Relational Psychotherapy Mothers’ Group: A developmentally informed intervention for at-risk mothers

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Abstract
The Relational Psychotherapy Mothers’ Group (RPMG), a developmentally informed, supportive psychotherapy designed to serve heroin-addicted mothers with children up to 16 years of age, aims at addressing psychosocial vulnerabilities, and facilitating optimal parenting, among at-risk mothers. We present preliminary evidence on the efficacy of RPMG as an “add on” treatment in comparison with standard methadone counseling alone. At the end of the 24-week treatment period, mothers receiving RPMG plus standard methadone counseling demonstrated lower levels of risk for child maltreatment, greater involvement with their children, and more positive psychosocial adjustment than women who received methadone counseling alone. Children of RPMG participants also reflected fewer problems in multiple areas. At 6 months posttreatment, RPMG recipients continued to be at a relative advantage, although the magnitude of group differences was often attenuated. Notably, urinalyses indicated that RPMG mothers showed greater improvements in levels of opioid use over time than comparison mothers.

Recent years have seen rapid increases in the number of children at risk for negative outcomes by virtue of maternal substance abuse. Current estimates are that over 3 million American women regularly use illicit drugs (National Center on Addiction and Substance Abuse, 1996), and up to 80% of these women are mothers of at least one child. Drug abusing mothers show elevated levels of psychiatric disturbance and significant problems with child rearing. Not surprisingly, their children also display several psychosocial difficulties: by early adolescence, as many as 65% of children of drug using mothers have been found to have a major psychiatric disorder (Luthar, Cushing, Merikangas, & Rounsaville, 1998).

The constellation of psychosocial vulnerabilities existing among addicted mothers points to the need for multifaceted parenting interventions for them. In this paper, we describe one such intervention, the Relational Psychotherapy Mothers’ Group (RPMG), a treatment that was developed for heroin-addicted mothers with children up to 16 years of age. RPMG is a supportive psychotherapy aimed at facilitating optimal parenting among at-risk mothers and is offered over 24 weekly group sessions which supplement standard methadone treatment. In discussions that follow, we present the theoretical perspectives
underlying this intervention and its major defining features, followed by results of a pilot study on its efficacy.

**Theoretical Perspectives Underlying the RPMG Intervention**

Development of RPMG was based on a multivariable risk and protective model derived from the literature on resilience in developmental psychopathology. A common view in this literature is that processes influencing individuals’ development operate at three broad levels: those related to the individual, family, and community (Luthar & Zigler, 1991; Werner & Smith, 1992). Consideration of both negative and positive forces within each of these levels is integral to understanding diverse developmental pathways among—and thus in designing effective interventions for—individuals at risk for negative outcomes.

At the **individual** level, most striking among areas of substance abusing mothers’ vulnerability is their high comorbid psychopathology, particularly in the realms of depression and anxiety (Hawley & Disney, 1992). In recent research on addicted mothers (Luthar et al., 1998), almost 9 out of 10 women were found to have at least one DSM-III-R affective or anxiety disorder diagnosis during their lifetimes. Similarly, given high levels of both past and current ongoing traumatic life events, rates of posttraumatic stress disorder are also high (Fullilove et al., 1993; Mirin, Weiss, Griffin, & Michael, 1991; Najavitz, Weiss, & Shaw, 1997). Recognizing these psychiatric difficulties, the RPMG intervention entails concerted attention to substance abusing mothers’ psychological vulnerabilities, with the view that unless these individuals’ own psychological needs are addressed, attempts to improve their parenting behaviors are unlikely to achieve any lasting success. One half of the 24 sessions in this treatment are thus directly focused on the women’s own functioning, addressing topics such as coping with anger, depression, low self-esteem, and multiple life stressors.

With regard to individual attributes that serve protective functions, salient are addicted mothers’ feelings of regret for past errors. Stereotypes that drug-abusing mothers are “ignorant” about appropriate child rearing are not based in fact (Luthar, Cushing, & McMahon, 1997; Mayes & Bornstein, 1997). Clinical data indicate, to the contrary, that these mothers are often aware that their parenting strategies can be counterproductive (Hawley & Disney, 1992; Levy & Rutter, 1992; Luthar & Suchman, 1999; Luthar & Walsh, 1995). The RPMG intervention thus entails deliberate attempts to harness mothers’ capacities to acknowledge past “errors” as catalysts for changes toward optimal parenting behaviors.

At the **familial** level, childhood experiences of dysfunctional parenting often constitute a salient risk for substance-abusing women. Many women report having been exposed, as children, to inadequate adult nurturance and either excessively lax or rigid disciplinary styles; physical, sexual, and emotional abuse are also common (Davis, 1990; Grice, Brady, Dustan, Malcolm, & Kilpatrick, 1995; Najavitz et al., 1997; Rohsenow, Corbett, & Devine, 1988). Adversities such as these heighten risks for how addicted mothers themselves come to function as parents. Studies have demonstrated tendencies to use authoritarian disciplinary approaches which reinforce negative attention-seeking behaviors among children (Bauman & Dougherty, 1983; Black & Mayer, 1980); incidents of child maltreatment are also frequently documented (Black & Mayer, 1980; Wasserman & Leventhal, 1993).

Such parenting problems are addressed in various ways within the RPMG intervention. At the most concrete level, 12 of the 24 sessions are focused on specific parenting issues, such as developing strategies for circumventing violent conflict, using alternatives to physical punishment, establishing age-appropriate limits in disciplining children, and fostering developmentally appropriate and warm parenting styles. Second, in cognizance of the women’s negative childhood experiences, the RPMG therapists foster the mothers’ own negotiation of fundamental developmental tasks (e.g., developing trust vs. mistrust in relationships) and serve as role models of effective parenting (e.g., by consistently offering respect and setting firm but nonpunitive limits).
From the standpoint of protective familial factors, critical are the strong desire and potential that most addicted mothers have to benefit from supportive parenting interventions. Contrary to common stereotypes, many substance-abusing women are highly concerned about the well-being of their children and acknowledge substantial confusion regarding appropriate child-rearing strategies (Colten, 1982; Grossman & Schottenfeld, 1992; Hawley & Disney, 1992; Levy & Rutter, 1992; Tunving & Nilsson, 1985). RPMG is grounded in the basic assumption that with adequate support and guidance, many addicted mothers have both the will and capacity to benefit from sensitive interventions (e.g., Greif & Dreschler, 1993; Lief, 1985).

At the level of the community, perhaps the most pronounced risk confronting addicted mothers is exposure to stigma, not only from society in general but also, frequently, from service providers (Chang, Carroll, Behr, & Kosten, 1992; Eliason, Skinstad, & Helene, 1995; Luthar et al., 1997; Mackie-Ramos & Rice, 1988; Najavits et al., 1995). As a result of such stigmas, drug-abusing mothers are often wary of treatment approaches that seem to focus primarily on their “deficits” as parents (Levy & Rutter, 1992), such as those in which they are “taught” parenting skills from a strictly didactic standpoint. Within RPMG, therefore, the effort is to discuss child-rearing issues within the context of supportive psychotherapeutic experiences, using guided discovery approaches as in insight-oriented therapy (e.g., Greif & Dreschler, 1993; Luthar & Walsh, 1995).

Apart from exposure to societal stigmas, a second community-level risk is the dysfunctional informal social networks. Social isolation is a serious problem, and even the few addicted women who do have close relationships report vulnerability to a range of difficulties (Amaro & Hardy-Fanta, 1995; Brunswick & Titus, 1998; Wald, Harvey, & Hibbard, 1995). To illustrate, male partners of many addicted women supply them with drugs yet provide limited emotional, financial, or parenting support; physical and emotional abuse are also common (Dembo et al., 1988; Wald et al., 1995; Wallace, 1991; Wells, Clark, et al., 1994).

Such evidence of problematic relationships is of particular concern given the critical significance of interpersonal relationships for women in general. Stresses associated with gender roles and relations with others have been viewed as contributing to the higher rates of depression among women than men. Furthermore, interpersonal problems often constitute a greater risk for depression among women than problems in other realms of life (see McGrath, Keita, Strickland, & Russo, 1991).

Whereas women’s high investment in relationships may sometimes constitute a risk, it may equally confer advantages from an intervention standpoint, as addicted women can be more responsive than males to positive interpersonal influences in psychotherapy (Kosten, Gwin, Kosten, & Rounsaville, 1993; Luthar, Glick, Zigler, & Rounsaville, 1993; McGrath et al., 1991). Intervention efforts based on affiliation and social ties have been viewed as particularly promising in working with female addicts (Brunswick, Messeri, & Titus, 1992; Webster-Stratton, 1997) because they build on the unmet affiliative needs that are commonly linked with drug use among women (Brunswick, Lewis, & Messeri, 1991).

In view of these factors, RPMG is designed as a supportive psychotherapy group treatment. The use of a group format helps addicted mothers to develop their interpersonal skills, to perceive the universality of many dilemmas pertaining to their roles as women and mothers (e.g., Yalom, 1985), and to benefit from cohesive and mutually supportive interpersonal networks (see Webster-Stratton, 1997).

**Defining Features of RPMG**

Four central characteristics define RPMG as a psychotherapy intervention. The first is a supportive therapists’ stance. Encompassing the Rogerian constructs of acceptance, empathy, and genuineness (Braswell & Seay, 1984; Weiner, 1983), this stance is viewed as essential for fostering a strong therapeutic alliance.
and subsequent progress in meeting mothers’ unmet developmental needs.

The second is an interpersonal, relational focus, a component with roots in gender-sensitive perspectives on women as well as in interpersonal psychotherapy (Klerman, Weissman, Rounsaville, & Chevron, 1984). This aspect of RPMG provides the basis for addressing the interpersonal isolation and stress that figure prominently in addicted women’s multiple roles, including those as parents.

With regard to features as a group treatment, RPMG involves only substance-abusing mothers (not mothers and fathers), and groups are led by female therapists in order to optimize women’s comfort in discussing sensitive issues such as those relating to their own victimization. To accommodate the frequently chaotic schedules of patients in methadone treatment, group membership is open or rotating. Sessions are led by a clinical psychologist who is assisted by a drug counselor from the methadone clinic, thus bringing therapeutic expertise across diverse domains including child development, women’s psychology, and addiction-related issues. All sessions are semistructured, and a therapists’ manual (Luthar, Suchman, & Boltas, 1997) provides a detailed outline for addressing each session topic.

The fourth defining feature of RPMG is discovery-based, insight-oriented parenting skill-facilitation. Rather than “instructing” the mothers about appropriate parenting, therapists encourage the women to explore the strengths and limitations of their own strategies, and guide them toward developing optimal approaches. These goals are pursued via open-ended discussions as well as through specific role plays and “brainstorming” exercises (for further details, please see Luthar & Suchman, 1999; Luthar, Suchman, et al., 1997). The discovery-based, nondirective approach used in RPMG serves to empower the mothers, implicitly acknowledging their motivation to become better parents and their own capacities to foster the positive development of their families.

Overview of the Pilot Study

The RPMG treatment was designed, manualized, and tested as part of a 3-year psychotherapy development study. Opioid-abusing women who received this intervention along with standard treatment in their methadone programs (described below) were compared with those receiving standard treatment alone. The effectiveness of RPMG was ascertained via a battery of assessments administered to women on entry into treatment, immediately after the 24-week treatment, and 6 months after treatment completion.

Comparison group

Treatment in the methadone clinics entailed participation in weekly, 1-hr counseling groups in addition to pharmacological intervention (methadone) and periodic meetings with case managers to secure basic needs (e.g., housing, welfare benefits, legal aid). The weekly groups provided the standard drug counseling that is used in methadone clinics (see Mercer, Carpenter, Daley, Patterson, & Vopicelli, 1994; Zackon, McAuliffe, & Ch’ien, 1994). Typically led by certified drug counselors and nurses, these groups are generally focused on providing information on the unfolding of addictions, specific triggers and pitfalls of addictive behaviors, changing addictive life-styles, and developing coping strategies to avoid relapses. The counselor’s stance involves frequent use of didactic approaches and confrontation of behaviors viewed as counterproductive to the goal of abstinence (Mercer et al., 1994; Zackon et al., 1994).

Outcomes assessed

Constructs examined in this study were those specifically targeted by the RPMG intervention and included aspects of the women’s functioning as parents as well as facets of their own psychological functioning. Within the sphere of parenting, the single most criti-
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cal domain was the mother’s risk for maltreating behaviors, a construct that reflects a serious problem among addicted parents and is centrally targeted by the treatment. For a subset of participants in the study—mothers who had children over 7 years of age—the children’s perceptions of their mothers’ maltreating behaviors were also assessed.

In addition to risk for maltreatment, we also assessed two domains of positive parenting behaviors. These encompassed affective interactions (involvement and communication with the child) and instrumental interactions (limit setting, and promotion of child autonomy and independence).

In assessing the women’s psychosocial adjustment, critical domains in terms of relevance to RPMG were women’s overall feelings of satisfaction and support in their roles as mothers. We also obtained information on depressive symptoms, given the high comorbidity between depression and addiction among women. Both mothers’ and children’s reports of the children’s psychological functioning were sought, with the rationale that improvements in mothers’ adjustment might also be reflected in improved functioning among children in their care. Finally, data on the women’s drug use were also examined. Although substance use itself is not specifically targeted within RPMG, it has been suggested that addicted women’s improvements in psychosocial functioning can “carry over” to their substance use as well (e.g., Brunswick et al., 1991, 1992; Najavits et al., 1998).

Therapist ratings

In addition to testing the effectiveness of RPMG, a second objective in this study was to ascertain whether this intervention does in fact provide therapeutic components distinct from those in the drug-counseling treatment. A Therapist Adherence Rating Scale was thus developed, with items based on the defining features of each of the two interventions (RPMG and standard drug counseling). Objectives in developing this instrument were threefold: to obtain preliminary data on its psychometric properties, to determine the degree to which therapists delivering each intervention adhered to its defining characteristics, and to establish the discriminability of the two treatments (i.e., the degree to which they reflected distinct therapeutic ingredients).

In sum, this pilot study was conducted to obtain preliminary data on the effectiveness of RPMG, a therapeutic intervention designed around the scaffolding of risk and protective factors that are known to affect most heroin-addicted women. Treatment success was gauged in conceptually critical outcome domains pertaining to the mothers’ parenting as well as their own psychosocial adjustment. Assessments were conducted at the beginning of treatment, at the end of the 6-month intervention, and at a 6-month follow-up, and a therapist rating scale was used to establish discriminability of the two treatments involved in the study.

Methods

Overview of procedures

Heroin-addicted mothers interested in participating in parenting groups were recruited at three methadone clinics in New Haven, Connecticut. Recruitment occurred via several means including referrals from counselors, visits made by research assistants to ongoing drug-counseling groups and medication lines, and referrals from mothers who had already participated in the study. To be eligible for inclusion, mothers had to (a) have children less than 16 years of age and (b) report subjective experiences of problems with parenting. Exclusion criteria included conditions that would impede ability to benefit from group therapy such as cognitive deficits, psychotic thought processes, and suicidality.

All eligible mothers who expressed interest in the study met with a research assistant who explained the nature of the study as a randomized clinical trial. Initial assessments were scheduled with those who agreed to participate, and mothers were randomized to either

2. Baseline assessment indicated that all mothers who reported subjective distress in parenting did in fact reflect problems (e.g., in terms of clinical cutoff scores) on one or more domains measured.
the RPMG or comparison condition. As noted previously, the RPMG condition entailed weekly RPMG groups in addition to standard treatment at the clinic, whereas in the comparison condition mothers received standard treatment alone. To compensate families for time spent in assessments, a staggered reimbursement schedule was used, such that mothers and children were paid, respectively, $15 and $5 for baseline assessments, $30 and $10 on treatment completion, and $50 and $15 at the 6-month follow-up assessments.

Each 24-week intervention was co-led by a clinical psychologist and a drug counselor from the clinic. In total, five complete RPMG interventions were conducted by two psychologists and five drug counselors. Mothers enrolled in groups as openings occurred. Prior to beginning their groups, all therapists delivering the RPMG treatment received training that involved discussions on underlying theory and specific therapeutic skills, review of session videotapes, and an overview of the therapist manual contents. All RPMG sessions were videotaped and therapists were supervised on a weekly basis.

**Sample**

A total of 61 heroin-addicted mothers expressed interest in the study. As this was a psychotherapy development study and we were uncertain of the power of the new RPMG intervention to retain patients, we sought to oversample within the RPMG group and randomly assigned two patients on average to RPMG for every one assigned to the comparison group. Thus, a total of 37 mothers were enrolled in RPMG and 24 in the comparison condition. At any given time, the number of mothers enrolled in RPMG groups ranged from 4 to 8.

Of the 37 mothers randomized to RPMG, 32 completed treatment, yielding an 86% retention rate. Two of the 5 mothers who left treatment were transferred to different clinics, 1 obtained full-time employment, 1 moved to a different city, and 1 left for reasons unknown. Of the 24 mothers in the drug-counseling groups (mandated by the clinics for all patients to remain in the methadone programs), 20 completed treatment, yielding an 83% retention rate. Of the 4 mothers who dropped out, 1 was transferred to a different clinic, 1 left due to a family illness, and 2 left for unknown reasons.

At the time of their 6-month follow-up assessments, we were able to locate a total of 47 women. These included 28 of the 32 RPMG treatment completers and 19 of the 20 comparison treatment completers.

Demographic characteristics of the sample are summarized in Table 1. As indicated, mothers in the sample were primarily from

<table>
<thead>
<tr>
<th>Marital status: Single</th>
<th>RPMG</th>
<th>DC</th>
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<tbody>
<tr>
<td>Caucasian</td>
<td>78</td>
<td>65</td>
</tr>
<tr>
<td>African American</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>Hispanic</td>
<td>12</td>
<td>5</td>
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</table>

<table>
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<tr>
<th>Target children: Age</th>
<th>RPMG</th>
<th>DC</th>
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<tr>
<td>Less than 2 years</td>
<td>28</td>
<td>15</td>
</tr>
<tr>
<td>2–5 years</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>6–12 years</td>
<td>41</td>
<td>45</td>
</tr>
<tr>
<td>13–16 years</td>
<td>28</td>
<td>35</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Female target children</th>
<th>RPMG</th>
<th>DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>56</td>
<td>44</td>
<td></td>
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</table>

Note: The two groups did not differ significantly on any of these demographic indices.

*Mothers who received RPMG plus standard drug counseling.

*Mothers who received drug counseling alone.

*Children about whom mothers expressed greatest concern.

*Corresponds to Class IV: second-to-lowest class in Hollingshead’s five-class hierarchy of social status (Hollingshead & Redlich, 1958).

3. This was achieved by adjusting the randomization odds such that subjects had a two-thirds chance of being assigned to RPMG.

4. Treatment completers were considered those who continued to attend throughout the 24 weeks, missing no more than two consecutive sessions and attending at least half of all group meetings.
Caucasian backgrounds and low socioeconomic strata.

Each participant was asked to identify one of her children about whom she was most concerned, and, as noted earlier, identified children of 7 years and older were brought in to complete assessments whenever possible. Of the 52 mothers who completed the post-treatment assessments, 18 had children younger than 7 years of age, and 10 were unable to bring their children to the clinic at both posttreatment and follow-up. Thus, post-treatment and follow-up assessments were each obtained from a total of 24 children.

Measures

Parenting. The Parental Acceptance/Rejection Questionnaire (PARQ; Rohner, 1991), a 60-item measure rated on a 4-point scale, was used to assess maltreatment in the mother–child relationship. The PARQ yields a composite Maltreatment score comprised of four subscales: Aggression/Hostility, Neglect/Indifference, Undifferentiated Rejection, and low expressed Warmth/Acceptance. Parallel versions of the PARQ assess respectively the mothers’ and children’s perceptions of maternal behaviors. Adequate psychometric properties have been documented for the PARQ (Rohner, 1991). In this sample, the Cronbach’s alpha coefficients for the four subscales ranged between .72 and .89 (median .85) for the mothers and between .72 and .94 (median .88) for the children.

The Parent–Child Relationship Inventory (PCRI; Gerard, 1994), a 78-item measure rated on a 4-point scale, was used to assess the mothers’ reports of positive maternal behaviors. The PCRI consists of six subscales, including Communication, Involvement, Limit Setting, Autonomy, Satisfaction, and Support. Two of these subscales were used to measure mothers’ affective interactions—that is, Communication (capacity to talk and empathize with children) and Involvement (expressed interest in children’s activities). Instrumental interactions were assessed based on the Limit Setting (ability to provide appropriate discipline) and Autonomy (ability to promote a child’s independence) subscales. Adequate psychometric properties have been established for the PCRI (Gerard, 1994), and for this sample of mothers Cronbach’s alpha coefficients for the Communication, Involvement, Limit Setting, and Autonomy subscales ranged between .61 and .80 with a median of .77.

Mothers’ psychosocial adjustment. Mothers’ overall levels of satisfaction with their parenting roles, as well as the degree to which they felt supported in their roles as parents, were assessed via the Satisfaction (enjoyment derived from parenting) and Support (perceived emotional and practical support) subscales from the PCRI. Internal consistency coefficients in this sample were .83 and .64. The 13-item short form for the Beck Depression Inventory (BDI; Beck & Beck, 1972), which has well-documented psychometric properties and concurrent validity with the long form (Gould, 1982), served as the measure of depression. The alpha coefficient in this sample was .89.

Child’s psychosocial adjustment. Children’s psychosocial adjustment levels were assessed via the Behavioral Assessment System for Children (BASC; Reynolds & Kamphaus, 1992), with the Parent Rating Scale (PRS) administered to the mothers and the Self-Report Scale (SRP) to their children. Separate PRS forms are available for different age groups of children: the Preschool (ages 4–5 years), Child (ages 6–11 years) and Adolescent (ages 12–18 years) versions, with 131, 138, and 126 items, respectively, all rated on 4-point scales. The SRP Child (ages 8–11 years) and Adolescent (ages 12–18 years) forms have 152 and 186 items, respectively, each rated on a 2-point (true/false) scale. Composite subscale scores from each BASC form served as measures of children’s adaptation—that is, Internalizing and Externalizing scores from the PRS, and scores on Clinical and School Maladjustment, as well as on Personal Adjustment (encompassing interpersonal relations, self-reliance, and self-esteem) from the SRP. Excellent psychometric properties for the BASC have been documented (Reynolds & Kamphaus, 1992). Within this sample, Cronbach’s alpha coefficients for component PRS
subscales ranged between .80 and .93 (median .86) and between .64 and .92 (median .86) for the SRP subscales.

Substance abuse. Computerized records at the women’s methadone clinics were examined to obtain results of random urine toxicology screens (typically conducted at least twice a month) for substance use.

Results

Data reduction and descriptive data

One of the instruments used in this study yields a composite variable combining subscale scores (i.e., maltreatment risk from the PARQ\(^5\)). To avoid Type I errors in subsequent analyses, we also examined the value of combining subdomains from other instruments that were strongly interrelated. Simple correlations revealed that high conceptual and empirical overlap occurred in two cases (r = .60 for each pair): the Internalizing and Externalizing composites from the BASC-PRS, and the Involvement and Communication subscales from the PCRI. These pairs of scores were thus combined into composites labeled Child Maladjustment and Affective Interactions, respectively, for further analyses.

Means and standard deviations on all outcome variables measured at baseline are presented in Table 2, separately for women enrolled in RPMG and those receiving only drug counseling (henceforth referred to as DC). Correlations among all outcome variables are presented in Table 3.

Characteristics of dropouts

To detect potential differences between treatment completers and those who left prior to completion, we conducted \(t\) tests on all baseline measures for each condition. There were no significant differences between groups within the RPMG condition. Within the DC condition, significant differences favoring the dropouts occurred in three of the seven outcome domains (affective interaction, limit setting, and parental support). These results must be interpreted with caution, however, due to the low number of mothers who left treatment (\(n = 4\)).

Analyses of covariance on central outcomes

Analyses of covariance (ANCOVAs) were conducted to examine outcomes among the mothers receiving RPMG versus mothers receiving DC alone across parenting and psychosocial domains. Repeated measures analyses of variance were considered inappropriate because preliminary analyses showed that, despite randomization to treatment, RPMG and drug-counseling groups significantly differed on several baseline measures (a common occurrence in small to moderate sample sizes; see Cohen & Cohen, 1983; Cook & Campbell, 1979; Kazdin, 1998). Prior to conducting the ANCOVAs, the presence of Treatment \(\times\) Covariate interactions was ruled out. Separate ANCOVAs were conducted at the end of treatment and follow-up because the latter involved a smaller sample size.

Because the assessments focused explicitly on RPMG treatment targets and we predicted that mothers receiving this intervention would show improvements on these, we used a one-tailed significance test (see Kazdin, 1998). In addition, an effect size (\(d\)) of approximately .40 or greater was considered to reflect meaningful differences in functioning. Cohen (1988) has noted that even in the absence of statistical significance, effect sizes (\(d\)) approximating .40 represent moderate between-group differences and those approaching .80 represent substantial differences.

Results of the analyses of covariance are presented in Table 4. In this table, we present mean scores at posttreatment and follow-up, which have been adjusted for baseline values in each treatment condition (RPMG + DC, vs. DC alone). Thus, values indicate how well the groups were each doing at posttreatment and follow-up, with means adjusted for baseline differences.

At the end of the treatment period, RPMG mothers displayed significantly lower maltreatment risk scores than DC mothers based on the PARQ domains.

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\(^5\) The four PARQ domains were in fact highly correlated (median \(r = .67\) for mothers and \(r = .66\) for children).
### Table 2. Means and standard deviations on parenting and psychosocial adjustment variables: Baseline assessments

<table>
<thead>
<tr>
<th></th>
<th>RPMG(^a)</th>
<th>DC(^b)</th>
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<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>SD</td>
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<tr>
<td>Parenting</td>
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<tr>
<td>Mothers re: self</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maltreatment risk(^c)</td>
<td>97.8</td>
<td>21.2</td>
</tr>
<tr>
<td>Affective interaction(^d)</td>
<td>74.2</td>
<td>8.2</td>
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<tr>
<td>Instrumental interaction</td>
<td></td>
<td></td>
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<tr>
<td>Limit setting</td>
<td>46.3</td>
<td>10.1</td>
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<tr>
<td>Autonomy</td>
<td>40.6</td>
<td>8.3</td>
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<tr>
<td>Children re: mother</td>
<td></td>
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<tr>
<td>Maltreatment risk(^c)</td>
<td>106.2</td>
<td>27.0</td>
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<tr>
<td>Psychosocial adjustment</td>
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<tr>
<td>Mothers re: self</td>
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<tr>
<td>Parenting satisfaction</td>
<td>49.0</td>
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<tr>
<td>Parenting support</td>
<td>42.3</td>
<td>10.1</td>
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<td>Depressive symptoms</td>
<td>9.6</td>
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<tr>
<td>Mothers re: child</td>
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<tr>
<td>Child maladjustment(^e)</td>
<td>326.3</td>
<td>64.1</td>
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<td>Children re: self</td>
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<tr>
<td>Clinical maladjustment</td>
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<td>7.9</td>
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<td>8.2</td>
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<tr>
<td>School maladjustment</td>
<td>46.9</td>
<td>6.0</td>
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*Note: n = 52 mothers and 24 children. Scores that are in standardized form (T scores, mean 50) are italicized.*

\(^a\) Mothers who received RPMG plus standard drug counseling.

\(^b\) Mothers who received drug counseling alone.

\(^c\) Derived from PARQ subscales.

\(^d\) Derived from PCRI Involvement and Communication subscales.

\(^e\) Derived from BASC Internalizing and Externalizing subscales.

### Table 3. Intercorrelations among outcome variables: Baseline assessments

<table>
<thead>
<tr>
<th>Subscales</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<th>11</th>
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<tbody>
<tr>
<td>1. Maltreatment risk—M(^*)</td>
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<tr>
<td>2. Maltreatment risk—C(^l)</td>
<td>.31</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Affective interactions—M(^b)</td>
<td>-.42**</td>
<td>-.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Limit setting—M</td>
<td>-.49**</td>
<td>-.03</td>
<td>.45**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Autonomy—M</td>
<td>-.16</td>
<td>.22</td>
<td>-.05</td>
<td>.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Parenting satisfaction—M</td>
<td>-.56**</td>
<td>-.15</td>
<td>.50**</td>
<td>.56**</td>
<td>.23†</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7. Parenting support—M</td>
<td>-.14</td>
<td>-.19</td>
<td>.08</td>
<td>.40**</td>
<td>-.12</td>
<td>.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Depressive symptoms—M</td>
<td>-.01</td>
<td>.10</td>
<td>-.08</td>
<td>-.14</td>
<td>.31*</td>
<td>.02</td>
<td>-.47**</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Child maladjustment—M(^e)</td>
<td>.20</td>
<td>.15</td>
<td>-.19</td>
<td>-.45**</td>
<td>.10</td>
<td>.04</td>
<td>-.19</td>
<td>.19</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Clinical maladjustment—C</td>
<td>.24</td>
<td>.54**</td>
<td>-.35†</td>
<td>-.33†</td>
<td>-.09</td>
<td>-.27</td>
<td>-.29</td>
<td>.10</td>
<td>.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Personal adjustment—C</td>
<td>-.24</td>
<td>-.60**</td>
<td>-.60**</td>
<td>.22</td>
<td>-.09</td>
<td>.25</td>
<td>.16</td>
<td>-.04</td>
<td>-.31</td>
<td>-.51**</td>
<td></td>
</tr>
<tr>
<td>12. School maladjustment—C</td>
<td>.02</td>
<td>.26</td>
<td>-.44*</td>
<td>-.21</td>
<td>-.10</td>
<td>-.07</td>
<td>-.16</td>
<td>.24</td>
<td>.14</td>
<td>.53**</td>
<td>-.59**</td>
</tr>
</tbody>
</table>

\(^*\) Derived from PARQ subscales: M, mother report; C, child report.

\(^l\) Derived from PCRI Involvement and Communication subscales.

\(^e\) Derived from BASC Internalizing and Externalizing subscales.

\(p < .10\), \(^*p < .05\), \(^**p < .01\).
Table 4. Analyses of covariance for posttreatment and follow-up outcomes

<table>
<thead>
<tr>
<th></th>
<th>Posttreatment</th>
<th></th>
<th>Follow-Up</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adjusted Means</td>
<td>Effect Size</td>
<td>Adjusted Means</td>
<td>Effect Size</td>
</tr>
<tr>
<td></td>
<td>RPMG</td>
<td>DC</td>
<td>F Ratio</td>
<td>RPMG</td>
</tr>
<tr>
<td>Parenting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mothers re: self</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maltreatment risk</td>
<td>94.9</td>
<td>107.0</td>
<td>3.77*</td>
<td>.54</td>
</tr>
<tr>
<td>Affective interaction</td>
<td>77.4</td>
<td>70.4</td>
<td>11.66***</td>
<td>.94</td>
</tr>
<tr>
<td>Instrumental interaction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limit setting</td>
<td>46.4</td>
<td>47.0</td>
<td>.08</td>
<td>.08</td>
</tr>
<tr>
<td>Autonomy</td>
<td>39.5</td>
<td>40.5</td>
<td>.21</td>
<td>.13</td>
</tr>
<tr>
<td>Children re: mother</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maltreatment risk</td>
<td>91.9</td>
<td>108.0</td>
<td>4.62*</td>
<td>.88</td>
</tr>
<tr>
<td>Psychosocial adjustment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mothers re: self</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parenting satisfaction</td>
<td>50.5</td>
<td>46.0</td>
<td>3.06*</td>
<td>.49</td>
</tr>
<tr>
<td>Parenting support</td>
<td>44.1</td>
<td>44.2</td>
<td>.00</td>
<td>.00</td>
</tr>
<tr>
<td>Depression</td>
<td>6.7</td>
<td>8.8</td>
<td>1.65†</td>
<td>.36</td>
</tr>
<tr>
<td>Children re: self</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child maladjustment</td>
<td>303.6</td>
<td>321.4</td>
<td>.81</td>
<td>.29</td>
</tr>
<tr>
<td>Clinical maladjustment</td>
<td>43.6</td>
<td>45.1</td>
<td>.30</td>
<td>.22</td>
</tr>
<tr>
<td>Personal adjustment</td>
<td>51.0</td>
<td>46.5</td>
<td>1.66†</td>
<td>.53</td>
</tr>
<tr>
<td>School maladjustment</td>
<td>47.3</td>
<td>45.3</td>
<td>.29</td>
<td>.22</td>
</tr>
</tbody>
</table>

Note: n = 52 mothers, 24 children at posttreatment; 47 mothers and 24 children at follow-up. All means in italics represent T scores (mean 50).

*Effect size (d) of .20 is considered small, .40 moderate, and .80 large (Cohen, 1988).

aDerived from PARQ subscales.
bDerived from PCRI Involvement and Communication subscales.
cDerived from BASC Internalizing and Externalizing subscales.
dDerived from BASS Internalizing and Externalizing subscales.

Finally, although not significantly different, small to moderate effect sizes at posttreatment and follow-up indicated that RPMG mothers viewed their children’s maladjustment as somewhat less severe than the DC mothers (d = .29 and .45, respectively). On children’s psychosocial adjustment self-re-
ports, effect sizes ranged from .22 to .53, again demonstrating small to moderate effects favoring the children of RPMG mothers.

Analyses involving other outcome variables

We did not consider retention in treatment to be a valid outcome variable in this pilot study because of different attendance requirements in each condition: DC mothers were required by the clinics to attend all their counseling groups, whereas attendance in RPMG was entirely voluntary. Despite these varying requirements, we found comparable retention rates across the conditions, with 86% mothers completing RPMG and 83% remaining in their DC groups.

Treatment group differences in drug use over time were examined using a random-effects probit regression model. This analysis was considered most appropriate given the capacity to model data across multiple time points, even with incomplete data for some subjects (e.g., due to missed appointments) and uneven gaps between data points representing time intervals (see Hedeker & Mermelstein, 1996). Because the outcome variable was binary (presence vs. absence of drug during 1-month period), a random-intercept probit regression model was used and all analyses were run using MIXOR, an analysis program for mixed effects ordinal probit and logistical regression (Hedeker & Gibbons, 1996). For the 13 time points considered in the analyses (baseline and 12 subsequent 1-month intervals), data on average, were available for a total of 11 points among women in this sample.

Separate analyses were conducted for the use of opiates, the primary drug for which the women were in treatment, and for cocaine, commonly used among patients in methadone maintenance (Brooner, King, Kidorf, Schmidt, & Begelow, 1997; Kosten, Gawin, Kosten, & Rounsaville, 1992; Kreek, 1997). Results are displayed in Table 5. With opiate use as the outcome variable, significant results were obtained for the main effect of time ($z = 1.93, p < .05$) and for the Treatment Group $\times$ Time interaction ($z = 3.03, p < .01$). The latter finding, displayed graphically in Figure 1, indicated that the probability of opiate use over time decreased for the RPMG group while it increased for the DC group. With cocaine use as the dependent variable, the main effect of time was significant ($z = -2.29, p < .05$). The Treatment $\times$ Time interaction, however, was not significant; RPMG and drug-counseling mothers showed comparable decreases in probability of cocaine use over time.

Therapist adherence and treatment discriminability

In developing the Therapist Adherence Rating Scale, we identified a pool of 16 items at the outset which represented the essential therapeutic components of RPMG (12 items) and standard drug counseling (4 items). Detailed scoring instructions were developed for each of these items, along with illustrative examples. Using these materials, two raters, each experienced clinicians themselves and both unaware of the purposes of this research, were trained to rate videotaped therapists participating in the study on each item. The raters then independently observed fresh videotapes...
Table 5. Results of random-effect regression for opiate and cocaine use

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Estimate</th>
<th>SE</th>
<th>z</th>
<th>Estimate</th>
<th>SE</th>
<th>z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept (at Time 0)</td>
<td>−2.10</td>
<td>0.39</td>
<td>−5.37**</td>
<td>−1.60</td>
<td>0.26</td>
<td>−6.14**</td>
</tr>
<tr>
<td>Time (per 1 month)</td>
<td>0.06</td>
<td>0.03</td>
<td>1.93*</td>
<td>−0.08</td>
<td>0.04</td>
<td>−2.29*</td>
</tr>
<tr>
<td>Group (DC vs. RPMG)</td>
<td>0.43</td>
<td>0.46</td>
<td>.95</td>
<td>−0.43</td>
<td>0.29</td>
<td>−1.50</td>
</tr>
<tr>
<td>Group × Time</td>
<td>−0.12</td>
<td>0.04</td>
<td>3.03**</td>
<td>0.01</td>
<td>0.04</td>
<td>.25</td>
</tr>
</tbody>
</table>

Note: n = 50; no records were available for 2 of the 52 women in the sample.
*p < .05, one-tailed. **p < .01, one-tailed.

Table 6. Therapist adherence rating scale items

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPMG subscale</td>
<td></td>
</tr>
<tr>
<td>1. Warmth/interest</td>
<td>Nonverbal indication of therapist’s concern and interest</td>
</tr>
<tr>
<td>2. Empathic understanding</td>
<td>Accurate verbal reflection of affective experience</td>
</tr>
<tr>
<td>3. Foster insight</td>
<td>Exploratory approach to addressing problematic situation</td>
</tr>
<tr>
<td>4. Foster relational skills</td>
<td>Examine issues concerning interpersonal relationships</td>
</tr>
<tr>
<td>5. Foster parenting skills</td>
<td>Examine issues concerning parenting</td>
</tr>
<tr>
<td>6. Maintain focus</td>
<td>Maintain discussion focus on session topic</td>
</tr>
<tr>
<td>7. Paraphrase succinctly</td>
<td>Identify and clearly state core themes of discussion</td>
</tr>
<tr>
<td>8. Appropriate boundaries</td>
<td>Maintain structure, order, and professional stance</td>
</tr>
<tr>
<td>DC subscale</td>
<td></td>
</tr>
<tr>
<td>1. Expert stance</td>
<td>Therapist assumes expert role as an authority on all issues</td>
</tr>
<tr>
<td>2. Confrontational strategies</td>
<td>Direct/explicit questions and probes about drug use</td>
</tr>
<tr>
<td>3. Focus on abstinence</td>
<td>Maintain focus on abstinence goals and strategies</td>
</tr>
<tr>
<td>4. Focus on drug-free lifestyle</td>
<td>Maintain focus on substitute activities for drug use</td>
</tr>
</tbody>
</table>

of therapists conducting RPMG and DC sessions, rating each of the 16 items on a 5-point Likert scale, for the frequency and intensity with which each item was manifested. Over-all scores for each subscale were obtained by computing the ratio of total points scored on the Likert scale to the total number of points possible (60 for the RPMG scale, 20 for the DC scale) and then converting this ratio to one with a denominator of 10, to ease interpretation and comparison of scale scores.

Interclass correlations were calculated to represent interrater reliability, using the two-way formula (Shrout & Fleiss, 1979) and with raters considered to be fixed rather than random effects. These calculations were based on independent ratings provided by two raters, each of whom rated 10 therapy sessions. Of the 16 items originally selected for the scale, 4 had interclass correlations below .50 and were considered unreliable. The remaining 12 items comprised the final scale (Table 6).

To determine the internal consistency of the two subscales, Cronbach’s alphas were calculated for the RPMG and DC subscales.

Figure 1. Probability for opiate use by treatment group across time (n = 50).

7. Additional details on scoring procedures are available from the authors by request.
They were .93 and .80, respectively, indicating excellent internal consistency.

Once acceptable psychometric properties were ascertained, therapists participating in this study (two RPMG and four DC) were each rated on the Therapist Adherence Scale. The RPMG therapists rated were the two clinical psychologists who served as senior therapists in all RPMG groups, and the four drug counselors rated were those who conducted the majority of drug counseling sessions at the clinics. Approximately eight sessions of each RPMG therapist and three sessions of each DC clinician were randomly selected for observation and rating.

Therapist adherence and discriminability were determined by first calculating individual therapist mean scores on the RPMG and DC subscales, respectively, and then computing overall means for each group of therapists for each subscale. Substantial differences were found, with RPMG therapists and DC clinicians respectively obtaining means of 7.4 ($SD = .74$) and 2.9 ($SD = .76$) on the RPMG subscale and means of 4.4 ($SD = 1.1$) and 6.4 ($SD = 1.9$) on the DC subscale. Differences between both pairs of means were statistically significant, $F(1, 23) = 78.6$ and 39.0, respectively, $p < .0001$, indicating that therapists conducting the two treatments did in fact offer distinct therapeutic ingredients.

Summary

Results of this pilot study were promising in terms of both the potential effectiveness of RPMG and its apparent discriminability from standard drug-counseling interventions. As compared to mothers receiving standard drug counseling alone, those who received RPMG as a supplemental treatment fared more positively on most targeted parenting domains, as reported by the mothers as well as their children. In addition, data obtained via ratings of videotaped sessions indicate that the two interventions did differ substantively in terms of major therapeutic components.

Discussion

While addicted mothers’ parenting problems are typically viewed as both serious and intractable, results of this study suggest that supportive, developmentally informed group psychotherapy can foster women’s engagement in treatment and also potentially reduce maladaptive parenting across multiple domains. Moreover, the benefits of such psychotherapy can apparently “spill over” to result in reduced levels of substance use as well.

Among the most simple yet most encouraging results of this study was the 86% retention rate in the voluntary RPMG intervention. Whereas a range of sanctions were associated with the women’s failure to attend regular drug-counseling sessions at the methadone clinics, they faced no clinic-based repercussions if they were to drop out of RPMG. Yet four of every five women who enrolled initially did remain until treatment completion. These findings are in marked contrast with prior reports which have typically indicated dropout rates ranging between 35 and 50% for heroin-addicted women in substance-abuse treatment research (see Chang et al., 1992; Davis, 1994; Gainey, Catalano, Haggerty, & Hoppe, 1995; Ravndal & Vaglum, 1994; Stanton & Shadish, 1997).

The relatively low attrition rates in this study may partly reflect our use of a graduated schedule to reimburse participants, wherein mothers received incrementally higher payments for completing assessment packages as the study progressed. In addition, however, retention in the RPMG groups may have been promoted by the nurturing therapeutic environment provided. Throughout the study, mothers frequently referred to the supportive and nonconfrontational nature of the group as a primary incentive for their continued participation in groups.

In terms of targeted outcomes, participation in RPMG was associated with lower maltreatment risk as reported by both mothers and their children at posttreatment, as well as by maternal report at follow-up. The importance of these findings is underscored by the substantial evidence that (a) as a group, substance-abusing mothers—who often seriously lack emotional and financial supports—are at high risk for child maltreatment (Hawley & Disney, 1992) and (b) exposure to chronic maltreatment exacerbates children’s risks for
negative outcomes, with adaptation patterns showing increasing deterioration over time (Chaffin, Kelleher, & Hollenberg, 1996; Cicchetti & Lynch, 1995; Mayes & Bornstein, 1997).

Aside from reductions in maltreatment risk, RPMG mothers reported robust and sustained improvements in affective interactions with their children and in overall feelings of parental satisfaction at posttreatment. As amply documented in the child development literature (e.g., Bowlby, 1969; Cicchetti & Toth, 1997; Cicchetti, Toth, & Lynch, 1995), the absence of negative parental behaviors, such as those connoting neglect or rejection, is a critical though by no means sufficient condition for children’s long-term psychological health. Equally crucial is exposure to positive parenting, as might be reflected in mothers’ everyday expressions of interest in and empathy toward their children.

In contrast to the noteworthy improvements in maltreatment risk, affective interactions, and overall maternal satisfaction, mothers in both treatment conditions showed little change on both facets of instrumental parenting: limit setting and autonomy. While limit-setting scores fell within normal ranges, those on autonomy averaged a full standard deviation below normative values at baseline, treatment completion, as well as follow-up. The consistently low autonomy scores may, in some instances, reflect a high degree of maternal protectiveness toward children living in neighborhoods replete with crime and violence (Luthar, 1999). In addition, however, they might partially reflect mothers’ discomfort with separation from their children. It has been argued that given the dearth of personal supports in their everyday lives, many addicted women find it difficult to promote their children’s emotional independence (Levy & Rutter, 1992). In future work, it would be useful to examine more closely both the connotations and repercussions of the low autonomy that appears to characterize heroin-addicted mothers’ parenting styles.

**Patterns of drug use**

Notwithstanding that RPMG is a treatment designed for drug-abusing women, the major therapeutic components that define this treatment do not include strategies specifically targeting substance-use behaviors. The decision not to explicitly emphasize drug use was made early in the development of this intervention and was based on two factors. The first encompassed beliefs that drug-abusing women reflect a constellation of problems of which their addiction represents only one part (see Haller, Knisely, Dawson, & Schnoll, 1993; NCASA, 1996; Rounsaville & Kleber, 1986) and that their psychiatric and interpersonal difficulties warrant at least as much therapeutic attention as do problems of maintaining abstinence (Brooks & Tseng, 1995; Haller et al., 1993; Hawley, Halle, Drasin, & Thomas, 1995; Howard, Beckwith, Espinosa, & Tyler, 1995; Luthar, Cushing, et al., 1997; Mathias, 1997). Second, RPMG was designed for women already in treatment for drug use, and most drug-treatment programs focus heavily on substance use and abstinence with less attention to intrapsychic and interpersonal issues (Finkelstein, 1994; Luthar & Walsh, 1995; McMahon & Luthar, 1998; Osher, 1996). Our effort, therefore, has been to supplement the vital and concerted efforts made by drug-treatment clinics to promote abstinence by centrally targeting those domains of need that typically remain neglected in drug counseling.

Decisions in this regard are substantiated by our findings on reductions in RPMG mothers’ substance use levels. As compared to mothers receiving standard counseling alone, RPMG participants showed significantly greater improvements in opioid use as ascertained by highly reliable data sources: random urine checks conducted by the clinics. These findings lend strong support to arguments by Brunswick and colleagues (1991, 1992) that working with substance-abusing women on their interpersonal and psychological needs can have substantial spillover effects on their capacities to abstain from drug use over time.

**Caveats and limitations**

The absence of observational data on changes in mother–child interactions, recommended (though rarely used) in assessing parenting in-
terventions (see Catalano, Haggerty, Gainey, & Hoppe, 1997; Hawley & Disney, 1992; Mayes & Bornstein, 1995; Webster–Stratton, 1994, 1996; Webber–Stratton & Hammond, 1997), could be viewed as a limitation of this study. Such observations were logistically difficult here due to the wide age span of the mothers’ children—a deliberate decision in designing the intervention. Moreover, the absence of observational data must be weighed against evidence (albeit based on a small sample) that the children themselves reported significant changes in their mothers’ behaviors. Children’s own perceptions are arguably at least as relevant as those of “objective observers” in determining the overall quality of maternal–child interactions.

While several group differences were statistically nonsignificant—possibly due to the limited sample size—it should be noted that in comparison with other interventions for substance abusers, average RPMG effect sizes at posttreatment (.39) and follow-up (.32) compare favorably. In a meta-analysis of 83 randomized clinical trials conducted to assess the efficacy of psychosocial interventions, Feingold, Carroll, Johnson, and Rounsaville (1998) found a mean posttreatment effect size ($d$) of .23 across all interventions for treatment efficacy. Further analyses based on type of control group indicated that studies with “less potent” control groups (including “treatment as usual,” as in this study) yielded effect sizes averaging only .11—approximately one third those achieved for RPMG.

Although promising, results of this pilot study cannot be viewed as definitive for several other reasons. First, the RPMG therapists’ manual underwent revisions throughout the 3-year study, such that mothers who enrolled early in the study received treatments similar, but not identical, to later-enrolling participants. Second, we know little about the degree of variability in the treatment received by women in the comparison group, because drug-counseling sessions, unlike RPMG meetings, were not all videotaped in this pilot research. Third, the sample of this study is not necessarily representative of methadone clinic populations in general (as suggested, e.g., by the greater proportion of Caucasian than minority mothers among our participants). Finally, our results may partly reflect varying “doses” of treatment across conditions, as mothers in the RPMG groups received this intervention in addition to all standard treatment available to the comparison group mothers. Each of these problems has been considered in a new randomized clinical-trials study with a relatively large sample (currently ongoing), in which we seek to provide more rigorous empirical evidence of the effectiveness of RPMG for both maternal and child outcomes.

8. The decision to include mothers of children in a wide age range was guided by several considerations. First, most existing interventions for substance-abusing mothers target women with infants; mothers of children over 2 years represent a neglected group. Second, preventive interventions are critical not only for addicted mothers of young children but also for mothers of preteen or teen youth who are in a period of high risk for the onset of many deviant behaviors (see Luthar et al., 1998). Third, using a relatively wide age span of children allows mothers not only to gain a better understanding of their children’s current functioning but also to be prepared for the continuum of changes as their children grow older. Finally, among the most efficacious ways to influence the parenting behavior of opiate addicted mothers is via direct feedback and support of their peers (e.g., Stinchfield, Owen, & Winters, 1994), and including mothers of children encompassing a broad age span allows for exchange of a relatively wide range of parenting perspectives.

Conclusions

Developmental psychologists concerned with interventions and social policies have long accepted the value of focusing on the “whole child,” rather than on individual aspects of children’s functioning in isolation from others (Bronfenbrenner, 1986; Cowen, 1994; Zigler, 1998; Zigler & Trickett, 1978). In parallel fashion, future therapeutic efforts with addicted mothers must move toward increased focus on the “whole parent” and strive for greater balance, with attention to multiple serious adversities (as well as salient strengths), rather than remaining overwhelmingly focused on issues of addiction and relapse prevention alone. Without question, managing addiction is of critical importance for main-
taining gains in other spheres. However, there is a need for drug-treatment providers to give more consideration than has been conventionally accorded to the powerful intrapsychic and interpersonal stresses that heroin-using women contend with on an ongoing basis.

As future intervention approaches are expanded, therefore, it is critical that addicted mothers’ needs as women and as parents are explicitly considered in developing treatment plans. For individuals who attend substance-abuse clinics, access to mental health treatment within other service delivery systems is often seriously restricted by various factors including limited economic resources, lack of child care and transportation facilities, diverse institutional barriers, and, often, negative stereotyping by professionals with a limited understanding of drug abuse (McMahon & Luthar, 1998). If drug-abuse treatment providers were to provide more direct attention to these women’s psychological and parenting concerns, this could not only improve the mothers’ personal functioning—including refractory problems of substance abuse—but could also serve critical preventive functions for many of their highly vulnerable children over the long term.

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