td>Resistance</td>
<td></td>
</tr>
<tr>
<td>Struggled free</td>
<td>.81</td>
</tr>
<tr>
<td>Kicked, hit, punched</td>
<td>.73</td>
</tr>
<tr>
<td>Screamed</td>
<td>.63</td>
</tr>
<tr>
<td>Cursed, threatened</td>
<td>.46</td>
</tr>
<tr>
<td>M</td>
<td>.65</td>
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</table>

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<th>Variable</th>
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<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<tr>
<td>Fear</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Felt afraid</td>
<td>—</td>
<td>.58**</td>
<td>.55**</td>
<td>.45**</td>
<td>.42**</td>
</tr>
<tr>
<td>2. Felt terrified</td>
<td>—</td>
<td>.41**</td>
<td>.35**</td>
<td>.38**</td>
<td></td>
</tr>
<tr>
<td>3. Felt worried</td>
<td>—</td>
<td>.32**</td>
<td>.48**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Felt helpless</td>
<td>—</td>
<td></td>
<td>—</td>
<td>.27**</td>
<td></td>
</tr>
<tr>
<td>5. Felt anxious</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resistance</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1. Struggled free</td>
<td>—</td>
<td>.61**</td>
<td>.50**</td>
<td>.42**</td>
<td></td>
</tr>
<tr>
<td>2. Kicked, hit, punched</td>
<td>—</td>
<td>.50**</td>
<td>.28**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Screamed</td>
<td>—</td>
<td></td>
<td>.32**</td>
<td></td>
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<tr>
<td>4. Cursed, threatened</td>
<td>—</td>
<td></td>
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</tr>
</tbody>
</table>

Note. \(n = 123, CFI = \) comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.
Table 4

<table>
<thead>
<tr>
<th>Variable</th>
<th>Stranger (S)</th>
<th>Acquaintance (A)</th>
<th>Intimate (I)</th>
<th>F or $\chi^2$</th>
<th>Group comparison</th>
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</thead>
<tbody>
<tr>
<td>Mean (SD) Fear</td>
<td>17.42 (3.57)</td>
<td>16.14 (4.23)</td>
<td>16.13 (4.69)</td>
<td>1.55</td>
<td>—</td>
</tr>
<tr>
<td>Resistance</td>
<td>3.50 (3.65)</td>
<td>5.61 (5.06)</td>
<td>6.87 (2.45)</td>
<td>6.15**</td>
<td>S &lt; A, I</td>
</tr>
<tr>
<td>PTSD symptom severity</td>
<td>68.97 (22.69)</td>
<td>76.32 (18.29)</td>
<td>55.08 (29.56)</td>
<td>4.48*</td>
<td>A &gt; I</td>
</tr>
<tr>
<td>Assault characteristics (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weapon displayed</td>
<td>73</td>
<td>21</td>
<td>40</td>
<td>27.66***</td>
<td>S &gt; A, I</td>
</tr>
<tr>
<td>Vaginal penetration</td>
<td>91</td>
<td>95</td>
<td>100</td>
<td>1.27</td>
<td>—</td>
</tr>
<tr>
<td>Anal penetration</td>
<td>22</td>
<td>5</td>
<td>29</td>
<td>5.81</td>
<td>S, I &gt; A</td>
</tr>
<tr>
<td>History of abuse (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child physical abuse</td>
<td>63</td>
<td>68</td>
<td>73</td>
<td>0.64</td>
<td>—</td>
</tr>
<tr>
<td>Child sexual abuse</td>
<td>58</td>
<td>51</td>
<td>67</td>
<td>1.04</td>
<td>—</td>
</tr>
<tr>
<td>Past rape or sodomy</td>
<td>58</td>
<td>59</td>
<td>73</td>
<td>1.05</td>
<td>—</td>
</tr>
<tr>
<td>Past partner physical abuse</td>
<td>47</td>
<td>65</td>
<td>87</td>
<td>8.58*</td>
<td>S &lt; I</td>
</tr>
</tbody>
</table>

Note. PTSD = posttraumatic stress disorder.

* $p < .05$, ** $p < .01$, *** $p < .001$.

The present study supports the notion that VOR may moderate the relationships among peritraumatic responses during rape and the psychological sequelae to such experiences. In this study, VOR moderated the relationship between peritraumatic fear and active resistance, such that greater levels of peritraumatic fear predicted greater attempts to actively resist one’s attacker among survivors of acquaintance rape, but not among survivors of stranger rape and intimate partner rape. One speculative explanation for these results is that, whereas the survivors of stranger and intimate partner rape were likely to experience a more violent assault (as evidenced by the greater likelihood of the involvement of a weapon or anal penetration) and consequently experience a reasonable and heightened fear of serious injury or death, survivors of acquaintance rape may have initially perceived that they could successfully resist against their perpetrators. Unfortunately, their active resistance did not prevent the rape, leading to subsequent increases in fear related to their assault.

In contrast, it is likely that survivors of stranger rape experience more intense fear, but resist less during the assault, as a result of the unknown nature of the perpetrator, the unpredictability of the circumstances, and the greater reported use of weapons during the assault. It is possible that these contextual features associated with stranger rape may have contributed to higher levels of fear and lower levels of resistance, as these women may have been particularly concerned with the possible lethality of the assault. This same reasoning applies to survivors of intimate partner rape, defined here as rape perpetrated by current and former boyfriends and husbands. In these instances, it is likely that survivors experienced less fear but offered more active resistance, as a result of having greater familiarity with the perpetrator and the greater perceived predictability of the assault circumstances. These
women were also the most likely to report past intimate partner physical abuse, which is not surprising given that abusive intimate partners often engage in multiple types of violence (J. Miller, 2006; Smith, Thornton, DeVellis, Earp, & Coker, 2002). It is possible that their familiarity with intimate partner abuse and their past survival of such assaults may have suggested that their partner was not likely to seriously injure or kill them, leading them to actively resist regardless of their level of fear. Taken together, we caution researchers and practitioners not to generalize the positive relationship between peritraumatic fear and active resistance to all VOR groups.

Results also indicated that VOR moderated the relationship between peritraumatic fear and PTSD symptom severity, such that greater levels of peritraumatic fear predicted greater PTSD symptom severity only among survivors of intimate partner rape. Notably, a significant relationship between peritraumatic fear and PTSD symptom severity was found when all VOR types were included in the analysis. Although these results should be interpreted with caution given that the incremental effect of the interaction term on PTSD symptom severity was only marginally significant, it has been previously noted that moderator effects are notoriously difficult to find in nonexperimental studies (McClelland & Judd, 1993). Furthermore, it has been suggested previously that moderator effects explaining as little as 1% of the variance should be considered significant (Evans, 1985). The current analysis revealed that the interaction term uniquely predicted 5% of the variance in PTSD symptom severity, above and beyond the main effects of peritraumatic fear and VOR. These results differ from those of Ullman and colleagues (2006), who found that peritraumatic fear was positively associated with PTSD symptomatology for survivors of acquaintance- and relative-perpetrated sexual assault, but not for survivors of stranger- and intimate partner-perpetrated sexual assault. This discrepancy may be due to the fact that the current study focused solely on survivors of completed rape, whereas Ullman et al. included participants with a range of sexual victimization experiences (i.e., completed rape, attempted rape, sexual coercion, and sexual contact). Although Ullman et al. did find an association between peritraumatic fear and PTSD symptomatology for survivors of acquaintance- and relative-perpetrated sexual assault, including a broader range of sexual assault experiences may have precluded these investigators from finding this association among survivors of intimate partner SA.
addition, this discrepancy may be due to the previously mentioned methodological differences between the two studies as well as to the use of a different data analytic approach. In contrast to our approach of maximizing statistical power by including all VOR groups in the analyses, Ullman et al. examined the relationship between peritraumatic fear and PTSD symptomatology separately for each VOR group.

It is also possible that our finding that peritraumatic fear was related to PTSD symptomatology for survivors of intimate partner rape only reflects the differing effects of rape contingent on the VOR. Consistent with previous theories suggesting that traumatic experiences violate an individual’s basic assumptions that the world is safe and meaningful (e.g., Janoff-Bulman, 1992; Resick & Schnicke, 1992) and that one’s intimate partner can be trusted not to violate her with such a demeaning betrayal, survivors of intimate partner rape may have experienced more extreme violations of such assumptions than other survivors of SA, resulting in a stronger relationship between peritraumatic fear and PTSD symptomatology.

Furthermore, intimate partner rape is likely qualitatively different from stranger and acquaintance rape because of the ongoing relationship context in which it occurs. Intimate partner rape most frequently occurs in the context of physical and emotional relationship abuse, which was not examined in this study (Bennice & Resick, 2003; Bennice, Resick, Mechanic, & Astin, 2003; Martin, Taft, & Resick, 2007). In this study, a larger percentage of survivors of intimate partner rape reported anal penetration during their rapes, indicating more brutal assaults. This finding might help explain the relationship between peritraumatic fear and PTSD symptom severity among survivors of intimate partner rape (Thornhill & Thornhill, 1990a, 1990b, 1990c, 1991). In other words, it is possible that VOR may be a proxy for other variables (e.g., other violence, assault severity, types of acts perpetrated), which may affect the degree to which peritraumatic fear is associated with PTSD symptom severity. Future research should examine this possibility.

Although additional research is needed to replicate the current study’s findings, these results may have practical implications for clinicians who treat SA survivors. Specifically, these findings highlight the importance of regularly obtaining information about the VOR during the assessment of rape survivors. Clinicians should also be aware of the potential role that the VOR may play in an individual’s emotional and behavioral response to the SA as well as the development of PTSD. These findings also support the use of interventions that are specifically tailored to survivors of intimate partner rape, given the unique relationship observed between peritraumatic fear and PTSD symptomatology for these women. If the intimate partner rape survivor is still in the abusive relationship, then clinicians should focus on prevention and safety planning through helping the survivor understand and acknowledge the risks and dangers associated with staying in the relationship and challenging self-blame attributions (Shields, Resick, & Hanneke, 1990). Such efforts should also include teaching problem-solving strategies and examining ways to safely remove the survivor from her abusive relationship. Once the survivor is no longer in the abusive relationship, then therapy can focus on her PTSD symptomatology. Cognitive processing therapy (CPT), which was developed to treat PTSD in rape survivors (Resick & Schnicke, 1992), has been suggested for use with intimate partner and marital rape survivors (Westwell, 1998). CPT activates the trauma memory and then challenges and alters specific misattributions and other maladaptive cognitions related to the traumatic event. Relevant issues of safety, trust, power, esteem, and intimacy are also addressed in CPT. Notably, CPT has been shown to significantly reduce PTSD symptomatology as well as assault-related guilt that may exacerbate PTSD symptomatology (Resick et al., 2002, 2008). Furthermore, clinicians and researchers may benefit from taking a more nuanced approach to examining the VOR by assessing an array of contextual variables for which VOR may serve as a proxy.

There are several limitations to the current investigation. First, we used a convenience sample of survivors of completed rape who reported their experiences to police or other authorities, thus overrepresenting the number of severe assaults, stranger-perpetrated assaults, and assaults involving a weapon (Kayser et al., 2005). Second, more than half of our sample experienced a previous sexual assault; therefore, PTSD symptomatology reported in this study may be related to or exacerbated by previous assaults. In addition, our intimate partner-perpetrated assault group was relatively small. However, the significant findings for this group point to the inherent strength of the relationship based on the VOR categories used. Finally, data were collected retrospectively, with peritraumatic responses assessed contemporaneously with symptom severity measures; thus, recall may have been influenced by current functioning (Briere, 1997). However, the short interval between assault and assessment could temper any memory biases occurring over time.

Future research should consider the influence of VOR on additional peritraumatic responses and dimensions of postassault psychological functioning. It would be beneficial to examine the extent to which the VOR moderates the relationships between additional peritraumatic responses and PTSD when taking into account the dynamic nature of PTSD symptoms over time. This is particularly relevant in light of previous findings suggesting that women who were either sexually or physically assaulted by a stranger had smaller symptom reductions over time than women assaulted by someone known to them (Gutner, Rizvi, Monson, & Resick, 2006). Future research should also consider examining the VOR using continuous measures of intimacy or trust, as it is likely that two people categorized as acquaintances may vary significantly in level of intimacy or trust with the victim. Finally, future studies should work to parse apart the mechanisms behind the relationships among peritraumatic experiences and postassault psychological functioning, taking contextual factors such as VOR into consideration.

References


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