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Corporal punishment and long-term behavior problems:
The moderating role of positive parenting and psychological aggression

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The aims of this study were: (a) to examine the prevalence of corporal punishment (CP) of children in Spain; (b) to analyze the extent to which CP is used in combination with psychological aggression and positive parenting among Spanish parents; and (c) to investigate whether the relation between CP and behavior problems is moderated by a positive parenting context in which CP may be used, and by the co-occurrence of psychological aggression. The sample comprised 1,071 Spanish university students (74.8% female; 25.2% male). Findings indicate a high prevalence of CP of Spanish students, revealing that significantly more mothers than fathers used CP. Furthermore, more CP is related to more use of psychological aggression and less of positive parenting. Regression analyses revealed that CP was associated with an increased probability of antisocial traits and behaviors regardless of whether there was positive parenting and psychological aggression. These results highlight that, though many Spanish parents use CP as a disciplinary strategy, it appears to be related to negative outcomes for children regardless the parental context in which it is used.

Corporal punishment (CP) is probably the most controversial issue in the literature on parental discipline. CP is defined as the use of physical force with the intention of causing a child to experience pain, but not injury, for purposes of correction or control of the child’s behavior (Straus, 2001). Examples of CP include spanking, slapping, smacking, or grabbing a child. As compared to physical abuse, by definition, CP does not produce physical injury. Nevertheless, in the last decades a number of studies have found many negative consequences (Gershoff, 2002a; Gurnee & Mariner, 1997; Holden, 2002; Straus, 2001; Straus, 2008; Turner & Muller, 2004).

Although there are a number of studies on physical abuse on children with Spanish samples (e.g., Gómez & DePaul, 2003; Saldaña, Jiménez, & Oliva, 1995), little empirical research has been carried out examining prevalence and consequences of normative CP in Spain. CP of children is a widely accepted discipline strategy in Spain. A survey carried out by the Center for Sociological Research using a national probability sample of adults found that 60% of the Spanish population agree with “Spanking or slapping a child in time to avoid greater problems later” (CIS, 2005). Less than one out three (29.3%) think that spanking should never should be used with children. Moreover, another nationally representative survey of Spanish adults (CIS, 2004) found that 49.1% reported being spanked and 27.9%, being slapped as a child «often» or «sometimes», which suggest that for many parents CP is a habitual and normative way to correct children, although the study did not distinguish between who were punished «rarely» and «never». The Spanish data are consistent with studies in North America and other countries showing that CP is also a generally accepted and frequent discipline strategy (Straus, 2001; Straus, in press; Straus & Stewart, 1999).

A problem raised by these high prevalence rates is that a number of studies have found that CP is related to antisocial and
criminal tendencies (Gámez-Guadix & Straus, 2008; Grogan-Kaylor, 2004; Gunnoe & Mariner, 1997; Straus, 2001). A meta-analysis of 88 studies examined the link between CP and multiple negative outcomes (Gershoff, 2002a). It included 40 tests of the hypothesis that CP is associated with an increased probability of aggressive and delinquent behaviour by children. Thirty nine of the tests found this relationship. Similarly, eight of the nine tests of adult aggression and criminal behavior found the hypothesized link to physical punishment. It has been hypothesized that although CP produces compliance in the short term, in the long term it may increase the probability of deviance, including antisocial tendencies. In addition, CP has been associated with a number of negative mental health outcomes, such as depression, anxiety, suicide, or alcohol abuse (Gershoff, 2002a; McLoyd, Jayaratne, Ceballo, & Borquez, 1994; Straus, 2001; Turner & Muller, 2004).

Some researchers, however, dispute the validity of this evidence and have recommended conditional use of physical punishment under certain conditions (Larzelere, 2000), for example, as a back-up when used in a non abusive customary way. They dispute the validity of the studies showing harmful side-effects on a number of grounds. For example, they argue that the studies have often confounded mild CP with more severe types of harsh punishment and that this explains the harmful side-effects (Larzelere, 1996, 2000; Ripoll-Núñez & Rohner, 2006). Another criticism is that the research has failed to take into account contextual factors, such as a positive parenting context (Benjet & Kazdin, 2003; Gershoff, 2002a; Ripoll-Núñez & Rohner, 2006). The critics believe that when CP is used by loving and caring parents in a positive context it is harmless. However, studies examining the potential moderation effects of parental warmth and support on CP outcomes have been scarce and inconsistent (Harper, Brown, Arias, & Brody, 2006; Simons, Lin, & Gordon, 1998; Straus & Moudran, 1998).

It has also been suggested that what seems to be an harmful effect of CP may be spurious because of confounding with psychological aggression. In research on family violence, terms such as emotional abuse, psychological abuse, or verbal/symbolic aggression have often been used as synonyms for psychological aggression (Almendros, Gámez-Guadix, Carrobles, Rodríguez-Carballeira, & Porrúa, 2009). As conceptualized here, psychological aggression refers to a communication intended to cause psychological pain to another person, or a communication perceived as having that intent. The communicative act may be active or passive, and verbal or nonverbal (Vissing, Straus, Gelles, & Harrop, 1991). Research on CP and psychological aggression indicates that they tend to co-occur (Bartkowski & Wilcox, 2000; Wissow, 2001) and that the psychological and verbal aggression may be the underlying variable that accounts for the relationship of CP to externalizing behavior problems and poorer mental health (Vissing et al., 1991). However, because there is little empirical research on the extent to which the effects of CP may be due the co-occurrence of psychological aggression, it is difficult to conclude that the consequences associated with CP are because psychological aggression habitually covaries with physical discipline (Holden, 2002; Parke, 2002).

The present study

The aims of this study were (a) to provide data on the prevalence of CP of a sample of children in Spain; (b) to examine the extent to which CP is used in combination with psychological aggression and positive parenting among Spanish parents; and (c) to investigate if the relation between CP and behavior problems is moderated by a positive parenting context in which CP may be used and by the co-occurrence of psychological aggression. Based on previous research that has shown that CP is associated with negative outcomes later in life (Gershoff, 2002a), we hypothesized that the experience of CP as a child is significantly related to a higher rate of antisocial tendencies and depressive symptoms as an adult regardless whether CP occurs within a positive parenting context and regardless whether psychological aggression is also present.

Method

Participants

The participants in this study were a university student sample from the Community of Madrid, which was gathered as part of International Parenting Study (http://pubpages.unh.edu/~mas2/IPS.htm), a research project conducted by a consortium of researchers in over 20 countries all over the world. The initial sample was composed of 1,343 participants. Because of the purposes of the study, only students living with two parents or step parents at age of ten were included in the study (N= 1,270; 94.6%). To avoid confusing CP with physical abuse, we excluded students who had reported any example of physical abuse (N= 199; 15.7%), using five items from the CTSPC (Straus, Hamby, Finkelhor, Moore, & Runyan, 1998). The final sample used in this analysis was composed of 1,071 university students (74.8% female; 25.2% male) with a mean age of 21.20 (SD= 4.29). Thirty-eight percent of participants were students of Psychology, 17.8% of Law, 15.5% of Education, 10.5% of Economy, 10% of Science, and 7.9% of Art and Humanities. The purpose of the study and the right to refuse to participate were explained to all students. They were assured of anonymity and confidentiality, and given a debriefing form that explained the study in more detail after participants had completed all of the measures. The students were also provided contact information for area agencies should they need assistance with mental health or violence problems. All procedures were reviewed and approved by the University Ethics Board.

Measures

Dimensions of Discipline Inventory (DDI). The Corporal Punishment and Psychological Aggression scales of the Adult-Recall form of the DDI (Straus & Faucher, 2007) were used in this study. The students were asked to answer the DDI questions for the year they were ten years old. Each question was repeated using the CTSPC (Straus, Hamby, Finkelhor, Moore, & Runyan, 1998). The final sample used in this analysis was composed of 1,071 university students (74.8% female; 25.2% male) with a mean age of 21.20 (SD= 4.29). Thirty-eight percent of participants were students of Psychology, 17.8% of Law, 15.5% of Education, 10.5% of Economy, 10% of Science, and 7.9% of Art and Humanities. The purpose of the study and the right to refuse to participate were explained to all students. They were assured of anonymity and confidentiality, and given a debriefing form that explained the study in more detail after participants had completed all of the measures. The students were also provided contact information for area agencies should they need assistance with mental health or violence problems. All procedures were reviewed and approved by the University Ethics Board.

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consider physical abuse. The question «How often did you wash this child’s mouth out with soap, put hot sauce on their tongue, or something similar?» was not used because it was not culturally appropriate in the Spanish context.

The questions used to measure psychological aggression were: «How often did you shout or yell at this child?», «How often did you try to make this child feel ashamed or guilty?», «How often did you hold back affection by acting cold or not giving hugs or kisses?», and «When this child behaved badly, how often did you tell the child that they are lazy, sloppy, thoughtless, or some other name like that?».

Positive Parenting Scale. The adult-recall form of the DDI was examined to identify parent behaviors that could be considered indicators of positive parenting. The following four behaviors were selected: «Did or said things to show that they loved and supported you», «Explained why they did what they did to correct you», «Felt encouraged and supported», and «Checked on you so that they could tell you that you were doing a good job». Because each is asked for father and for mother, there are a total of eight items. A factor analysis of a sample of 1,313 University of New Hampshire students specifying a single factor showed that this factor explained 48.4% of the variance, and that all items had factor loadings above .4. The scale was created by transforming the eight items to z scores, summing the z scored items, and transforming the sum to a z score. In the current study, Cronbach’s α was .78.

Short form of Antisocial traits and behavior (ATB) Scale. This scale is derived from the DSM-IV (American Psychiatric Association, 1994). Because the DSM-IV definition of Antisocial Personality Disorder includes criminal behavior, both before and after age 15, the scale combines five items of the Antisocial Personality Traits Scale and three items of the Criminal History Scale of the Personal and Relationship Profile (Straus, Hamby, Boney-McCoy, & Sugarman, 1997). Although the questions were derived from the DSM-IV definition of antisocial personality, this scale was not intended to be a diagnostic tool. Examples of the nine Antisocial Personality Traits and Behavior items are «I don’t think about how what I do will affect other people» and «Since age 15, I have physically attacked someone with the idea of seriously hurting them». The eight items comprising both subscales were summed and divided by the number of items to obtain a mean ATB score. For this study, the internal consistency (Chronbach’s α) was .68.

Major Depression Inventory, MDI (Olsen, Jensen, Noerholm, Martiny, & Bech, 2003). This instrument contains 12 items that cover the ICD-10 symptoms of depression. The items ask the participant to rate how much time in the past two weeks each of the symptoms was present using a Likert-type response categories ranging from 0 (At no time) to 5 (All of the time). Examples of items include «Have you felt low in spirits or sad?» and «Have you lost interest in your daily activities?». This scale has demonstrated good construct validity and internal consistency reliability (Cuijpers, Dekker, Noteboom, Smits, & Peen, 2007; Olsen et al., 2003). For this study, the overall alpha coefficient of internal consistency reliability was .87.

Limited Disclosure Scale. The tendency of some participants to minimize disclosure of socially undesirable behavior was controlled using a reduced version of the Limited Disclosure Scale of the PRP. This is a 6-item scale based on Reynolds short-form Social Desirability subscale (Reynolds, 1982). It includes behaviors and emotions that are slightly undesirable but true of most people, such as «I sometimes try to get even rather than forgive and forget». Participants indicated on a four-point scale from 1 (Strongly Disagree) to 4 (Strongly Agree) the extent to which they agreed with each item. For this study, the internal consistency reliability of this scale was α = .56.

Data analyses

First, descriptive statistics and zero-order correlations were calculated for all variables in the study. Second, percentages and Chi-square test were calculated to analyze the prevalence for parent behavior and the differences as a function of sex of the participant and sex of the parent. Finally, multiple regression analyses were performed to test the hypothesis regarding the relationship of CP, psychological aggression and dependent variables (ATB and depressive symptoms).

Results

Prevalence for parent behavior

Corporal punishment. Sixty-three percent of males and 63.8% of females ($X^2_{10}=.05; p=.82$) were physically punished at age ten. In this study somewhat more mothers than fathers used CP (42.9% of fathers and 50.1% of mothers) ($X^2_{1} = 8.05; p<.05$), whereas in the Fauchier and Straus North American International Parenting Study there was very little difference (23% of fathers and 27% of mothers spanked, slapped, smacked, or swatted their children). In respect to shaking and grabbing a child, the percentages were 34.5% of fathers and 39% of mothers among Spanish parents ($X^2_{1} = 2.92; ns$) compared to 24% and 25% of U.S. fathers and mothers. More mothers (56.5%) than fathers (50%) used any kind of CP ($X^2_{1} = 6.08; p<.05$). Eighty-three percent of mothers and 78.8% of fathers who shook or grabbed their children also spanked, slapped, smacked or swatted them. This indicates that these behaviors of CP tend to co-occur.

Psychological aggression. Eighty-six percent of males and 86.9% of females reported any kind of psychological aggression ($X^2_{10} = .14; ns$). Eighty-seven percent of mothers and 81.1% of fathers shouted or yelled the child ($X^2_{1} = 12.2; p<.001$), 47.2% of mothers and 45.1% of fathers tried to make the child feel ashamed or guilty ($X^2_{1} = 92; ns$), 27.7% of mothers and 28.2% of fathers hold back affection to the child ($X^2_{1} = 0.64; ns$), and 61.6% of mothers and 59% of fathers told the child that they are lazy, sloppy, thoughtless, or some other name like that ($X^2_{1} = 1.52; ns$). More than ninety percent of mothers (91.7%) and 89.3% of fathers used any kind of psychological aggression ($X^2_{1} = 3.39; ns$).

Positive parenting. The total positive parenting score was higher for females than for males ($t = -2.12; p<.05$). More than eighty percent of mothers and fathers (88.5% and 83.5%, respectively) did not say that they loved and supported the child ($X^2_{1} = 10.8; p<.01$), 84.8% of mothers and 78.9% of fathers explained why they did what they did to correct the child ($X^2_{1} = 12.1; p<.01$), 85.3% of mothers and 82.7% of fathers tried to encourage and support the child ($X^2_{1} = 2.59; ns$), and 74.6% of mothers and 70.1% of fathers checked on the child so that they could tell you that you were doing a good job ($X^2_{1} = 5.15; p<.05$).
**Prevalence for child behavior**

**Antisocial and criminal behavior (ATB).** The mean of ATB was higher for males (M=13.83; SD=3.66) than for females (M=11.30; SD=2.63) (t = 11.78; p<.001). The percentage of participants who do not agree or strongly agree with any items of ATB was 54.8%. More than one out of three participants (36.1%) agree or strongly agree with one or two items, 7.7% with three or four items, and 1.4% with 5 or more items.

**Depressive Symptoms.** The total score for depressive symptoms was not different between males (M=13.02; SD=9.12) and females (M=12.88; SD=8.59) (t=.21; ns). Thirty percent of participants reported one or two symptoms in the last two weeks more than half of the time, 10.7% reported three or four symptoms, 5.3% reported five or six symptoms, and 5.7% reported more than seven symptoms.

**Correlation analysis**

The first column of Table 1 shows that the strongest correlation was between CP and psychological aggression (r=.54; p<.001), indicating that the more CP the more psychological aggression. Indeed, 86.2% of parents who use CP also used psychological aggression. Alternatively, 69.6% of parents who use psychological aggression also used CP. The second correlation in the first column of Table 1 shows that the correlation of .16 (p<.001) between CP and positive parenting indicates that the more CP used, the less the degree of positive parenting. Psychological aggression and positive parenting...
Corporal punishment were also related ($r = -0.28; p<0.001$), indicating that the more psychological aggression the less positive parenting.

Multiple Regression Analysis

To overcome the overlap between psychological aggression and CP in order to analyze the distinctive contribution of each, the items from both scales were factor analyzed using the Anderson-Rubin method and Varimax rotation. The Anderson-Rubin method produces factor scores that are uncorrelated and standardized (Field, 2005). Prior to factor analysis, examination of sampling adequacy indices indicated that the data contained sufficient shared variance for factor analysis: $KMO= .70; \text{Bartlett’s Test of Sphericity}= 7,326.11, p<.001$. One item («Shout or yell the child») was not loaded in the psychological aggression factor and was excluded in further analysis. The factor analyses yielded a two factor solution (Corporal punishment and Psychological aggression) with all items having factor loadings above .5. Psychological aggression factor accounted for 41.69% of total item variance and Corporal punishment factor accounted for 16.19% of total item variance. Factor scores for each factor were added to the data for each study participant. Regression analyses were carried out using as independent variables the factor scores of CP and psychological aggression. Sex, age, limited disclosure, and educative level were introduced in the step 1 as control variables. In steps 2, 3, and 4, CP, psychological aggression, and positive parenting were introduced one by step at a time in order to analyze the change when introduced. Finally, interactions terms were introduced in the last step.

Antisocial Traits And Behavior (ATB). The first set of regression analyses tested the relation of CP, psychological aggression, and positive parenting to ATB (see Table 2). In step 1, ATB was regressed on the control variables. The results indicate that sex and limited disclosure were significantly related to ATB. In step 2, CP was added to the regression equation. As expected, CP was significantly related to higher ATB scores while controlling

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<td>Corporal punishment (CP)</td>
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<td>CP x Positive Parenting</td>
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$R^2$ | .06 | .06 | .10 | .11 | .11 |
$\Delta F$ | 15.40*** | 1.12 | 34.16*** | 10.98** | 1.21 |

Note: †$p<.10; * p<.05; **p<.01; ***p<.001$
for demographic variables and limited disclosure. Step 3 shows
that psychological aggression was also a significant predictor of
ATB. In step 4 positive parenting was added to the equation. After
controlling the effect of the others factors, positive parenting was
only marginally related to the outcome. CP was still a significant
predictor of ATB regardless of the degree of psychological
aggression and positive parenting. Finally, the interaction terms
of CP with sex, psychological aggression and positive parenting
were added simultaneously to the equation in Step 5. None of
these interactions were significant, indicating that the relationship
of CP to ATB applies to both men and women, and to students
whose parents were low in psychological aggression as well as
those whose parents were high in psychological aggression, as
shown in Figures 1 and 2. Figures were created by plotting high
and low values of predictor and moderator variables (1 SD above
and 1 SD below the mean of standardized variables) based on the
recommendations by Holmbeck (1997) to examine the nature of
interaction effects. Using the codification for frequency at age of
ten proposed in the manual of the DDI (Straus and Fauchier, 2007,
p. 31), 1 SD below the mean of CP (Low CP in Figures 1 and 2)
corresponds to no examples of CP at age of ten and 1 SD above
the mean (High CP) is, approximately, 24 examples of CP at age
of ten.

Depressive Symptoms. A second model was estimated for the
relation of CP, psychological aggression, and positive parenting
to depressive symptoms (Table 3). Following the same steps as
for ATB, the control variables were entered in the equation in
Step 1. Limited disclosure and education level were significantly
associated with depressive symptoms. In step 2, CP was added to
the equation. Results indicate that CP was not a significant predictor
of depression after controlling for the demographic variables and
limited disclosure. Psychological aggression and positive parenting
were added to the equation in step 3 and step 4, respectively. As
expected, both were a significant predictor of depression. In Step 5
interaction terms of CP with gender, psychological aggression and
positive parenting are added to the equation. None were statistically
significant, indicating that the relation of psychological aggression
to depressive symptoms applies regardless of gender and positive
parenting.

Discussion

We studied a Spanish sample of university students and,
consistent with studies with American samples (Straus, 1999;
Straus & Stewart, 1999), found high rates of CP by parents.
Specifically, more than 60% of the male and the female students
were physically hit at age of ten. The prevalence rates found
in the present study are higher than those found using the same
methodology and criteria for North American students in the
International Parenting Study (Fauchier & Straus, 2007). Futures
studies should attempt to better understand the social and cultural
variables that may explain the much higher percent of Spanish
parents who use CP and the greater difference between Spanish
fathers and mothers.

Findings indicated that CP and psychological aggression tend
to go together. Almost 9 out 10 of parents who used CP also used
psychological aggression, which is consistent with previous studies
(Bartkowski & Wilcox, 2000; Wissow, 2001). Higher levels of both
CP and psychological aggression are also related to lower levels
of positive parenting practices (i.e., parental support, warmth, and
use of reasoning as a disciplinary practice). Other studies have
also reported this relationship between power-assertive tactics and
positive parenting (Wissow, 2001). Overall, these findings indicate
that there is a group of parents who tend to rely on aggressive
discipline. Parents who use aggressive power-assertion tactics, use
a lower proportion of positive parenting strategies. It is important
to acknowledge these associations because they suggest that
encouraging mothers and fathers to not use CP could also reduce
use of other aggressive strategies and promote more positive
parenting strategies.

CP was found to be linked to an increased probability of
ATB regardless of whether there was positive parenting. This
is an important result because it provides empirical evidence
contradicting the claim that CP has no negative consequences
when is used by loving and supportive parents (Larzelere, 2000;
Ripoll-Núñez & Rohner, 2006). Also, we did not find a significant
interaction of CP with psychological aggression. The importance
of this result is that it contradicts the belief that the link between
CP and child behavior problems occurs because psychological
aggression often accompanies CP. These results suggest that CP
per se is a risk factor for developing an antisocial orientation, as
has been found in two longitudinal studies (Gunnoc & Mariner,
1997; Straus, Sugarman, & Giles-Sims, 1997) and with the results
of a meta-analysis of research on CP (Gershoff, 2002a) which
found a large and unusually consistent body of research showing
that CP tends to be an important risk factor for deviant behavior.

Several mechanisms, such as less child internalization of
parents’ values and low self-control, may explain the relationship
between CP and an antisocial orientation (Gottfredson & Hirschi,
1994). Overall, the results are congruent with the idea that although
CP might produce conformity in the immediate situation, in the
long term it may increase the probability of deviance, including
antisocial tendencies (Straus et al., 1997; Straus, 1991, 2001).

This study found the hypothesized relation between CP and
depression at the bivariate level, but not when the other variables
in the study were controlled. It is possible that the type of sample
(i.e., highly educated university students) attenuate the association
between these variables. Future studies should attempt to further
specify the conditions in which CP and depressive symptomatology
are related in the Spanish cultural context.

Limitations

First, this study focused on the preadolescent period because
it was more likely than younger ages to evoke adequate recall
(Fauchier & Straus, 2008). However, the effects of CP may differ
on children at different ages (Gershoff, 2002a). Thus, the impact
of CP during preadolescence may be different from impact of CP at
earlier periods and, therefore, results about the consequences of CP
at preadolescence cannot be generalized to other developmental
periods. In addition, regardless of age-specificity issues, the study
relies on retrospective self-report, which may have produced
memory biases.

A second limitation is that the cross-sectional design does
not permit establishing the causal direction. This is particularly
important in the case of CP because that is something parents
typically do to correct misbehavior (Gámez-Guadix & Straus, 2008).
Thus, corporal punishment, rather than being a cause of later
antisocial orientation, may be a consequence of child behavior
problem behavior, which carries over into adulthood. However,
there are at least seven longitudinal studies which show that although misbehavior does cause CP and does result in cessation of the misbehavior at the time, in the longer run use of CP boomrangs in the sense of increasing the probability of subsequent antisocial behavior (Straus, 2001).

Conclusions

The present study is one of the first to document the prevalence of CP by both mothers and fathers and for males and females in Spain. The results show that a considerable percentage of male and female students in this research reported having been physically hit in the preadolescence, and very high rates of psychological aggression as a means of correcting child misbehavior. In addition, although both opponents and defenders of CP agree that severe physical discipline is harmful, the results of this study, along with other empirical research, show that mild and moderate CP is also related to child behavior problems. Taken together, these results indicate that a large percentage of Spanish parents use aggressive modes of discipline that we and others have found to be related to behavior problems as young adults.

This study extends the existing literature by taking into account two important aspect of the context in which CP is used in an unstudied population. The findings suggest that Spanish parents be encouraged to avoid CP as well as psychologically aggressive discipline methods and to use alternative forms of correction of child misbehavior. As Gershoff (2002b) and others have argued, parent education programs that emphasize alternative disciplinary tactics to CP and psychological aggression may make an important contribution to the well-being of Spanish children.

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