Bridging the Divide: Openness in Adoption and Postadoption Psychosocial Adjustment Among Birth and Adoptive Parents

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Using 323 matched parties of birth mothers and adoptive parents, this study examined the association between the degree of adoption openness (e.g., contact and knowledge between parties) and birth and adoptive parents’ postadoption adjustment shortly after the adoption placement (6 to 9 months). Data from birth fathers (N = 112), an understudied sample, were also explored. Openness was assessed by multiple informants. Results indicated that openness was significantly related to satisfaction with adoption process among adoptive parents and birth mothers. Increased openness was positively associated with birth mothers’ postplacement adjustment, as indexed by birth mothers’ self-reports and the interviewers’ impression of birth mothers’ adjustment. Birth fathers’ report of openness was associated with their greater satisfaction with the adoption process and better postadoption adjustment.

Keywords: openness, adoption, adjustment, birth parent, adoptive parent

For much of the 20th century, societal expectations of parenting consisted of rearing one’s own biological child. Advanced fertility donor methods to assist in reproductive success were yet to be developed, and adoptions were generally closed or confidential in nature and characterized by secrecy. These more secretive and closed adoption practices were developed to protect all three parties of the adoption triad—birth parents, adoptive parents, and the child (Bussiere, 1998; Silverstein & Demick, 1994). Confidential adoptions were thought to ensure birth parents’ rights of privacy, shielding unwed mothers from the stigma of “illegitimacy.” These practices also were believed to protect adopted children from social ridicule and to shelter adoptive parents from the humiliation of their infertility (Bussiere, 1998). Since the 1970s, however, there has been a gradual shift in societal practices and views around parenting, with fertility donor methods being developed and open adoptions becoming the norm (Grotevant, McRoy, Elde, & Fravel, 1994). In contrast to closed adoption, open adoption is characterized by contact and communication between birth and adoptive parents (Grotevant & McRoy, 1998). As stigma surrounding nonmarital births diminished and unwed parenthood became increasingly accepted, it is now quite common for birth and adoptive families to have some degree of postplacement contact with one another. The degree of openness, however, varies widely, ranging from the exchange of a few photos mediated through an...
adoption agency to frequent visits and information exchanges (Grotevant & McRoy, 1998).

The implications of varying degrees of openness in adoption for the postplacement adjustment of birth and adoptive parents remain a subject of much debate (Miall & March, 2005b). Opponents of open adoption maintain that continued contact between the adopted child and birth parents impedes the attachment and bonding between adoptive parents and their adopted child. According to their view, adoptive parents in open adoption feel less in control and less secure in their parental role with a lingering presence of the birth parents (Kraft, Palombo, Woods, Mitchell, & Schmidt, 1985). Open adoption also was assumed to interfere with the grieving process that is essential for the mental health of the birth mother by not allowing her to experience a finality of the separation and a full mourning experience to eventually gain perspective (Kraft et al., 1985).

Proponents of open adoption see things quite differently. They suggest that adoptive parents in open adoption benefit significantly from information about birth parents through ongoing contact with them. Openness in adoption also allows adoptive parents to gain knowledge about their child’s medical and mental health histories, ethnic and cultural backgrounds, and reasons for adoption (Campbell, Silverman, & Patti, 1991; Siegel, 2003). Open adoption, in this view, makes adoptive parents feel more, rather than less, secure in their parental role because adoptive parents feel that birth parents have given them explicit consent to parent the child (Siegel, 2003). Open adoption is also believed to help mitigate birth mothers’ feelings of pain and loss, resulting in less destructive behavior and greater emotional well-being (Baran, Pannor, & Sorosky, 1976; Groth, Bonnardel, Davis, Martin, & Voudsen, 1987). Moreover, birth mothers who are involved in open adoption are more likely to feel assured of the child’s welfare because the direct contact they have with the adoptive parents typically fosters trust that their child is in a safe and caring home (Pannor & Baran, 1984). In contrast, closed adoptions are viewed as confining; birth mothers often feel isolated, have unresolved feelings of guilt and self-blame, and feel uncertain of the well-being of the child (DeSimone, 1996; Logan, 1996; Silverman, Campbell, Patti, & Style, 1988; Silverstein & Demick, 1994). Thus, greater certainty of the child’s well-being not only may alleviate the birth mother’s grief but also may contribute to her sense of pride regarding the decision (Lancette & McClure, 1992).

Open adoption also can be viewed as a form of what Granovetter (1973) called “weak ties,” whereby adoptive and birth parents are connected through special interpersonal relationships that arise out of special circumstances of adoption. Establishing supportive relationships outside of birth parents’ immediate social networks in the form of continued exchanges and contact may be especially important for their postplacement adjustment. Birth parents, particularly birth mothers, are often socially isolated after placement (DeSimone, 1996; Logan, 1996; Silverman et al., 1988; Silverstein & Demick, 1994). Although some limited evidence suggests that birth fathers found adoptions processes challenging (e.g., Baumann, 1999; Clapton, 2002; Deykin, Patti, & Ryan, 1988; Reitz & Watson, 1992), birth fathers also may benefit from having “weak ties” to the adoptive families. Such weak ties may provide birth parents with assurance and certainty about their adopted child. Open adoption, therefore, forges a new form of relationship in which birth and adoptive parents have a “shared fate” to the benefit of the parties involved (Kirk, 1964).

The Existing Empirical Evidence

Although researchers have begun to examine empirically the benefits and consequences of open adoption (e.g., Berry, 1993; Berry, Dylla, Barth, & Needell, 1998; Grotevant et al., 1994; Von Korff, Grotevant, & McRoy, 2006), data remain scarce and the existing research has often yielded inconsistent results. For example, Blanton and Deschner (1990) reported that birth mothers using open adoption felt more socially isolated, had more somatic complaints, felt more despair, and expressed more dependency than birth mothers involved in confidential adoption. In contrast, more recent work has suggested that open adoption may reduce stress for all involved parties (Grotevant & McRoy, 1998), particularly birth mothers (DeSimone, 1996; Logan, 1996; Silverstein & Demick, 1994). In Siegel’s (2003) study of adoptive parents who were interviewed 7 years after the initial placement of the adopted child, although adoptive parents were more likely to report that the adopted child was better off with ongoing contact with the birth parents, some adoptive parents felt more pressure as a parent in an open adoption than they suspected they would in a closed adoption. Most of the empirical work, particularly those supporting the position of closed adoption, has used small samples or has been more qualitative in nature. Although more recent work has begun to document the benefits of contacts between adoptive and birth families (Berry, 1993; Grotevant & McRoy, 1998), the issue of the costs and benefits associated with open and closed adoption remains to be determined.

The most systematic studies of openness come from recent survey data collected from two different sources: from California (Berry, 1993; Berry et al., 1998) and from the Minnesota–Texas Adoption Project (MTAP; Grotevant & McRoy, 1998; Grotevant et al., 1994; McRoy, Grotevant, & White, 1988). On the basis of a survey of 1,396 adoptive parents in California, Berry (1993) found that adoptive parents were most likely to report high levels of satisfaction with adoption when the level of openness was consistent with their initial adoption plan. In a prospective study of 764 adoptive families, however, Berry et al. (1998) did not find openness to be a significant predictor of satisfaction and adjustment among adoptive parents 4 years after the initial placement of the child. In a series of studies, researchers from the MTAP also reported similarities and differences in adoptive parents across varying levels of openness (e.g., Grotevant & McRoy, 1998; Grotevant et al., 1994; McRoy et al., 1988; Von Korff et al., 2006; Wrobel, Ayers-Lopez, Grotevant, McRoy, & Friedrick, 1996). In general, these investigators found that adoptive parents in open adoption were satisfied with the adoption process (Grotevant et al.,
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1994) and that adopted children in open adoption did not experience more difficulties in comparison with adoptees in mediated or closed adoptions (Von Korff et al., 2006). Hollenstein, Leve, Scaramella, Milfort, and Neiderhiser (2003) also found evidence to suggest open adoption is beneficial; in their evaluation, information about birth parents favorably influenced adoptive parents' perception of the birth parents.

Methodological Issues

Some methodological difficulties remain in the conduct of adoption research, however. First, most of the previous studies on openness in adoption have been based on relatively small samples of either adoptive or birth families, making generalization of the findings difficult. Families and individuals involved in adoption, particularly birth parents, are considered to be hard-to-reach populations. Despite the fact that birth mothers represent an important component of the “adoption triangle” (Sorosky, Baran, & Pannor, 1978), they often remain anonymous or hidden and difficult to study, largely because of the sensitive and stigmatizing nature of adoption and relinquishment (March, 1995). Including birth mothers in studies of satisfaction with openness is critically important because a significant number of birth mothers have been found to have trouble “putting the experience behind them” or “moving on with their lives” (Favel, McRoy, & Grotevant, 2000) following the placement of the child. Even less is known about the birth fathers of adopted children (Brodzinsky, 2005; Miall & March, 2005a). Indeed, Sachdev (1991) called birth fathers “a neglected element in the adoption equation” (p. 131). Many adoption studies have examined birth and adoptive parents separately. However, a clearer picture would emerge if information were obtained about openness and postadoption adjustment from all parties involved. In this study, the effect of openness on postplacement adjustment was examined with a large sample of both adoptive and birth parents recruited across the United States.

Second, when larger samples have been available, previous studies have tended to rely on only a single source of information to assess the levels of openness. A common and best known practice has been to categorize adoption into three levels: confidential (closed), mediated (semi-open), and fully disclosed (open; see Grotevant & McRoy, 1998). Whereas the use of a single source of information is helpful to obtain the informant’s experience and perception toward the adoption process, such experience may not necessarily be shared by the other parties involved. The present study used a comprehensive approach to assessing the levels of openness by directly examining perceived degree of openness, the amount of actual contact, and the degree of knowledge about each other, as reported by each participating adoptive and birth parent. This comprehensive assessment approach to the construct of openness provides more reliable information on the effects of openness.

Third, in most previous studies that investigated the effect of openness in adoption, assessments of adoptive or birth parents were conducted with varying lengths of time since placement. Such a practice makes deriving clear inferences difficult because the effect of openness on adoptive and birth parents may vary depending on how long ago the placement occurred. In other words, the length of time since placement may very well be a confounding factor. The current study assessed participants at a relatively uniform length of time: birth parents at approximately 6 months after placement and adoptive parents at approximately 9 months postplacement. This methodological adjustment should allow for more rigorous inferences about the effect of openness.

In summary, the present study was designed to examine the associations between openness in adoption and post-adoption adjustment of birth and adoptive parents while overcoming some of the methodological issues in previous studies. Specifically, measures of openness were obtained from both birth and adoptive parents at a fixed time period, when adopted children were 6–9 months of age. Higher levels of openness were hypothesized to be significantly and positively related to postadoption well-being as measured by participants’ satisfaction with the adoption process and postadoption adjustment.

Method

Sample and Procedures

The Early Growth and Development Study (EGDS) is an ongoing, longitudinal multisite study of adopted children, adoptive families, and birth parents. The primary goal of the EGDS is to examine the effects of genotype–environment interaction and correlation on the social and emotional development of infants and toddlers. The EGDS drew its sample from 33 adoption agencies in 10 states in three regions: Northwest, Southwest, and Mid-Atlantic. These agencies reflect the full range of U.S. adoption agencies: public, private, religious, secular, those favoring open adoptions, and those favoring closed adoptions. Each agency recorded the demographic information from all clients who met our recruitment criteria (domestic adoption placement to a nonrelative within 90 days of birth). More information about the sample and recruitment methods can be found in the article by Leve et al. (2007).

By April 2007, the EGDS recruited 531 birth mothers and 380 adoptive families (both/either adoptive mothers and adoptive fathers). Of these, 359 linked adoption triads (i.e., birth mothers, adoptive parents, and adopted child) were identified. This study is based on the first wave of data obtained from 323 matched adoptive parents and birth mothers who provided complete information on the study variables used here (i.e., indices of adoption openness and adjustment variables).

Because the sample was recruited from three different geographical regions, we examined regional differences in sample demographic characteristics (i.e., age, income, education of birth and adoptive parents). Only two significant regional differences were found: adoptive fathers’ education was slightly higher at the Northwest site than at the Southwest site, and birth mothers’ household income was slightly
higher at the Mid-Atlantic site than at the Southwest site. Comparison of the participants who were included in and excluded from this study revealed no significant differences in terms of demographic variables such as income, education, and age.

A unique feature of the present study was the inclusion of birth fathers. Because of the challenges associated with recruiting this population, data from only 112 birth fathers who were linked to their adoption triads (i.e., adoptive parents, birth mothers, and the adopted child) were collected by April 2007. Given their smaller sample size, results for birth fathers are reported in a subsidiary analysis. Though preliminary, these data begin to fill a critical void in the literature.

Ninety-four percent of adoptive mothers and 92 percent of adoptive fathers in this sample were Caucasian. These estimates for Caucasians are higher than the U.S. Census 2000 national estimates of adoptive parents’ race/ethnicity composition (71% of adoptive parents were non-Hispanic White; see Kreider, 2003, for details). Among birth mothers, 77% were Caucasian, 11% were African American, 4% were Hispanic American, and 8% were of other racial/ethnic background. Eighty-four percent of the birth fathers were Caucasian, 6% were African American, 4% were Hispanic American, and 5% had other racial/ethnic background. The mean ages at the time of placement were 37.04 years ($SD = 5.46$), 38.01 years ($SD = 6.00$), 24.30 years ($SD = 6.09$), and 25.10 years ($SD = 7.14$) for adoptive mothers, adoptive fathers, birth mothers, and birth fathers, respectively. Nearly half of the adoptive parents were characterized as affluent and had annual gross household income that exceeded $100,000. More than 70% of adoptive parents had completed college education or advanced to further education. College degree was the mode of education level for both adoptive mothers and fathers (45.6% and 39.3%, respectively). On average, birth mothers’ and birth fathers’ personal income were $7,416 and $13,515, respectively. High school degree was the mode of birth mothers’ and birth fathers’ educational attainment (32.6% and 45.95%). Forty-three percent ($n = 139$) of the adopted children involved in the target sample of adoptive and birth parents were female. Of the adopted children, 59% were Caucasian, 20% were of mixed races, 11% were African American, and 10% were of unknown race.

Birth parents participated in a 2-hr interview in their home or in another location convenient for them at approximately 6 months postplacement (when the child was 6 months old). Adoptive parents participated in a 2.5-hour interview in their home at 9 months postplacement (when the child was 9 months old). Participants were paid for volunteering their time to the study. For both the birth and adoptive parent assessments, computer-assisted interview questions were asked by the interviewer of the participant, and each participant independently completed a set of questionnaires. Domains assessed for both adoptive and birth parents included personality, psychosocial adjustment, life events, and the adoption placement. In addition, adoptive parents were observed in a series of interaction tasks with their child (e.g., teaching and temperament tasks). Interviewers completed a minimum of 40 hr of training, including a 2-day group session, pilot interviews, and videotaped feedback, prior to administering interviews with study participants. All interviews were audio recorded, and feedback was provided by a trained evaluator for a random selection of 15% of the interviews to ensure adherence to the study’s standardized interview protocols.

### Measures

#### Measuring openness in adoption

Openness in adoption was measured with three subscales independently reported by each birth and adoptive parent: perceived openness, actual contact between adoptive and birth parents, and the amount of knowledge of one another between birth and adoptive parents. This measurement strategy is consistent with Grotevant and McRoy’s (1998) conceptualization of openness as “a spectrum involving different degrees and modes of contact and communication between adoptive family members and a child’s birth mother” (p. 2). The measure of openness differs from the tripartite categorical classification of closed, semi-open, and open adoption in Grotevant and McRoy (1998) and reflects a continuum of openness. Each of these subscales is described below.

**Perceived openness.** Birth mothers and fathers individually reported, on a 7-point scale ranging from very closed (1) to very open (7), their overall ratings on the degree of openness they experienced in their adoption process. Interviewers gave a detailed description of the response options. For instance, the interviewers provided birth parents with a definition of very closed (1) as “you have no information about the adoptive parents,” open (5) as “you have 1 to 3 visits per year and communicate semi-regularly by phone, letters, or emails with the adoptive family,” and very open (7) as “you have visits with the family at least once a month and communicate several times a month by phone, letters, or emails.”

Adoptive parents responded to a question, “how open would you describe the adoption right now?” They were presented with three initial choices to narrow down the openness options (1 = closed or somewhat closed; 2 = somewhat open; and 3 = pretty open). Closed or somewhat closed was defined as “no direct contact with a birth parent,” and pretty open was defined as “somewhat regular contact with a birth parent.” Adoptive parents were then followed up with more detailed questions depending on their answer to this initial question. If they chose closed or somewhat closed, they were asked to provide a more detailed description of their adoption experience, using a three-point response scale ranging from very closed, to closed to semi-open. The definitions of these response options were explicitly provided to enhance participants’ understanding of the concept. If they chose somewhat open as their answer to the initial question, adoptive parents were asked to indicate their adoption experience in more detail using a 3-point scale ranging from semi-open, to moderately open to open. Those who chose pretty open in the initial question were asked to describe their experience using a 3-point scale consisting of open, quite open, and very open. Summarizing
these items allowed a 7-point scale of openness: very closed (1), closed (2), semi-open (3), moderately open (4), open (5), quite open (6), very open (7). This response scale corresponded to the response scale presented to birth parents.

Contact. Birth mothers and birth fathers individually reported on how much contact they had with the adoptive parents. Adoptive mothers and fathers reported separately on how much contact they had with the birth mother and birth father because, unlike adoptive parents, most birth parents were not a couple. To measure the birth mother-report of their contact with the adoptive parents and the birth father-report of their contact with the adoptive parents, each birth parent was asked to indicate how often the adoptive parents engaged in four different types of contact with him or her on a 5-point scale ranging from never (1) to daily (5): sent or gave them photos, exchanged letters or emails, talked with him or her on the phone, and had face-to-face contact (αs = .74 for both birth parents). For the adoptive father- and adoptive mother-reports of their contact with the birth mother, each adoptive parent responded to the same four items as above to describe their engagement in keeping contact with the birth mother plus two additional items rated on the same 5-point scale: how often the birth mother sent them emails/letters and how often the birth mother sent presents to the child (αs = .80 and .79 for adoptive fathers and mothers, respectively). For the adoptive father- and mother-reports of their contact with the birth father, each adoptive parent again responded to the same six questions to report how often the birth father kept contact with him or her (αs = .87 and .86 for adoptive fathers and mothers, respectively). Higher scores on these scales indicated more frequent contact between adoptive families and birth parents.

Knowledge. Birth mothers and birth fathers reported how much knowledge they had with the adoptive mother and father. On a 4-point scale ranging from nothing (1) to a lot (4), birth mothers indicated the extent to which they knew about five aspects of each adoptive parent: his or her physical health, mental health, ethnic and cultural background, his or her reasons for adoption, and the health history of each adoptive parent’s extended family. These items created scales of birth mothers’ knowledge about the adoptive father (α = .85) and birth mothers’ knowledge about the adoptive mother (α = .82). Birth fathers answered the same set of questions measuring birth fathers’ knowledge about the adoptive father (α = .90) and birth fathers’ knowledge about the adoptive mother (α = .88). Similarly, adoptive mothers and fathers independently answered the same questions assessing adoptive mothers’ and adoptive fathers’ knowledge about the birth mother (αs = .80 for both adoptive parents) and adoptive mothers’ and fathers’ knowledge about the birth father (αs = .87 and .86 for the adoptive father- and mother-reports, respectively). Higher scores indicated more knowledge about the other party.

Aggregated openness measure. The perceived openness, contact, and knowledge subscales were combined to create an aggregated openness measure for each informant (i.e., adoptive fathers, adoptive mothers, birth mothers, and birth fathers). This procedure created six aggregated openness measures: adoptive father- and mother-reported openness with respect to the birth mother (both αs = .74), birth mother-report of openness (α = .78), adoptive father- and mother-reported openness with respect to the birth fathers (αs = .61 and .59, respectively), and birth father-report of openness (α = .86). Each subscale was standardized before aggregating because the measures of perceived openness, contact, and knowledge had different response formats.

One possible confound in the study was selection effect. That is, more troubled birth and adoptive parents may choose closed adoption because they are less willing to share their information with other families involved in adoption. To address this issue, associations between depression, anxiety, and annual income of birth and adoptive parents and their reports of openness were examined. No significant correlations of self-reported depression and anxiety and annual income with the degree of openness in any parties involved in adoption were found. Interestingly, however, adoptive mother-report of openness was positively related to adoptive mothers’ report of anxiety (r = .12, p < .05), suggesting that adoptive mothers in more open adoptions tended to be more anxious, contrary to the direction of expectation for selection effects.

Satisfaction with the adoption process. Previous studies have shown that the degree of openness is associated with satisfaction with the adoption process (Berry, 1993; Grotevant et al., 1994). To measure levels of satisfaction, birth mothers and fathers independently used a 4-point scale ranging from very dissatisfied (1) to very satisfied (4) to report on their satisfaction with (a) the amount of information about the adoptive mother, (b) the amount of information about the adoptive father, (c) the amount of contact with the adoptive family, and (d) the levels of openness of the adoption plan. Responses of these four items were internally consistent (αs = .80 and .89 for birth mothers and fathers, respectively) and were thus combined. In a similar fashion, adoptive fathers and mothers independently completed items using the same 4-point scale regarding their satisfaction with (a) the amount of information about the birth mother, (b) the amount of information about the birth father, (c) the amount of contact with the birth mother, (d) the amount of contact with the birth father, and (e) the levels of openness of the adoption plan. These items were combined to form a scale of adoptive fathers’ and mothers’ satisfaction (both αs = .64). Higher scores indicated higher satisfaction with the adoption process.

Postadoption adjustment. Two indices were used to assess birth parents’ adjustment. First, on a 5-point scale ranging from improved a lot (1) to a lot worse (5), a birth parent indicated the extent to which going through adoption affected his or her (a) quality of romantic relationship, (b) financial well-being, (c) physical health, (d) mental and emotional health, (e) friendships, (f) relationship with his or her spouse/partner, (g) general satisfaction with life, (h) satisfaction with physical appearance, (i) relationship with his or her parents, (j) sense of control over his or her life, and (k) ability to plan for his or her future (αs = .78 and .84 for birth mothers and fathers, respectively). The responses
were reverse-coded and summed so that the higher scores indicated better postadoption adjustment.

Second, trained interviewers provided ratings of each birth parent. After completing a 2-hr in-person interview, interviewers completed 16 items regarding their impressions of the birth parents’ adjustment using a 4-point scale, ranging from very true (1) to not true (4). Sample items included “respondent seemed anxious,” “respondent did or said things to clearly indicate depression or sadness,” “respondent seemed irritable or hostile,” and “respondent seemed to feel well.” Items were coded such that higher scores indicated better adjustment of birth parents in the eyes of interviewers. Observers’ subjective impression of participants has been found to be reliable and valid and has been shown to be a useful and cost-effective supplement to naturalistic observation procedures (Weinrott, Reid, Bauske, & Brummett, 1981). Interviewers’ impressions demonstrated reasonably high internal consistency in the present study (α = .86 and .88 for birth mothers and fathers, respectively). In terms of convergent validity, although no comparable measure of self-reported global well-being was collected in this study, modest associations would be anticipated between this measure and global self-worth, as assessed by the Harter Adult Self-Perception Profile (Messer & Harter, 1986). Analyses indicated that interviewer ratings of birth mothers were marginally, yet positively, associated with the self-reported global self-worth subscale (r = .10, p < .10). For birth fathers, this correlation was nonsignificant (r = .08, ns).

Adoptive parents’ postadoption adjustment was measured somewhat differently. First, adoptive parents completed items regarding the extent to which the adoption process affected (a) quality of their relationship, (b) their relationship with their other children, (c) physical health, (d) mental and emotional health, (e) friendships, (f) relationships with in-laws, (g) general satisfaction with life, (h) social life, (i) relationship with his or her parents, and (j) career or professional life. Items were rated on a scale ranging from a lot worse (1) to improved a lot (5). The items were added to form a scale of adoptive parents’ adjustment to the adoption process (αs = .62 and .70 for adoptive fathers and mothers, respectively). Second, using the same 5-point response scale, adoptive parents also were asked to rate how much each of the 10 domains of the adoption process improved after having the adopted child. We summed the items to create a scale of adoptive parents’ adjustment after welcoming the adopted child into their home (αs = .73 and .74, respectively, for adoptive fathers and mothers). For both scales, higher scores indicated better postadoption adjustment.

Covariates. Several demographic variables (i.e., household income and education) and possible confounding variables were included in the analyses. One potential confounding variable in predicting adoptive parents’ postadoption satisfaction and adjustment was the presence of biological children in the adoptive family. Of the 323 adoptive families, 53 (16%) had at least one biological child. There was no significant difference between adoptive families with and without biological children of their own in terms of adoptive fathers’ satisfaction and adjustment indices. However, compared with adoptive mothers who had biological children of their own, adoptive mothers who did not have any biological child were more likely to report that the experience of adoption process and welcoming the adopted child into the home positively affected their adjustment, Fs(1, 321) = 5.79 and 7.41, ps < .01, respectively. We thus included the presence of biological child in adoptive family in the model for adoptive mothers.

Another covariate that required attention was the level of choice or control each adoptive party had in deciding the level of openness in adoption. For instance, adoptive and birth parents who had choices in selecting the level of openness may have felt more satisfied with the adoption process. In this study, adoptive and birth parents were asked to respond to the question, “how much choice did you have regarding level of openness?” Their responses were rated on a 3-point scale ranging from no control (either agency had a pre-established policy on the level of openness, or other birth/adoptive parents decided) to some control (negotiated with the parties involved in the adoption) to full control (the respondent decided the level of openness). Higher scores indicated higher levels of control or choice the respondent had in determining the openness level. The level of choice in deciding the openness level was not associated with satisfaction or adjustment indices among adoptive parents and birth mothers. For birth fathers, however, it was positively associated with satisfaction (r = .23, p < .05), showing that birth fathers reported higher satisfaction with the adoption process when they had higher levels of control in deciding the levels of openness. Thus, this covariate was included in the birth fathers’ model in predicting their satisfaction with the adoption process.

Overview of Analyses

We first examined descriptive statistics of the study variables. We then reported bivariate correlations between the degrees of openness reported by three distinctive informants (i.e., adoptive fathers and mothers, and birth mothers) and their adjustment indices. Next, we performed a series of structural equation modeling to test whether openness in adoption was associated with postplacement adjustment of adoptive fathers, mothers, and birth mothers. As a subsidiary analysis, we examined bivariate correlations between openness in adoption and birth fathers’ postadoption psychological adjustment. The analysis of the birth father sample was conducted separately from the abovementioned analyses for adoptive parents and birth mothers because of the smaller sample size.

Results

Descriptive and Correlational Analyses

Means and standard deviations of the study variables are presented in Table 1. As shown in Table 1, the means for openness were above 4.5 on a 7-point scale for all adoptive parties, showing that, on average, the sample perceived their
adoption processes to be slightly open. Table 2 describes the frequency of this 7-point perceived openness scale. For all four parties, the modes and medians were 5, with slightly negatively skewed distributions (skewness $-.22$, $.27$, $.34$, and $.50$ for adoptive fathers, adoptive mothers, birth mothers, and birth fathers, respectively). These descriptive statistics indicate that the adoption practices in our sample were slightly skewed toward being more open. Only 1 adoptive mother, 1 birth mother, and 7 birth fathers perceived their adoptions as *very closed*. Approximately 62% of adoptive fathers, 64% of adoptive mothers, 71% of birth mothers, and 57% of birth fathers perceived their adoptions as *open*. Approximately 62% of adoptive fathers, 64% of adoptive mothers, 71% of birth mothers, and 57% of birth fathers perceived their adoptions as *very open*. However, as evident from Table 2, substantial variation in their responses was evident.

Table 3 presents correlations among the aggregated measure of openness, satisfaction with the adoption process, and postadoption adjustment among adoptive parents and birth mothers. The correlations indicate that the degree of openness in the adoption process was significantly related to satisfaction with the adoption process. This pattern was consistent regardless of who reported satisfaction or openness. Interestingly, openness was not significantly associated with adoptive fathers’ postadoption adjustment or improved well-being after adopting the child. For adoptive mothers, openness was modestly associated with improved well-being after adoption of the child. However, no significant association between openness and adoptive mothers’ postadoption adjustment emerged. For birth mothers, openness was positively correlated with the mother’s postadoption adjustment and interviewers’ impression of their well-being.

We also computed correlations among the observed variables that together formed a latent construct in subsequent structural equation modeling analyses (not shown). Two observed variables of adoptive parents’ postadoption adjustment (i.e., adjustment after going through the adoption process and improved well-being after adopting the child) were highly correlated ($r = .84$ and $.78$ for adoptive fathers and adoptive mothers, respectively), suggesting that it is reasonable to form a latent construct from these two measures of adjustment. The correlations among the indices of

Table 1
Means and Standard Deviations of the Study Variables

<table>
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<th>Variable</th>
<th>Adoptive father</th>
<th>Adoptive mother</th>
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<tr>
<td>Knowledge about adoptive fathers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact with birth mothers</td>
<td>12.16 3.09</td>
<td>12.48 3.14</td>
<td>17.39 4.41</td>
<td>15.21 4.31</td>
</tr>
<tr>
<td>Contact with birth fathers</td>
<td>7.73 2.56</td>
<td>7.71 2.49</td>
<td>13.89 2.76</td>
<td>12.96 3.37</td>
</tr>
<tr>
<td>Contact with adoptive parents</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfaction toward adoption process</td>
<td>15.77 2.57</td>
<td>15.18 2.67</td>
<td>33.39 $^b$ 6.18</td>
<td>34.34 $^b$ 5.85</td>
</tr>
<tr>
<td>Measures of postadoption adjustment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improved well-being after placement of the child</td>
<td>31.42 4.26</td>
<td>31.85 4.72</td>
<td>23.39 $^b$ 6.18</td>
<td>34.34 $^b$ 5.85</td>
</tr>
<tr>
<td>Postadoption adjustment</td>
<td>31.89 4.40</td>
<td>33.31 5.05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interviewer’s impression of well-being</td>
<td>14.22 1.73</td>
<td>13.77 1.69</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note. Sample sizes were $n = 323$ for each of adoptive father, adoptive mother, and birth mother subgroups and $n = 112$ for birth fathers.

$^a$ The descriptive statistics for the measure of openness shown in Table 1 is based on raw scores. In the subsequent analyses, these measures were standardized and aggregated.

$^b$ These means are not readily comparable to the means for adoptive parents because of the differences in the possible ranges of the scales.

Table 2
Frequency in the Measure of Openness in the Adoption Process by Informants

<table>
<thead>
<tr>
<th>Scale</th>
<th>Adoptive father</th>
<th>Adoptive mother</th>
<th>Birth mother</th>
<th>Birth father</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very closed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0 0.00</td>
<td>1 0.31</td>
<td>1 0.31</td>
<td>7 6.48</td>
</tr>
<tr>
<td>2</td>
<td>21 6.54</td>
<td>16 4.97</td>
<td>10 3.11</td>
<td>5 4.63</td>
</tr>
<tr>
<td>3</td>
<td>56 17.45</td>
<td>54 16.77</td>
<td>32 9.94</td>
<td>12 11.11</td>
</tr>
<tr>
<td>4</td>
<td>44 13.71</td>
<td>43 13.35</td>
<td>50 15.53</td>
<td>22 20.37</td>
</tr>
<tr>
<td>5</td>
<td>132 41.12</td>
<td>131 40.68</td>
<td>115 35.71</td>
<td>37 34.26</td>
</tr>
<tr>
<td>6</td>
<td>44 13.71</td>
<td>50 15.53</td>
<td>60 18.63</td>
<td>15 13.89</td>
</tr>
<tr>
<td>Very open</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>24 7.48</td>
<td>27 8.39</td>
<td>54 16.77</td>
<td>10 9.26</td>
</tr>
<tr>
<td>Missing</td>
<td>2 1</td>
<td>1 1</td>
<td>215</td>
<td></td>
</tr>
</tbody>
</table>
openness reported by three different informants (i.e., adoptive fathers, adoptive mothers, and birth mothers) ranged from .66 to .81, showing a reasonable agreement. However, birth fathers’ report of openness did not produce such a high convergence with adoptive parents’ report of openness with birth fathers ($r_s = .56$ and $.45$, $p < .01$, with adoptive fathers’ and mothers’ report of openness, respectively). Given the smaller sample size of birth fathers and a moderate agreement between adoptive parents’ and birth fathers’ report of openness, we decided to conduct a separate, subsidiary analysis for birth fathers.

The Effect of Openness in Adoption on Adoptive Parents’ Postadoption Adjustment and Satisfaction

The hypothesis regarding the link between openness in the adoption process and postplacement adjustment among birth and adoptive parents was tested with LISREL 8.72 (Jöreskog & Sörbom, 2005). The results of the structural equation models for both adoptive fathers and mothers are shown in Figure 1. The coefficients presented in Figure 1 are based on standardized solutions. Although not shown in the figure, adoptive parents’ household income was controlled in the analyses. Adoptive parents’ income was not significantly associated with either their postadoption adjustment or their satisfaction with the adoption process. Additionally, for the adoptive mothers’ model, the presence of a biological child of their own in adoptive families, which was not significantly associated with outcomes, was also controlled. As shown in Figure 1, openness reported by three independent reporters loaded significantly on a latent construct ($\lambda_s = .72$ to .91). The loadings of two indicators assessing adoptive parents’ postadoption adjustment also were significant for both adoptive-father and adoptive-mother models ($\lambda_s = .87$ to .92).

As expected, a statistically significant path from openness to satisfaction emerged ($\beta_s = .16$ and $.23$, $p < .01$, for adoptive fathers and mothers, respectively), indicating that adoptive parents were more satisfied when there was more contact and communication with the birth mother. The coefficient for the path between openness and adoptive fathers’ postadoption adjustment did not reach statistical significance. For the adoptive mother model, the association between openness and postadoption adjustment was only marginally significant ($\beta = .11$, $p < .10$). The fit of the two models was satisfactory: for adoptive fathers, $\chi^2(12) = 7.07$, root mean square error of approximation (RMSEA) = .

### Table 3

<table>
<thead>
<tr>
<th>Opennessa</th>
<th>Adoptive fathers</th>
<th></th>
<th></th>
<th>Adoptive mothers</th>
<th></th>
<th></th>
<th>Birth mothers</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Satisfaction</td>
<td>.16**</td>
<td>.07</td>
<td>.04</td>
<td>.20**</td>
<td>.05</td>
<td>.11*</td>
<td>.14**</td>
<td>.19**</td>
<td>.15**</td>
</tr>
<tr>
<td>Adjustmentb</td>
<td>.14**</td>
<td>.02</td>
<td>.03</td>
<td>.22**</td>
<td>.06</td>
<td>.12*</td>
<td>.12**</td>
<td>.19**</td>
<td>.15**</td>
</tr>
<tr>
<td>Improved well-beingc</td>
<td>.12*</td>
<td>.07</td>
<td>.05</td>
<td>.14**</td>
<td>.06</td>
<td>.09†</td>
<td>.31**</td>
<td>.21**</td>
<td>.13**</td>
</tr>
</tbody>
</table>

Note. $N = 323$ matched adoptive families and birth mothers.

a Openness is a combination of three subscales (i.e., openness, contact, and knowledge). b Postadoption adjustment after going through adoption process. c Well-being after adopting the child.

† $p < .10$. ** $p < .05$. *** $p < .01$.

![Figure 1](image_url)
The Effect of Openness on Birth Mothers’ Postadoption Adjustment and Satisfaction

The results for birth mothers are presented in Figure 2. Although birth mothers’ income and educational level were controlled in these analyses, they are not included in the figure for the parsimony of graphical presentation. The paths from birth mothers’ income and education to three outcome variables were not statistically significant, except that birth mothers’ income was positively associated with interviewers’ impressions of birth mothers’ well-being (β = .15, p < .01).

Estimation of this model yielded a good fit to the data, χ²(12) = 38.12, RMSEA = .08, GFI = .97. Consistent with the results for adoptive parents, openness was positively and significantly associated with birth mothers’ satisfaction with the adoption process (β = .18, p < .01). Also consistent with expectations, openness was positively associated with birth mothers’ postadoption adjustment (β = .22, p < .01). The finding of an association between openness and adjustment was further strengthened by the significant path from openness and interviewers’ impression of birth mothers’ well-being (β = .16, p < .01). Taken together, these results suggest that birth mothers’ postadoption adjustment was enhanced when they kept in contact with adoptive parents.

A Subsidiary Analysis for Openness and Birth Fathers’ Adjustment

To supplement the findings for birth mothers, we examined the associations between birth fathers’ adjustment and openness in adoption. This analysis was conducted separately from other analyses because (a) there were only 112 participating birth fathers, as opposed to 323 birth mothers who were linked to the other members of adoption triads, and (b) birth father-reported openness does not converge with that of other informants. Table 4 presents the correlations between the four indices of openness and birth fathers’ postadoption adjustment. As mentioned earlier, because the preliminary analyses showed that the levels of choice or control birth fathers had in determining the degree of openness was positively associated with birth fathers’ satisfaction toward the adoption experience (r = .23, p < .05), we included it as a covariate on computing the coefficients for birth fathers’ satisfaction. The results indicated that birth father-report of openness was positively correlated with his satisfaction with the adoption process (r = .41, p < .01) and postadoption adjustment (r = .25, p < .01). However, this pattern of results was not apparent when adoptive parent reports of openness were used. None of the openness indices was significantly associated with interviewers’ impression of birth fathers. Thus, the overall pattern of findings appeared to be quite different from that of birth mothers.

Discussion

Recent advances in assisted reproductive technologies and the availability of adoption placements have expanded the definition of what it means to be a parent. For some, it means a newfound ability to rear a child from birth onward; for others, it means the gift of giving life to another through an adoption placement or through assisted reproductive technologies (e.g., embryo, egg, insemination donation, or surrogacy). However, despite varied routes to parenthood, little is known about how the ongoing relationship between rearing and biological parents relates to their own psychosocial adjustment. Using a sample of matched birth and adoptive parents, this study examined the relationship between levels of adoption openness and postplacement satisfaction and adjustment among them. The results that emerged from this study are fairly straightforward: For adoptive parents and birth mothers, the degree of openness in the adoption was significantly and positively associated with satisfaction with the adoption process shortly after the adoptive placement. Increased openness was also significantly related to better postplacement adjustment of birth mothers. The finding that birth mothers who were involved

Figure 2. Structural equation model of the link between openness in the adoption process and birth mothers’ postadoption adjustment. Although not shown, birth mothers’ income and education were controlled. **p < .01.
in more open adoptions had better postplacement adjustment outcomes was further strengthened by interviewers’ reports of their impression of birth mothers’ well-being. These results are in contrast to some earlier claims that open adoption would increase distress among birth and adoptive parents (e.g., Blanton & Deschner, 1990; Kraft et al., 1985), but are consistent with more recent findings by Grotevant and McRoy’s (1998) that voluntary open adoption tends to reduce the stress for all parents involved in the adoption process. Although straightforward, these results have significant implications for adoption practices and offer some important information about settling the controversy of open versus closed adoption. Our findings provide a formal evaluation of open adoption practices, showing that satisfaction with the adoption process for adoptive and birth parents and postadoption well-being of birth mothers are indeed higher when adoption process is more open.

Consistent with Kirk’s (1964) expectation, this study shows the beneficial effect of a new form of relationship that was forged in open adoption. In this special relationship, birth and adoptive parents come together to have what Kirk (1964) called “shared fate” to the benefit of the parties involved. The results reported here also provide evidence for the strength of what Granovetter (1973) termed “weak ties,” where adoptive and birth parents are linked through special interpersonal relationships established by open adoption. The benefits to birth mothers appear to arise from exchanges and contacts with adoptive parents that provide informal sources of social supports. Assurance, security, and knowledge about the birth parents and the adopted child gained through open contacts with birth parents appear to enhance the adoptive parents’ satisfaction.

The robust associations between openness and postadoption adjustment among adoptive parents did not emerge, however. Openness was not associated with postadoption adjustment for adoptive fathers and was only modestly associated with adjustment for adoptive mothers. Quite possibly, the advantages and disadvantages for adoptive parents in open adoption might cancel each other out. For instance, results obtained from the interviews with adoption agency personnel (Grotevant & McRoy, 1998) and a community survey (Miall & March, 2005b) documented both advantages and disadvantages of open adoption for adoptive parents. The advantages included adoptive parents’ increased sense of entitlement to the adopted child, reduced fear of birth parents, and benefits of knowing the medical and psychological background of the child. Disadvantages included adoptive parents’ feeling threatened by birth parents, the possible complexity and challenge created by contacts, and adoptive parents’ fear of interference by birth parents in raising the child. Indeed, McRoy and Grotevant (1998) reported that although adoptive parents in open adoption were, in general, satisfied with the amount of contact with the birth parent, adoptive parents in direct contact with birth mothers did express some concerns about the maturity of birth mothers and the amount of time and energy that contact with them demanded. Perhaps increased contact with birth parents also increases the demands for adoptive parents’ time and energy during a time when adoptive parents, many of whom are first time parents, are busy adapting to the parental role. Although adoptive parents in open adoption felt that openness was in the best interests of the children, 9 months postplacement may well be a highly challenging time for them. At this time, their adjustment and well-being may be more affected by how they adapt to their lives of raising the adopted child than by the degree of contact with birth mothers. Indeed, a recent report by Gross, Shaw, Burwell, and Nagin (in press) showed child effects on maternal depression during the first 18 months of life.

The methodological advances made in this study are noteworthy. First, this study has made a contribution to the assessment of openness construct by showing utility of a multi-informant strategy. The multi-informant assessment strategy turned out to be very informative. Unlike many multi-agent measures, fairly high agreement in openness emerged across informants. Such high convergent validity increases confidence in the results reported here. Second, openness was measured on a continuum instead of using a tripartite categorization. As pointed out by Brodzinsky (2005), continuous measures that including information sharing, contact, and communication should provide more fine-grained assessment of the subtle variation in the continuum of openness in adoption.

This study is among the first with a relatively large sample that include both adoptive and birth parents linked through the adopted child to examine associations between openness and adjustment of birth and adoptive parents. A design that includes both birth mothers and birth fathers provides a more complete picture of the parties involved in the adoption processes. Previous research has tended to focus on adopted children and their adoptive parents (Brodzinsky & Schechter, 1990; Grotevant & McRoy, 1998; Smith & Brodzinsky, 2002). Few studies have investigated the postadoption adjustment of birth mothers who represent an important component of the “adoption triangle” (Sorosky et al., 1978). Understanding variation in postadoption adjustment among birth fathers as well as the divergent trajectories of health of this “hidden” population has special relevance to preventive intervention efforts targeted at this at-risk population.

<table>
<thead>
<tr>
<th>Table 4</th>
<th>Correlation Coefficients Between Degree of Openness and Birth Fathers’ Postadoption Satisfaction and Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Birth fathers</td>
</tr>
<tr>
<td>Openness</td>
<td>Satisfaction</td>
</tr>
<tr>
<td>Adoptive fathers</td>
<td>.13</td>
</tr>
<tr>
<td>Adoptive mothers</td>
<td>.02**</td>
</tr>
<tr>
<td>Birth fathers</td>
<td>.41**</td>
</tr>
</tbody>
</table>

Note. N = 112. The coefficients were computed on the basis of pairwise deletion. Openness is a combination of three subscales (i.e., perceived openness, contact, and knowledge). * The levels of choice birth fathers had in deciding the degree of openness in adoption were statistically controlled in computing coefficients between openness indices and satisfaction. ** p < .01.
Finally, the possible confound of length of time since adoption was minimized by assessing our participants at a fairly uniform point in time (approximately 6 months for birth parents and 9 months for adoptive parents) since placement. This advance is not trivial, as it is the case that postplacement adjustment varies with length of time since placement. Although collecting data in a narrow window of time is challenging, the efforts are worthwhile because such information provides more rigorous inference about the association.

Some caveats of the present study must be noted. First, cross-sectional data that are collected shortly after adoptive placement (6 to 9 months) were used, which does not allow for a long-term investigation of the adjustment of birth and adoptive parents or the changing nature of openness over time. Because openness in adoption fluctuates with time as life circumstances and psychological state of both birth and adoptive families change (Grotevant, Perry, & McRoy, 2005), future studies would benefit from considering the longitudinal effects and long-term trend of openness on birth and adoptive parent adjustment. Second, this study focused only on the postplacement adjustment of birth and adoptive parents. Future studies examining the effects of openness on adopted children would enhance our understanding of the total benefits associated with open adoption. Third, although the contribution of birth fathers is not trivial, the smaller sample size posed analytical challenges and prevented the full evaluation of the study hypotheses. Fourth, although there is substantial variation in the degree of openness, the current sample had relatively open adoption experiences. Quite possibly, adoptive and birth parents who selected more open adoption practices would feel more satisfied with greater openness in adoption. This possibility should be considered when interpreting the results reported in this article and when planning future research studies. Fifth, as with many other studies, the presence of selection bias cannot be entirely eliminated. Although we examined a set of adoptive and birth parents’ characteristics that could potentially bias the levels of openness and satisfaction, it is still possible that some potential confounds were overlooked. The results should be viewed as preliminary before rigorous randomized trials are conducted. Sixth, birth and adoptive parents usually entered the adoption process with certain expectations about openness. It is likely that whether their expectations about openness were met or violated would affect their levels of satisfaction. Future research is likely to benefit from addressing whether a match or a mismatch between birth and adoptive parents’ expected openness and actual openness accounts for the link between openness and satisfaction. Finally, readers are reminded that the magnitude of the standardized coefficients were small. It should be emphasized, however, that because of complexity in human behaviors and emotions, effect sizes are necessarily small in outcomes with multiple determinants (Ahadi & Diener, 1989). Nevertheless, given the methodological strengths, such as use of multiple measures and informants for both predictors and criterion variables, the significant findings raise our confidence in the results.

References


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