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Attitudes Mediate the Association Between Childhood Disciplinary History and Disciplinary Responses

Mary Bower-Russa
Grand Valley State University

According to recent estimates, childhood abuse victims are at 12 times higher risk for child abuse perpetration than those without such abusive histories. This study focused on delineation of the mechanisms by which intergenerational patterns of abuse may occur and, in particular, the role that disciplinary attitudes may play in mediating the relation between disciplinary history and risk for abusive parenting. Participants (n = 459) completed a series of questionnaires to assess childhood history, disciplinary attitudes, and disciplinary practices. Structural equation modeling indicated that the association between disciplinary history and disciplinary responses was partially mediated by attitudes, with more than half of the association between history and responses accounted for by attitudes. These findings support the need for interventions to focus on attitudinal change when attempting to reduce risk for perpetration among those with histories of abuse.

Keywords: child abuse; transgenerational patterns; disciplinary attitudes; physical discipline; escalation

In the ongoing attempt to better understand the complex dynamics that lead to childhood physical abuse, one risk factor that has drawn considerable attention in the literature historically is a history of childhood physical maltreatment (e.g., Bower-Russa, Knutson & Winebarger, 2001; Gelles, 1973; Kaufman & Zigler, 1989; Rutter, 1983; Steele & Pollack, 1974; Widom, 1989). In a recent review of this literature, Ertem, Leventhal, and Dobbs (2000) noted a range of methodological shortcomings in the existing research in this area. In fact, their methodological critique identified only 1 of the 10 studies (i.e., Egeland, Jacobvitz, & Sroufe, 1988) that they reviewed that showed an appropriate level of methodological rigor. Notably, however, using data from that study, the risk for mothers who were abused during childhood to abuse their children was 12 times higher than the risk for mothers with supportive parents during childhood (Ertem et al., 2000). Thus, although the majority of childhood abuse victims do not become abusers, a history of childhood maltreatment must be considered an important risk factor for later abuse perpetration. The purpose of the present study was to more clearly delineate the mechanisms by which childhood history of abuse can be associated with increased risk for punitive parenting and, specifically, to clarify the role that attitudes may play in accounting for this association.

A significant literature has focused on parental attitudes and the role that they may play in parental disciplinary responding. For example, attitudes that are devaluing of children have been associated with parental use of physical discipline in the home (e.g.,

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Jackson et al., 1999; Thompson, Christiansen, Jackson, & Wyatt, 1999). Additionally, abusive mothers have been found to have more negative perceptions of the abused child (Larrance & Twentyman, 1983), more unrealistic expectations regarding attainment of developmental milestones, and difficulties in problem-solving to manage child behaviors (Azar, Robinson, Hekimian, & Twentyman, 1984; Williamson, Bouduin, & Howe, 1991). Perception of the child being deserving of harsh discipline has also been identified as an important attitudinal factor in predicting parental responding because when a child is considered to be misbehaving, they are more likely to be blamed for disciplinary outcomes (e.g., Kelder, McNamara, Carlson, & Lynn, 1991; Rodriguez & Price, 2004). In fact, children who view their disciplinary treatment as deserved are more likely to justify their own abusive experiences (Rausch & Knutson, 1991) and are at increased risk for later abusive parenting (Rodriguez & Price, 2004). When attitudes regarding general disciplinary approaches are considered, belief in authoritarian control strategies (Susman, Trickett, Iannotti, Hollenbeck, Zahn-Waxler, 1985) and the value of corporal punishment (Crouch & Behl, 2001) have both been linked to increased child abuse potential.

Research suggests that the attitudes that are most likely to be linked with future behavior are the attitudes specific to that particular behavior (e.g., Kraus, 1995); hence, disciplinary attitudes have been a significant focus of the research on parental disciplinary responding. Several decades of research on disciplinary attitudes in the general population indicate high rates of acceptance and approval of violence in parenting contexts. In the first national violence survey, 70% to 77% of those surveyed indicated that slapping or spanking a 12-year-old child was at least somewhat normal, necessary, and good (Straus, Gelles, & Steinmetz, 1980). In a more recent survey of 450 parents making pediatric visits, approval rates for even the more violent forms of discipline were surprisingly high: 88% approved of spanking, 17% approved of shaking, and 6% approved of burning (Buntain-Rickels, Kemper, Bell, & Babonis, 1994). Research with college students suggests that the belief that physical violence constitutes appropriate discipline exists even prior to parenthood. In Graziano and Namaste’s (1990) survey of 700 college freshmen, 85% believed that parents had the right to spank and 83% indicated that they intended to spank their own children. Importantly, personal family experiences appear to play a significant role in the attitudes that individuals develop toward physical disciplinary strategies. Thus, those who have experienced a particular type of punishment (e.g., shaking, spanking, hitting with an object) view that form of discipline as less severe and more appropriate, are more likely to approve of it, and are less likely to label the discipline abusive (Bower & Knutson, 1996; Bower-Russa et al., 2001; Buntain-Rickels et al., 1994; Herzeberger & Tennen, 1985).

Much of the recent attitudinal research has focused on the exploration of a social-cognitive model, whereby transgenerational patterns of abuse may reflect a tendency for the experience of punitive punishment to influence the beliefs that those punished children develop regarding the appropriateness and effectiveness of various types of disciplinary strategies (e.g., Bower-Russa et al., 2001; Crouch & Behl, 2001; Deater-Deckard, Pettit, Lansford, Dodge, Bates, 2003). Thus, the tendency to be more accepting of physical discipline in general, and punitive disciplinary strategies specifically, may increase these children’s risk for abuse perpetration when they become parents.

The determinants of parental disciplinary behavior are surely very complex; however, disciplinary attitudes have long been hypothesized to play a significant role in accounting for the tendency for persons who experience abuse to be at increased risk to abuse their own children (e.g., Herzeberger, 1983; Kelder et al., 1991). Consistent with such a notion, belief in spanking correlates significantly with both practice (0.46) and severity (0.36) of spanking for parents of children under the age of 4 (Socolar & Stein, 1995). With regard to punitive discipline, Straus (1992) has reported that parents believing in the use of physical punishment hit their children more often, use extreme forms of punishment more often, and have an abuse rate that is four times higher than that of those who do not approve of physical punishment.

Whether such beliefs do, in fact, mediate transgenerational patterns of abuse is less clear, although several researchers have presented data that are consistent with this possibility. In the Bower-Russa et al. (2001) attempt to identify factors that could contribute to intergenerational patterns of abuse, college students’ attitudes regarding disciplinary practices were influenced by disciplinary history, and both history and attitudes were significant predictors of disciplinary responses in a parenting analogue task. These associations are not unique to college students or to analogue designs. Using a sample of parents in New Zealand, Rodriguez and Sutherland (1999) demonstrated that childhood history of discipline was associated with judgments of the severity of disciplinary techniques, and that parents’ history and severity judgments were associated with the frequency of use.
of such strategies with their own children. Taken together, these findings are consistent with the possibility that attitudes mediate transgenerational patterns of abuse; however, neither Bower-Russa et al. (2001) nor Rodriguez and Sutherland (1999) explored the role that disciplinary attitudes play as mediators per se.

Mediation (which is distinct from, but often confused with, moderation or with an indirect effect) addresses the mechanism by which the independent variable influences the dependent variable (see Baron & Kenny, 1986; Holmbeck, 1997). As such, increased understanding of patterns of mediation can have important implications for prevention and intervention programming (MacKinnon & Dwyer, 1993). The present study focused on exploration of whether, and to what extent, disciplinary attitudes mediate the association between disciplinary history and disciplinary responding.

A significant complicating factor in attempts to understand the role that attitudes play in the risk for initial abusive parenting is that once a parent uses punitive discipline, they may be inclined to modify their attitudes to justify their behaviors (Jackson et al., 1999); hence, the initial role that attitudes play may be obscured by the ongoing interplay between attitudes and behaviors. Given that student and other preparent populations show high degrees of concordance with parent populations in their attitudes regarding disciplinary acts (Bower & Knutson, 1996; Portwood, 1998) but have not yet had to function in a parenting role, such preparent groups offer an important opportunity for the investigation of the original patterns of association between disciplinary history, attitudes, and behaviors (e.g., Rodriguez & Price, 2004). The present study focused on use of such a preparent population to examine the impact of a mediator that could potentially be targeted in the increasing push for primary prevention efforts focused on preparent and new parent populations (e.g., Bavolek, 1989; Flynn, 1998; Margolin & Craft, 1990; Masten, Best, & Garmezy, 1990; Zoline & Jason, 1985).

METHOD

Participants

The participants in the study were 459 undergraduate students (i.e., future parents; Bogard, 1976) at a Midwestern university. Students were involved in this study as one of several options to meet a research participation requirement for their introductory psychology course. Because introductory psychology is a course that satisfies general education requirements, most students at the university enroll in the course. The data were collected during two consecutive semesters. The final sample was comprised primarily of participants between the ages of 18 and 20 (91%) who were in their 2nd or 3rd year of university studies (83%) and were unmarried (98%) with no children of their own (97%). Participants were almost exclusively Caucasian (92%), with small representations of those who identified themselves as Asian American (1%), African American (5%), Hispanic (.5%), or Other (1.5%). Most participants grew up in areas with a population of less than 100,000 (78%), with only 8% from large urban areas of more than 510,000. The majority of the sample identified their family economic group as middle (82%), although 9% identified their economic group as high, and 6% as low. Although the sample was broadly representative of the student population at the university with regard to other demographic variables, there was an overrepresentation of women in the sample (75%) when compared to the demographics at the university (60%).

Measures

Participants completed measures in each of the following areas: disciplinary history, disciplinary attitudes, parenting responses.

Disciplinary history. Disciplinary history was assessed using two measures: the Physical Punishment Scale of the Assessing Environments III Questionnaire (AE-III), and the Similarity Scale of the Perceptions Of Parenting (POPA).

The 130-item AE-III is a true-false questionnaire that has been used to obtain information regarding childhood histories of college students (e.g., Berger, Knutson, Mehm, & Perkins, 1988; Bower-Russa et al., 2001) as well as sexual offenders (Worling, 1995), psychiatric patients (Whitmore, Kramer & Knutson, 1993), patients with posttraumatic stress disorder (Zaidi & Foy, 1994), and incarcerated felons (Miller & Knutson, 1997). The questionnaire includes a variety of scales designed to assess characteristics of families that have been associated with abuse (Knutson & Mehm, 1988) as well as the experience of events assessed as abusive in the general literature (e.g., Gil, 1970; Sapp & Carter, 1978; Straus, 1980). The scales of the AE-III have demonstrated adequate test-retest reliability and interim consistency in prior research (Berger et al., 1988). The scale of interest in this study, the Physical Punishment Scale, asks about childhood experiences ranging from mild forms of physical pun-
ishment (e.g., spanking) to more punitive forms of physical discipline (e.g., striking with objects, choking). Events that were endorsed were summed to yield a Physical Punishment Scale score, which reflected severity of physical punishment history. In past research, scores on the Physical Punishment Scale have been found to distinguish between abused and nonabused adolescents (Berger et al., 1988) and to correlate significantly with aversive events recorded during direct home observations conducted approximately 10 years earlier (Prescott et al., 2000).

The POPA Similarity Scale questionnaire (Winebarger, Leve, Fagot & May, 1993) comprised a second measure of disciplinary history. The original POPA questionnaire asked respondents to evaluate the harshness, appropriateness, and effectiveness of 61 descriptions of parental behaviors ranging from praising a child, to calling a child stupid or hitting a child with objects. The Similarity Scale was added as part of the revised POPA questionnaire (Bower-Russa et al., 2001). This scale asks respondents to indicate how similar the described parent behavior is to their own childhood experiences. Average similarity scores were calculated based on responses to the nine items of the questionnaire that focused on physical forms of discipline ($\alpha = .818$). The original questionnaire and the modification of it have been used in past research focused on disciplinary attitudes and parenting (e.g., Bower-Russa et al., 2001; Winebarger et al., 1993).

Disciplinary attitudes. Disciplinary attitudes were assessed using two measures: ratings of disciplinary events from the original scales of the POPA questionnaire and the Abuse Opinion Survey-Revised. For the first measure, to create a composite attitudinal score using responses to the POPA questionnaire (described above), harshness and appropriateness scores (the latter reversed for scoring) were averaged across physical punishment items to create a disciplinary attitudes score (POPA Attitudes). On this composite scale ($\alpha = .885$), higher scores were indicative of ratings of parental physical discipline as more harsh and less appropriate.

A second measure of disciplinary attitudes, the Abuse Opinion Survey, has been used in prior research focusing on disciplinary attitudes (Bower & Knutson, 1996; Bower-Russa et al., 2001). This questionnaire includes descriptions of a broad range of parental behaviors and asks respondents to categorize them as no abuse or as a specific type of abuse (physical, emotional, sexual). In the revised version (Bower-Russa et al., 2001), used in the present study, the respondent is also asked how abusive (on a 0 to 7 Likert scale) they find each behavior. These abuse ratings for items involving physical discipline were averaged to yield overall scores in which higher scores reflected ratings of events as more abusive ($\alpha = .816$).

Parenting responses. Disciplinary responding was assessed using the analog parenting task. The analog parenting task has proven to be a useful measure in prior research focused on risk for abusive parenting and has repeatedly produced results that are consistent with existing theory regarding transgenerational patterns of abuse (e.g., Bower-Russa et al., 2001; Knutson & Bower, 1994; Zaidi, Knutson, & Mehm, 1989). Most recently, this measure has been used to examine risk for physical abuse among parents of children with disabilities (e.g., Knutson, Johnson, & Sullivan, 2004). In this task, participants view 28 slides depicting children engaging in a range of activities and select a disciplinary strategy that they would use to manage the child’s behavior. Child behaviors include a range of dangerous (e.g., sitting on a roof), destructive (e.g., tearing pages out of a book), socially inappropriate (e.g., drinking beer), and control (e.g., playing with tinker toys) acts. Respondents indicate what their initial reaction will be, how many times they would allow the child to persist in that behavior before they would change their response and, if they would change their response, what their next response would be. This measure yields two scores: a physical discipline score (reflecting the frequency with which physical disciplinary responses are selected either initially or if the child persists in the behavior) and an escalation score (reflecting the frequency with which the respondent changes from a nonphysical to physical disciplinary response if the child is described as persisting in the behavior after initial intervention attempts). Use of the analogue parenting task as a measure of risk for abuse is consistent with the fact that abusive parenting events most often occur in the context of a disciplinary exchange between parent and child (Gil, 1970; Herrenkohl, Herrenkohl, & Egolf, 1983), and escalation from acceptable to punitive responding in the face of child noncompliance appears to play a critical role in abuse perpetration (e.g., Azar & Wolfe, 1998; Bower & Knutson, 1996; Reid, 1985; Wahler, Williams & Cerezo, 1990; Wilson & Whipple, 1995).

Procedure. Groups of 8 to 12 participants attended a 2-hour data collection session in which they spent approximately 1 hour completing paper-and-pencil questionnaires (i.e., AE-III, Abuse Opinion Survey—R, POPA) and another hour responding to a slide presentation (analog parenting task). Questionnaires and slide portions were administered in counterbalanced order, but preliminary analyses indicated no
order effects, so results reflect data collapsed across counterbalanced conditions.

The study, which was approved by the Institutional Review Board, followed the procedure of Bower-Russa et al. (2001). Briefly, to encourage candid responding, participants were assigned idiosyncratic identification numbers on admission to the test session. After signing in and completing informed consent forms, participants were instructed to place this idiosyncratic number on each of their answer materials. Hence, these numbers allowed anonymity in responding while providing for identification and matching of response materials for later analyses. Respondents were repeatedly reminded not to put any personally identifying information on answer sheets, and as each questionnaire was completed, the participant placed it in a privacy envelope.

Overview of Analyses

Structural equation modeling (SEM; Arbuckle & Wothke, 1999) was used to assess the fit of a preliminary model in which attitudes fully mediated the relation between childhood disciplinary history and adult disciplinary responses. In examining relations among constructs of interest, SEM has several important advantages compared to other statistical approaches: It can increase the accuracy of the estimation of the correlation between constructs (Newcomb, 1990, p. 42), and it can be used to test the overall fit of a model to the data. Analyses followed procedures for testing for mediation as specified by Baron and Kenny (1986) and elaborated by Holmbeck (1997). These authors note that several steps are required to test for mediation: (a) The predictor must be associated with the dependent variable; (b) the predictor must be associated with the mediator; (c) the mediator must be associated with the dependent variable; and (d) the impact of the predictor on the dependent variable must be reduced by controlling for the mediator.

In testing the mediational model in the present study, the measurement model consisted of three latent variables of interest (i.e., disciplinary history, disciplinary attitudes, and parenting responses), each identified by two observed variables. Following standard procedure, for each of the latent variables, one observed-latent variable path was set to 1.0 to establish scaling. Missing data were handled using maximum likelihood estimation (Arbuckle, 1996). Table 1 presents simple product-moment correlations among the observed variables. Maximum likelihood estimation was used to estimate model parameters, which are presented in standardized form. Preliminary analyses indicated that the model fit the data adequately ($\chi^2(6) = 10.529, p = .104$), and each of the observed variables loaded significantly onto their respective latent variables. (Note that with SEM nonsignificant $p$ values indicate better fit).

RESULTS

Analyses

To test for mediation, there must be a statistically significant correlation between the proposed predictor and the dependent variable (see Holmbeck, 1997). As expected, analyses indicated a statistically significant correlation between childhood history and disciplinary responses ($r = .366, p < .05$) such that more punitive histories were associated with higher rates of potentially injurious parenting responses. Hence, it was appropriate to proceed with the testing of the proposed model in which attitudes served as a mediator of the relation between childhood history and disciplinary attitudes. In this fully mediated model (Figure 1), both the history to attitudes and attitudes to parenting response paths were statistically significant. However, the overall fit of this model to the data was not particularly good ($\chi^2(7) = 16.03, p = .025$; root mean square error of approximation (RMSEA) = .053; comparative fit index (CFI) = .998). To better fit the data, the initial, fully mediated model was revised to a partially mediated model with the addition of a direct path between punishment history and parenting responses (Figure 2). This added path yielded a statistically significant improvement in fit (change $\chi^2(1) = 5.51, p = .025$) and resulted in a revised model fit.

<table>
<thead>
<tr>
<th>Variable</th>
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<tr>
<td>1. Physical Punishment Scale</td>
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<td>2. Perceptions of Parenting Similarity Scale</td>
<td>.689**</td>
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<tr>
<td>3. Abuse Opinion Survey</td>
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<td>.314**</td>
<td>.348**</td>
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<tr>
<td>4. Perceptions of Parenting Attitudes</td>
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<td>-.463**</td>
<td>.628**</td>
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<td>5. Physical Discipline on Analog Parenting Task</td>
<td>.297**</td>
<td>.280**</td>
<td>-.286**</td>
<td>-.366**</td>
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<tr>
<td>6. Escalation on Analog Parenting Task</td>
<td>.289**</td>
<td>.235**</td>
<td>-.269**</td>
<td>-.327**</td>
<td>.867**</td>
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*p < .05. **p < .01.
model that provided a better overall fit for the data ($\chi^2(6) = 10.53, p = .104$; RMSEA = .041; CFI = .999).

The association between disciplinary history and parenting responses was significantly reduced with the addition of attitudes as a mediator, from an initial value of .366 in the fully mediated model, to a final value of .161 in the partially mediated model (see Figure 2). This reduction in the association between the predictor and the dependent variable when the mediator was added to the model satisfied the final step in
testing for mediation (see Holmbeck, 1997), clearly indicating that some of the association between disciplinary history and parenting responses flowed via attitudes. These data support a partially mediated model in which more than half ([.366-.161]/.366 = 56%) of the impact of punishment history on a punitive parenting style is accounted for by the mediation of disciplinary attitudes. An alternate, nonmediated model, in which punishment history was independently associated with disciplinary attitudes and disciplinary responses via two separate pathways was not supported (χ²(7) = 34.31, p = .000; RMSEA = .092; CFI = .995).

In the final, partially mediated model (Figure 2), the regression weight from disciplinary history to disciplinary attitudes was statistically significant and negative, indicating that the more physical punishment respondents had experienced, the less critical (i.e., more accepting) they were of potentially injurious physical disciplinary strategies. In fact, disciplinary history accounted for approximately 33% of the variance in attitudes. Disciplinary attitudes, in turn, were significantly negatively associated with parenting responses such that being less critical (more accepting) they were of potentially injurious physical disciplinary practices, indicating that the more physical punishment respondents’ ratings of the appropriateness, harshness, and abusiveness of specific disciplinary behaviors.

It should be noted that in examining disciplinary attitudes and responses, this research focused on a full range of physical disciplinary practices (e.g., spanking, hitting, striking with objects) that can be considered potentially injurious but that are not necessarily abusive per se. This approach to the study of risk for child abuse reflects a growing realization that family violence falls along a continuum of acceptability rather than following a clearly delineated dichotomy of abusive and nonabusive. (Simons, Whitbeck, Conger, & Chyi-In, 1991; Gracia, 1995; Graziano, 1994).

The present study provides preliminary support for the notion that disciplinary attitudes play an important role in intergenerational patterns of abuse. Using a methodological and statistical approach that allowed for correction of measurement error for each of the latent variables of interest (i.e., childhood history of abuse, disciplinary attitudes, and parenting responses), childhood history of punitive discipline was significantly related to increased acceptance of potentially injurious physical disciplinary strategies, accounting for more than a third of the variance in disciplinary attitudes. Thus, family history appears to play a critical role in shaping such disciplinary beliefs.

These findings are consistent with previous research in which children reared in abusive homes view physically violent disciplinary acts as more normal and acceptable than those who do not have such punitive histories (e.g., Bower-Russa et al., 2001; Herzeberger & Tennen, 1985; Kelder et al., 1991) and with findings that persons who were more approving or more accepting of physical disciplinary practices tend to, in turn, be more likely to use such potentially problematic physical disciplinary practices when faced with child misbehavior (Bower-Russa et al., 2001). Additionally, however, this study provides an indication that disciplinary attitudes may serve as a critical pathway by which a punitive disciplinary history influences disciplinary strategies used as an adult. With control for measurement error, more than 50% of the association between disciplinary history and parenting responses could be attributed to the mediational effects of attitudes. Hence, attitudinal...
sanctioning of violence as a result of victimization may be an important means by which victims are at increased risk for abuse perpetration.

These findings suggest that there may be value in a targeted, early-intervention approach as a means to reduce abuse perpetration. In fact, in recent years, early intervention with preparent (during the prenatal period) and first-time, new parents has increasingly been viewed as critical to prevention efforts (see Donnelly, 1997; U.S. Advisory Board on Child Abuse and Neglect, 1991). When limited financial resources require a focus on smaller, high risk populations, preparents with punitive childhood histories would appear to comprise an appropriate target group for intervention (Kaplan, Pelcovitz, & Labruna, 1999). The results of this study suggest that an important component of multifaceted intervention approach (e.g., Olds & Kitzman, 1993) might be the exploration and modification of maladaptive beliefs regarding what constitutes appropriate and effective discipline. Such prevention efforts might focus, for example, on education regarding child development and the limitations of physical disciplinary approaches. Education and support in the mastery of more appropriate and effective alternative disciplinary strategies is probably also critical for pervasive and enduring attitudinal change to occur (see Millar & Millar, 1996).

This model of the association between disciplinary history, attitudes, and parenting responses should be viewed as a starting point for evaluation, expansion, and elaboration via future research. This study relied on self-reports, and although reactivity effects were probably reduced by the emphasis on anonymity of responding, participants may have underreported socially undesirable attitudes or behaviors, leading to an underrepresentation of the magnitude of association between the constructs of interest. In addition, biases or inaccuracies in the assessment of disciplinary histories may have been introduced by the retrospective nature of the reporting. The fact that the data were collected in group sessions raises the possibility that participants may have been influenced by others in the session; however, these effects may have been reduced by the fact that participants were seated some distance apart and envelopes were used to protect the privacy of completed materials. Finally, because constructs of interest were assessed based on information from a single source, the association between the constructs may be somewhat inflated by method variance (Watson & Clark, 1984). Although SEM provides a useful statistical tool for exploring potential causal relations, this study was correlational and cross-sectional in design. Further testing of this model using prospective and experimental approaches and control comparisons is warranted.

Given the significant role that nonattitudinal factors likely play in mediating risk for punitive parenting, elaboration of this model to isolate, validate, and quantify the impact of such mediating factors would also be theoretically and practically beneficial. Mediators that might be added to the model abound in the theoretical literature (see Gershoff, 2002, for a recent review) and have included abusive parents’ failure to model constructive conflict resolution strategies (e.g., Trickett & Kuczynski, 1986), problematic social information processing patterns (e.g., Dodge, Bates, & Pettit, 1990), self control deficits (Reid, Taplin, & Lorber, 1981), and social learning of aggressive antisocial behavior (e.g., Herzeberger, 1996). The fact that the final model accounted for only 20% of the variance in parenting responses is consistent with the fact that a punitive childhood disciplinary history appears to contribute to abuse perpetration for only a small percentage of abusers. Factors unrelated to disciplinary history, such as child temperament, parent personality and cognitive style, and characteristics of both the family system and the larger social context (see Belsky, 1993, for a review) must also be considered to fully understand parental disciplinary responding.

One potential limitation of the present study was its analogue design. A primary concern regarding analogue studies is that they may have limited generalizability outside the laboratory. In the present study, disciplinary responding was assessed by having participants view slides and indicate their reaction to the depicted child’s behavior. This approach does not capture the truly dynamic and interactive nature of disciplinary exchanges, and although the slides are engaging enough to evoke a range of disciplinary responses, the stimuli may not evoke the same range of emotions that characterize more naturalistic disciplinary contexts. Hence, the study approximates but does not fully represent the kind of data that might be obtained via more naturalistic observation (see DeGarmo, Reid, & Knutson, in press).

In spite of their limitations, analogue approaches have proven useful for decades as a means of advancing psychological theory (e.g., the effects of self-disclosure in counseling, the nature of fears and phobias, the effects of behavior modification) and providing for initial hypothesis testing under conditions that allow for more rigorous methodological control than might be available in clinical and community samples (Borkovec & Rachman, 1979; Kazdin & Rogers, 1978; Mook, 1983; Stone, 1984; Stopa & Clark, 2001; Thase & Page, 1977). In fact, defenders of analogue research
have argued that virtually all research should be considered analogue in the sense that it provides an imperfect representation of the broader situation to which the researcher is trying to generalize (Kazdin, 1978; Kazdin & Rogers, 1978).

The use of an analogue design in the present study allowed for very high participation and completion rates (0% drop out) and a large final sample size (n = 459). Furthermore, because participants were able to participate in the present study completely anonymously under purely nonthreatening conditions (e.g., no observer, no risk of detection of abuse and related consequences), reactivity was presumably reduced to yield more candid responding. Given that researchers have limited ability to observe parental discipline and the types of events that occasion discipline and abuse, analogue research is likely to continue to play a useful role in abuse research, providing the means and methodological rigor to support the development and initial testing of theories that may then be cross validated using more naturalistic designs.

The sample used in the present study consisted primarily of unmarried, Caucasian individuals between the ages of 18 and 20. This sample did not include a significant representation of minorities, persons from large, urban areas, or members of the lowest socioeconomic strata. Furthermore, although participants were primarily first generation college students and were only in their first or second semester of university studies, they were likely somewhat more educated than preparents in the general population. To the extent that more severely abused individuals may be less likely to pursue higher education, such individuals were probably underrepresented in the sample. It should be noted that the punishment histories of this sample were not benign, however. Using the threshold established in previous research (Berger et al., 1988), 12% of the respondents in this sample had histories of severely punitive punishment. Although further research is warranted to determine to what extent this model generalizes to less-educated preparents from other ethnic backgrounds and lower socioeconomic strata, this sample was representative of a very large, preparent population of students at regional, Midwestern universities. Given that parents who are adolescents or young adults are at increased risk to perpetrate abuse (Wekerle & Wolfe, 1993) and have been a focus of primary prevention in the past (e.g., Lewko, Carriere, Whissell, & Radford, 1986; Wolfe et al., 1997), this captive audience may be an important target for future prevention efforts.

REFERENCES


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