

# Cognitive–Behavioral Therapy Versus Usual Clinical Care for Youth Depression: An Initial Test of Transportability to Community Clinics and Clinicians

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Community clinic therapists were randomized to (a) brief training and supervision in cognitive–behavioral therapy (CBT) for youth depression or (b) usual care (UC). The therapists treated 57 youths (56% girls), ages 8–15, of whom 33% were Caucasian, 26% were African American, and 26% were Latino/Latina. Most youths were from low-income families and all had *Diagnostic and Statistical Manual of Mental Disorders* (4th ed.; American Psychiatric Association, 1994) depressive disorders (plus multiple comorbidities). All youths were randomized to CBT or UC and treated until normal termination. Session coding showed more use of CBT by CBT therapists and more psychodynamic and family approaches by UC therapists. At posttreatment, depression symptom measures were at subclinical levels, and 75% of youths had no remaining depressive disorder, but CBT and UC groups did not differ on these outcomes. However, compared with UC, CBT was (a) briefer (24 vs. 39 weeks), (b) superior in parent-rated therapeutic alliance, (c) less likely to require additional services (including all psychotropics combined and depression medication in particular), and (d) less costly. The findings showed advantages for CBT in parent engagement, reduced use of medication and other services, overall cost, and possibly speed of improvement—a hypothesis that warrants testing in future research.

*Keywords:* depression, children, adolescents, youth, cognitive–behavioral therapy

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Advocates for evidence-based treatments (EBTs; e.g., National Advisory Mental Health Council Workgroup on Child and Adolescent Mental Health Intervention and Deployment, 2001; Office of the Surgeon General, 1999, 2004; President's New Freedom Commission on Mental Health, 2003) have made a case for transporting these treatments to a broad array of everyday practice contexts. This perspective may make sense, in principle. However, before major resources are devoted to large-scale dissemination, it may be wise to study the implementation process, to learn what steps are needed to transport these treatments effectively.

As several researchers have suggested (e.g., Southam-Gerow, Chorpita, Miller, & Gleacher, 2008; Southam-Gerow, Weisz, & Kendall, 2003; Weisz, 2004; Weisz, Donenberg, Han, & Weiss, 1995), there are many differences between the contexts in which EBTs are usually tested and the contexts of everyday clinical care. Bridging all of these differences may not be a simple process. This point is made clear in a recent review of research on the implementation of tested programs in practice settings (Fixsen, Naoom, Blase, Friedman, & Wallace, 2005). Fixsen et al. reported that many implementation efforts have not succeeded, despite evidence that the programs have worked well within controlled trials; by contrast, a few studies have shown successful implementation in practice settings when extensive, multilevel procedures were used, including careful selection of the "implementers," thorough training, and active coaching or supervision.

The complex array of findings reviewed by Fixsen et al. (2005) suggests that extensive research will be needed to understand what implementation procedures work in any particular domain (see also Southam-Gerow, Austin, & Marder, 2008). The present study represents one step toward such a body of research, focused on a specific form of treatment for depression in children and adolescents (referred to as *youths* in this article), as implemented in clinical practice.

The need for this research is underscored by questions about whether skilled and effective use of EBTs can be achieved in the limited time available to many practitioners. Many of the most skilled users of EBTs have built their skills over several years of graduate or postdoctoral training. Such training often occurs in specialized training clinics that focus on one treatment protocol, or a few related ones, for a narrow range of clients, and with faculty mentors and peers all concentrating on a similar skill set (see, e.g., Southam-Gerow & Kendall, 2006). Such extended, intensive, and highly focused skill building is not likely to be feasible for most practitioners, given their mandate to serve a broad array of clients and given the time constraints, work demands, and productivity pressures of everyday clinical care. Similarly, the procedures used in many clinical trials—including selection of only the most talented therapists, extensive training, skill building through practice cases, and assignment of study cases only after high skill levels are achieved in practice cases—may not be feasible in practice contexts, given the service mandates and financial and time constraints under which clinics and clinicians must now operate.

These implementation challenges are quite relevant to cognitive-behavioral therapy (CBT) for depression. CBT is widely recommended for youth depression by professional groups (e.g., American Academy of Child & Adolescent Psychiatry Work Group on Quality Issues, 1998) and has the most extensively replicated success in clinical trials for youth depression (see Weisz, McCarty, & Valeri, 2006). However, preparing for a CBT

trial often involves extensive therapist preparation. For example, CBT therapists in a randomized control trial (RCT) by Brent et al. (1997) were required (a) to have 6 months of intensive training on the specific CBT treatment manual, (b) to "treat two cases in adherence to the treatment model before becoming a therapist for the study" (p. 878), and (c) after passing requirements a and b, to receive 1 hr of group and 1 hr of individual supervision per week throughout their work as therapists. Because such an extensive time commitment would not be feasible for most clinicians employed in everyday practice, an important implementation question arises: Can clinicians employed in practice settings learn sufficient skills in CBT, in the time that is available to them, to be successful in treating youth depression?

Two recent studies suggest that it may be difficult to train practitioners to use CBT in ways that outperform the usual interventions provided in everyday youth mental health care. In one study, Clarke et al. (2002) compared usual care (UC) for youth depression in the Kaiser Permanente health maintenance organization (HMO) (e.g., outpatient visits plus psychotropic medication) with UC plus CBT. The depressed offspring of depressed parents were treated with the Coping With Depression Course for Adolescents (CWD-A), a CBT protocol that had shown beneficial effects in two previous efficacy trials. Therapists received initial training in the CWD-A followed by supervision every other week. At the end of the study, "the authors were unable to detect any significant advantage of the CBT program over usual care" (Clarke et al., 2002, p. 305).

In another study, Kerfoot, Harrington, Rogers, and Verduyn (2004) randomly assigned social workers and other community support workers to receive training and supervision in CBT or to continue their UC procedures, with both groups treating depressed adolescents. At the end of treatment, the adolescents in both groups had shown similar reductions on depression symptom self-report measures, with no significant difference evident between CBT and UC. Kerfoot et al. (2004) concluded from these findings that "training community-based social workers in [CBT] is neither practical nor effective in improving the outcomes of their clients" (p. 92).

These important studies highlight the challenge of moving CBT into community service settings, particularly when the task includes training professionals in their first-time use of CBT and when CBT is pitted against UC in which professionals use familiar procedures and do their best to help their young clients improve. The research to date has taken valuable steps toward investigating whether there are training and supervision procedures through which CBT might produce more beneficial effects than UC. As a next step, we set out (a) to use a more complete effectiveness design than has been tried thus far, (b) to use a fully randomized experimental procedure, and (c) to avoid built-in dose differences that might favor CBT. Given these goals, our study design differed from Clarke et al.'s (2002) and Kerfoot et al.'s (2004) studies in significant ways.

## Study Design

### *More Complete Effectiveness Design*

Our study involved clinically representative treatment settings, youths, and therapists. All sessions took place within routine

outpatient care in public mental health clinics; we included only youths who had been referred through normal pathways, contacting them only after their families had called the clinics to seek services; and we included only clinicians who were already employed as therapists in those clinics. By contrast, the setting for CBT in the Clarke et al. (2002) study was a research center, with UC conducted in HMO offices, and in Kerfoot et al. (2004), both CBT and UC were performed in various community social service settings. Youths in the Clarke et al. study were recruited from an HMO database, and in the Kerfoot et al. investigation, study therapists recruited their own cases. Clinicians in Clarke et al. were research center staff for CBT and HMO clinical staff for UC; clinicians in Kerfoot et al. were social workers and community support workers.

#### *Balanced Comparison, With Double Randomization*

Our experimental design was structured to create as fair and balanced a comparison as possible between CBT and UC; we randomized therapists to CBT or UC, then randomized youths to CBT or UC. By contrast, Clarke et al. (2002) randomized youths but not therapists, and Kerfoot et al. (2004) randomized social workers to CBT or UC, but youths were then recruited by the therapists, precluding youth randomization.

#### *No Built-in Dose Differences*

We also sought to avoid built-in dose differences that would favor CBT over UC (we tracked treatment duration but left it free to vary). By contrast, the CBT condition in Clarke et al. (2002) consisted of CBT plus usual HMO services (including medication), a design that offers advantages but does create a built-in dose difference favoring CBT over UC.

#### *Practice-Oriented Skill-Building Model*

To minimize conflict with clinic productivity rules, we limited initial CBT training to 1 day and stressed learning through weekly case supervision. By contrast, Clarke et al. (2002) and Kerfoot et al. (2004) mainly emphasized initial training: 30 hr in Clarke et al., 3 days in Kerfoot et al. After training, Clarke et al. provided supervision every other week for 30 min in Year 1 and 15 min in Year 2, with most supervision focused on attendance issues (personal communication, G. Clarke, March 23, 2007). After their training period, Kerfoot et al. offered voluntary supervision but had poor clinician participation (median number of supervision meetings attended was three; almost a third of therapists attended none or one).

The CBT program in the present study consisted of Primary and Secondary Control Enhancement Training (PASCET; Weisz, Thurber, Sweeney, Proffitt, & LeGagnoux, 1997). A previous RCT (Weisz et al., 1997) had shown beneficial effects of PASCET with elementary to middle school youths who had elevated depression symptoms, and PASCET was especially appropriate for this study because (a) it included the most common core elements of CBT [e.g., activity selection, cognitive restructuring, relaxation training], (b) it was designed to fit the relatively broad age range needed in this study, (c) it was designed to accommodate the variations in pace and session attendance often seen in outpatient

care, and (d) its focus on surveying multiple depression coping skills and then identifying and practicing a few "best fit" skills appeared to fit the array of different forms of youth depression seen in outpatient settings (see, e.g., Weiss et al., 1991).

To encompass outcomes across a relatively broad spectrum, we built on the assessment model of Hoagwood, Jensen, Petti, and Burns (1996), examining CBT versus UC group differences on clinical outcomes, consumer response (i.e., therapeutic alliance), treatment duration, use of additional clinical services beyond psychotherapy, and cost. Our study appears to be the first trial of CBT for youth depression to encompass all three major effectiveness trial dimensions (i.e., clinically representative treatment setting, referred youths, and psychotherapists); the rigor of a fully randomized design (i.e., with both therapists and youths randomized to CBT or UC); and broad assessment encompassing clinical process, clinical outcome, and cost. We tested the hypotheses that CBT would prove superior to UC on clinical outcomes and therapeutic alliance, with lower cost and less need for additional services than UC. The primary study outcome was depression symptomatology, assessed with youth- and parent-report measures.

## Method

### *Participants: Youths and Therapists*

*Youth sample.* The sample included 57 youths, 56% girls, ages 8–15 years ( $M = 11.77$ ,  $SD = 2.14$ ); 33% were Caucasian, 26% African American, 26% Latino/Latina, 11% "mixed/other," and 4% not reporting ethnicity. Some 34% of the families in our sample reported yearly income at or below \$15,000; 32% between \$15,000 and \$30,000; 14% between \$30,000 and \$45,000; 12% between \$45,000 and \$60,000; and 8% above \$60,000 (seven families did not report income). Primary diagnoses (based on the Diagnostic Interview Schedule for Children Version 4 [DISC 4.0], combined parent and youth report; Shaffer, Fisher, Lucas, Dulcan, & Schwab-Stone, 2000) were 56% major depressive disorder (MDD), 12% dysthymic disorder (DD), and 32% minor depressive disorder (MinDD; American Psychiatric Association, 1994). Comorbidity with other disorders was high (see Table 1). For example, 14% of the sample met criteria for conduct disorder, 60% for oppositional defiant disorder, 47% for attention deficit hyperactivity disorder, 19% for generalized anxiety disorder, and 39% for separation anxiety disorder. There were no significant condition differences on any of these variables or on number of disruptive, anxiety, or total comorbid disorders (all  $ps > .48$ ).

*Therapist characteristics.* Therapists ( $n = 26$  in CBT,  $n = 28$  in UC) averaged 32.0 years of age ( $SD = 7.02$ , range = 25–55 years), and 75% were female; among the therapists, 43% were Caucasian, 34% were Latino/Latina, 13% were Asian/Pacific, 6% were of mixed ethnicity, and 4% were African American. Some 22% were social workers, 14% were doctoral-level psychologists, 56% had a master's degree in psychology, and 8% were other master's-level professionals (e.g., marriage and family). Therapists averaged 4.30 ( $SD = 1.70$ ) years of training and 2.40 ( $SD = 3.50$ ) years of additional professional experience prior to the study. Previous research in community samples (e.g., Weersing, Weisz, & Donenberg, 2002) has reported similar clinician professional and demographic characteristics. CBT and UC therapists did not differ significantly on any of these characteristics, suggesting successful randomization.

Table 1  
*Pretreatment Characteristics of Primary and Secondary Control Enhancement Training (PASCET) and Usual Care (UC) Groups*

Measure	UC			PASCET			<i>t</i>	<i>df</i>	<i>p</i>	Cohen's <i>d</i>
	<i>M</i>	<i>SD</i>	<i>n</i>	<i>M</i>	<i>SD</i>	<i>n</i>				
Youth report										
CDI	11.29	7.93	24	10.88	7.91	32	0.20	54	0.85	0.05
DISC-C MDD symptom count	11.33	4.63	24	10.44	5.27	32	0.66	54	0.51	0.17
Depression factor score	0.17	1.65	24	-0.05	0.84	32	0.64	54	0.53	0.14
Parent report										
CDI-P	18.56	5.92	25	17.32	7.14	31	0.70	54	0.49	0.18
CBCL Anxious/Depressed	68.18	10.33	22	68.68	10.10	31	-0.17	51	0.86	-0.05
CBCL Withdrawn	70.59	7.08	22	68.58	10.12	31	0.80	51	0.43	0.22
DISC-P MDD symptom count	11.54	3.44	24	10.56	3.54	32	1.04	54	0.30	0.28
Depression factor score	0.48	2.96	25	-0.06	0.82	32	0.86	55	0.39	0.23
CBCL Externalizing	67.32	9.38	22	65.5	10.82	31	0.63	51	0.53	0.17
DISC-P comorbid disruptive disorder diagnoses	1.24	0.97	25	1.19	1.03	32	0.20	55	0.84	0.05
ETOS	50.20	6.34	25	53.66	7.11	32	-1.60	55	0.12	-0.50
Combined report										
DISC total diagnoses	2.76	1.71	25	2.66	1.43	32	0.25	55	0.80	0.07
Demographics										
Youth age	11.48	2.37	25	11.74	2.03	31	-0.45	54	0.66	0.12

Note. CDI = Children's Depression Inventory; DISC-C = Diagnostic Interview Schedule for Children—Child Report; MDD = major depressive disorder; CDI-P = Children's Depression Inventory—Parent Report; CBCL = Child Behavior Checklist Anxious/Depressed Scale; DISC-P = Diagnostic Interview Schedule for Children—Parent Report; ETOS = Expectations of Therapy Outcome Scale; DISC = Diagnostic Interview Schedule for Children.

### Settings and Participant Contact Procedures

Participants were routine referrals to seven public urban community mental health clinics within the most populous U.S. county (U.S. Department of Commerce, 2003). Enrollment began in 1998 and ended in 2003, with assessments ending in 2005. If families' initial request for services included any mention of internalizing symptoms, and youth age was 8–15 years, families were told about the study. Given permission, a phone screen followed. Those who passed the phone screen (i.e., positive for any relevant symptom, no signs of psychotic or developmental disorders) were invited to a project interview (see below). If the interview identified a diagnosis of MDD, DD, or MinDD, we then assessed treatment priority (see below) to determine whether to invite the family to participate.<sup>1</sup> Figure 1 shows the flow of enrollment following the Consort format. Of the 268 youths assessed for eligibility, 185 did not meet study criteria<sup>2</sup>; 26 who were eligible did not enroll, most often because the family decided not to start therapy at the clinic.

**Determining treatment priority/study eligibility.** To determine treatment priority, we obtained DISC 4.0 (Shaffer et al., 2000) *DSM-IV* (American Psychiatric Association, 1994) diagnoses, disorder symptom counts, and symptom-report measures (described below) separately from parents and youths. Parents and youths also reported their top three reasons for seeking services (parent examples: "she is unhappy all the time," "dark clouds that she goes through"; youth examples: "bad mood," "I'm sad") and gave a severity rating (0–10 scale) associated with each of these. These diagnostic, symptom, referral problem, and severity data were discussed by project staff, senior clinic staff, and family; if it was agreed that the depressive disorder had treatment priority, the youth was invited to enroll in the trial.<sup>3</sup>

**Medication use.** Medication decisions followed usual clinic procedures, guided by clinic staff psychiatrists. This fit our goal of

adhering to usual clinic procedures wherever possible, and, in any event, clinic staff members were unwilling to relinquish control over medication. We recorded medication use and included the data in analyses (as discussed later).

### Assessment Personnel and Schedule

**Interviews and assessors.** By agreement with clinics, project assessments were conducted before and after treatment (Time 1 [T1] and Time 2 [T2]). Assessments were carried out by interviewer pairs, including one clinical psychology graduate student and one post-bachelor's research assistant, both blind to condition. Assessments were highly standardized, so instead of assessing inter-interviewer reliability, we focused on ensuring that standardized procedures were followed strictly. Interviewer training by postdoctoral staff included didactics, modeling, and individually supervised practice interviews; videotapes of full completed inter-

<sup>1</sup> We complied with American Psychological Association ethical standards in the treatment of our sample.

<sup>2</sup> Why were 185 youths excluded? Note that we tried to assess all whose referral concerns included any depression or anxiety symptom; most either did not meet criteria for a depressive disorder or met criteria for another disorder that had treatment priority (see *Settings and Participant Contact Procedures* section of the text). Youths for whom anxiety disorders had priority ( $n = 48$ ) were invited to enroll in an anxiety trial. Youths for whom neither a depressive nor an anxiety disorder was primary ( $n = 137$ ) were offered regular treatment in their clinic. Because we lacked detailed information on youths at the time of their initial clinic contact, we had to interview many who ultimately did not qualify for the study.

<sup>3</sup> In any situation where decisions were influenced by parent, youth, or staff judgment as well as standardized measures, bias of various kinds could enter the process. Thus, it is important to note that randomization to PASCET versus usual care occurred after study eligibility was determined.

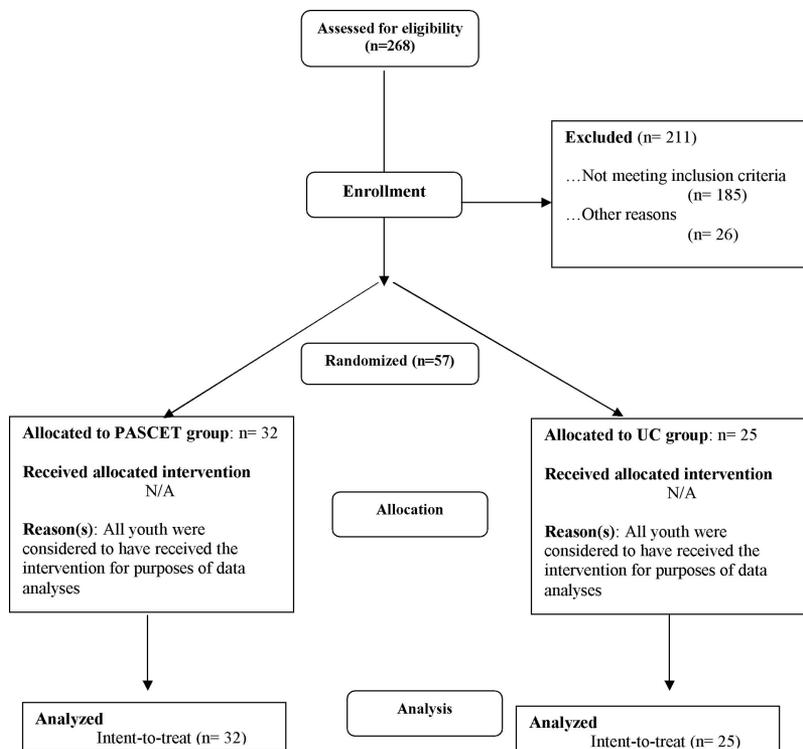


Figure 1. Consort flowchart for the study. PASCET = Primary and Secondary Control Enhancement Training program; UC = usual care; N/A = not applicable.

views were reviewed throughout the study to prevent drift and ensure adherence to standardized protocols.

**Assessment schedule.** T1 assessments were done prior to the start of therapy. Timing of T2 assessments reflected the fact that the study was a hybrid of efficacy and effectiveness research (e.g., Southam-Gerow, Austin, & Marder, 2008). Because treatment duration was free to vary in UC and in CBT, posttreatment assessment could not be set at the same time points for all participants (as in an efficacy trial with fixed treatment duration). Assessment at any fixed point (e.g., 16 weeks) would have included some youths who had terminated and others who had not; moreover, some administrators and clinicians objected to assessments during treatment, believing they would alter the therapy process or relationship. Thus, T2 assessments were set at the end of treatment for all participants. This did not control for duration, but it did ensure that assessment would come after the treatment—be it CBT or UC—had been given a full opportunity to produce effects.

The median lag between the date of the last session and the date of the T2 assessment was 59 days (32 for CBT, 63 for UC), reflecting the fact that termination decisions were often not announced by families (only becoming evident after several weeks of nonattendance) and the fact that scheduling was difficult for our low-income sample, often requiring substantial advance planning (e.g., to arrange time off from work).

#### Measurement Model for the Study

Treatment research has been criticized for relying on too narrow a range of outcomes (especially diagnoses and symptoms; see

Hoagwood et al., 1996; Kazdin & Weisz, 1998). To address this concern, we built on the Hoagwood et al. (1996) model, assessing three outcome dimensions: (a) symptoms and diagnoses; (b) consumer perspectives, including youth and parent ratings of therapeutic alliance; and (c) treatment process and systems impact, including duration, cost, and use of other clinical services. Following Consort principles, we identified depression symptom reduction as the primary outcome of interest in the study, with the other measures regarded as secondary.

#### Measurement of Symptom–Diagnosis Domain

**Diagnostic Interview Schedule for Children.** To assess diagnoses and symptoms, we used the DISC 4.0 (Shaffer et al., 2000). Earlier versions generated extensive reliability and validity data (e.g., Rubio-Stipec et al., 1996; Schwab-Stone et al., 1996; Shaffer et al., 1996), and the DISC team has continued to assess psychometrics of the DISC 4.0 (e.g., Shaffer et al., 2000). We used the DISC 4.0 to obtain (a) youth-report diagnoses and symptom counts (DISC-C), (b) parent-report diagnoses and symptom counts (DISC-P), and (c) combined diagnoses and symptom counts. To obtain combined values, we counted a symptom as positive if either the youth or the parent endorsed it. To reduce youth burden and focus their reports on the categories thought to be most validly reported by youths (as per consultation with DISC authors), we used only parent-report modules for oppositional defiant disorder, conduct disorder, and attention deficit hyperactivity disorder. Other DISC modules were administered to both parents and youths.

**Children's Depression Inventory (CDI).** The 27-item CDI (Kovacs, 2003) is a widely used youth self-report measure of

depressive symptoms. In clinical samples, Cronbach's alphas for the CDI have ranged from .71 to .89, and test-retest reliability coefficients have ranged from .50 to .87 (see Kovacs, 2003). The CDI and several other measures of youth depression have been found to correlate at .5 and higher (e.g., McCauley, Mitchell, Burke, & Moss, 1988; see Kovacs, 1992, for review). We used the CDI Total Depression scale for this study.

*Children's Depression Inventory—Parent Form (CDI-P).* To parallel the youth-report CDI, we used the parent-report CDI-P. This measure has shown good test-retest reliability and internal consistency (Kazdin, French, & Unis, 1983; Wierzbicki, 1987) and has distinguished children with depressive disorders from children with other diagnoses (Kazdin et al., 1983). Some research has shown substantial correlations between parent and youth versions of the CDI in nonclinical populations (e.g., Slotkin, Forehand, Fauber, McCombs, & Long, 1988; Wierzbicki, 1987), but the relation between parent and youth reports of youth depression is often weak (Kazdin et al., 1983), which argues for assessing both perspectives.

*Child Behavior Checklist (CBCL).* The CBCL is a widely used 118-item scale that obtains parent ratings for an array of behavioral and emotional problems. Extensive reliability and validity evidence has been reported (see Achenbach, 1991). We focused mainly on the broadband Internalizing scale and two narrow-band scales: Anxious-Depressed and Withdrawn-Depressed, all of which reported as *T* scores with a mean of 50 and a standard deviation of 10.

#### *Measurement of Consumer Perspectives Domain*

*Expectations of Therapy Outcome Scale (ETOS).* Youth and parent forms of the ETOS were used to assess UC versus CBT differences in pretreatment expectations (sample item: "How do you expect to feel when therapy is over?" 1 = *much worse*, 9 = *much better*). ETOS scores have been found to be significantly related to (a) the information youngsters and parents receive prior to treatment and (b) therapists' expectations at therapy onset (Bonner & Everett, 1982, 1986).

*Therapeutic Alliance Scale for Children (TASC).* In the post-treatment assessment, we used the seven-item TASC (Shirk & Saiz, 1992) youth-report (TASC-C) and parent-report (TASC-P) forms to assess youth and parent therapeutic alliance with the therapist. Hawley and Weisz (2005) have reported good internal consistency and test-retest reliability for the TASC among clinic-referred youths ( $\alpha = .93$ ,  $r = .79$ ) and parents ( $\alpha = .81$ ,  $r = .82$ ).

#### *Measurement of Treatment Process and Systems Impact*

*Service Assessment for Children and Adolescents (SACA)—Service use.* A key question to ask about any treatment is whether it reduces the need for other services. For this question, we used the SACA (Horwitz et al., 2001), a standardized parent-report interview assessing use of multiple mental health services (outpatient, inpatient, and other). SACA reliability and validity are well documented (Hoagwood et al., 2000; Horwitz et al., 2001; Stiffman et al., 2000).

*Clinic record review.* All of the clinics kept detailed records on study clients, following standard protocol required for reporting

and billing. The records contained diverse information, including treatment duration, session attendance, no-shows/cancellations, and other data required for service and cost documentation. Three reviewers recorded data from these records. Each record was coded by two reviewers, with discrepancies resolved by consulting the original record.

#### *Random Assignment of Participants*

We assigned youths to either UC or CBT, using block randomization (e.g., Friedman, Furberg, & DeMets, 1998), to support balance on clinic, youth gender, and bilingual therapist requirement (i.e., parent-preferred Spanish). Youths' identical status on the three dimensions were blocked and assigned randomly within blocks. As an illustration, the first bilingual requirement boy in Clinic A was randomly assigned to either CBT or UC; the next bilingual requirement boy in Clinic A was assigned to the other condition. This procedure provided reasonable, but not perfect, balance across conditions, because randomization occurred at the clinic level, each clinic had four blocks, and some blocks were left incomplete at the end of the study.

#### *Random Assignment of Therapists*

To ensure comparability of therapists in the two conditions, we randomly assigned all therapists to either UC or CBT using a randomized block procedure (see Friedman et al., 1998) to balance the conditions on inclusion of bilingual therapists and on representation of disciplines: psychologists, social workers/marriage, family, and child counselors, and psychiatrists. Note that we adhered strictly to therapist randomization, not excluding any CBT therapists, regardless of their performance in training or competence with CBT during therapy.

#### *Power Calculations*

Power was calculated for between- and within-group comparisons using actual sample sizes and assuming  $\alpha = .05$  (Lenth, 2006). Between-group power was based on a two-group *t*-test model with equal variances; power was .80 to detect an effect size of  $d = .76$  difference. For within-group comparisons, we used a paired-group *t*-test model with equal variances; power was .80 to detect  $d = .51$  for the CBT condition and .80 to detect  $d = .58$  for the UC condition. To detect a medium effect size of .50, power for between-group comparisons was .45. Power for within-group comparisons was .67 for the UC condition and .78 for CBT.

#### *Treatment Procedures Used in the Study: UC and CBT (PASCET)*

UC therapists agreed to use the treatment procedures they used regularly and believed to be effective in their clinic practice. Therapy continued in UC until a normal client termination. CBT therapists were trained to use the PASCET program (Weisz, Thurber, Sweeney, Proffitt, & LeGagnoux, 1997). PASCET is built on findings concerning cognitive and behavioral features of, and beneficial treatments for, youth depression (e.g., Lewinsohn, Clarke, Hops, & Andrews, 1990; Stark, Reynolds, & Kaslow, 1987) and on the two-process model of perceived control and coping (see Rothbaum, Weisz, & Snyder, 1982; Weisz, Rothbaum,

& Blackburn, 1984a, 1984b). In this model, *primary control* involves coping by making objective conditions (e.g., school grades, peer relationships) fit one's wishes. *Secondary control* involves coping by adjusting oneself (e.g., one's expectations, interpretations) to fit objective conditions, influencing their subjective impact without altering the actual conditions. Depression is addressed by applying primary coping to distressing conditions that are modifiable and secondary coping to conditions that are not. The goal for each youth is to learn and try out a set of primary and secondary control skills, identify a subset of the skills that work best for that individual, then practice applying those best fit skills in situations that trigger depressive symptoms. Sessions consist mainly of individual therapy, but include periodic parent meetings and brief summary meetings for youth, parent, and therapist after each individual youth session. Therapists are guided by a manual (Weisz et al., 1999) and youths by a parallel practice book. The expanded PASCET manual used for this study contains detailed plans for 10 individual sessions and outlines to guide up to 5 more sessions, but treatment can be extended flexibly for youths who need more than 15 sessions to learn and practice the concepts and skills fully.

#### *Training and Supervision of PASCET and UC Therapists*

Training and supervision time had to fit the constraints of busy clinics, including clinician productivity requirements. On the basis of these constraints, therapists randomized to PASCET received a 1-day, 6-hr training, then about 30 min of weekly case supervision in use of the protocol from one of six doctoral-level clinical psychologists who had prior experience with PASCET. Whenever possible, we used group supervision, targeting 30 min of case discussion per therapist. This fit routines in all of the clinics, where all study therapists—PASCET and UC—received regular supervision from clinic staff; regular supervision time was typically reduced for PASCET therapists to accommodate their project-related supervision.<sup>4</sup> Supervision attendance was good, with virtually all scheduled meetings held or rescheduled.

#### *Recording and Coding Treatment Sessions*

Both PASCET and UC treatment sessions were recorded, then coded for protocol adherence, characterization of UC, and treatment differentiation using two coding systems.

*PASCET Brief Adherence Scale (PBA)*. To gauge PASCET (Southam-Gerow, Jensen, Gelwasser, Chu, & Weisz, 2001) protocol adherence, we used the PBA, which contains 16 items (rated *present* vs. *absent*) reflecting whether the session included specific elements of PASCET session procedures. Sessions were randomly selected from Sessions 1–10, that is, the structured sessions featuring primary and secondary control skills (other sessions lacked the prescriptive content required for adherence coding). We restricted coding of tapes to those cases with at least six session tapes ( $n = 30$ ). From this subsample, we randomly selected 50% of the cases; one of two expert raters coded all available tapes for each of the cases. Some 25% of coded tapes were selected randomly and coded by the second rater; kappa was 1.00 for interrater agreement.

*Therapy Process Observational Coding System for Child Psychotherapy—Strategies Scale (TPOCS-S)*. We used the TPOCS-S (McLeod, 2001) to characterize the therapy provided in

UC and to assess differentiation between the PASCET and UC conditions. TPOCS-S items are designed to represent prominent therapeutic approaches in youth psychotherapy. We used four TPOCS-S subscales: CBT (14 items—e.g., cognitive distortions); Psychodynamic (4 items—e.g., transference); Family (5 items—e.g., parenting style); and Client-Centered (4 items—e.g., client perspective). TPOCS-S coders make 7-point extensiveness ratings on each item, that is, for the extent to which the therapist used each therapeutic intervention during an entire session.

Four graduate students and one doctoral (Ph.D.)-level clinical psychologist formed the coding team. Two sessions from each case (excluding first and last) were randomly sampled if the case had 20 sessions or less (otherwise, 3 were coded). This produced 94 coded sessions (51 UC, 43 PASCET—the number of sessions between the two types of treatment differed because UC therapy contained more sessions). Independent coding of 53 sessions showed good item-level interrater reliability (mean intraclass correlation = .71,  $SD = .14$ ).

#### Results

Analyses involved (a) addressing missing data, (b) data reduction, (c) tests of group comparability, (d) primary analyses testing treatment group effects, and (e) post hoc analyses. All analyses used the intent-to-treat (ITT) sample. For measures with fewer than 15% missing items, we scaled the sum of completed items to fit the scores of the completed measures (e.g., if 2 of the 27 CDI items were missing, we multiplied total score by 27/25). Participants missing a measure at any time point were excluded from analyses with that measure at that time point.

#### *Data Reduction Through Exploratory Factor Analysis (EFA)*

Because we sought to make inferences about latent constructs rather than specific outcome measures, and to reduce the number of significance tests, we used EFA to identify latent factors underlying the parent- and youth-report depression measures. Tests of normality showed generally normal distributions, with only youth-report CDI showing moderate positive skew. Maximum-likelihood estimation produced two factors based on a scree-test. We used an oblique Promax rotation (Hendrickson & White, 1964) to identify the two-factor solution with the simplest structure. One factor, Parent-Reported Depression, included all parent-report measures: CDI-P (loading: .89), DISC-P depression symptoms (.53), CBCL Withdrawn-Depressed (.69), and CBCL Anxious-Depressed (.74). The other factor, Youth-Reported Depression, included both youth-report measures: CDI (.99) and DISC-C depression symptoms (.37). The distinction between factors is clear; the .99 loading of the CDI on the Youth-Reported Depression factor suggests caution in interpreting loadings on each factor (Van Driel, 1978). Using unit weighting (Kline, 2004), we averaged standardized values of each factor's measures to compute a factor score for each participant. To obtain posttreatment factor scores on

<sup>4</sup> Mean supervision time per week, by therapist report, was 3.47 hr, including individual, group, treatment team, and staff meeting supervision. We do not have data on the exact amount by which regular supervision was reduced for PASCET therapists.

metrics comparable to those of the pretreatment factors, we standardized each of the posttreatment factor's measures using the measures' pretreatment means and standard deviations.

### Preliminary Analyses

As a context for later analyses of depression measures, we assessed the success of randomization in producing similar PASCET and UC groups, the content of the treatment sessions, the duration of treatment in PASCET and UC, and patterns of session attendance.

*Group comparisons on pretreatment variables.* To test whether randomization created comparable PASCET and UC groups, we compared the groups at T1 using *t* tests for continuous measures and chi-square tests for categorical measures. Our tests included demographic measures (ethnicity, gender, family income), youth-report clinical measures (CDI, DISC depression symptom count, youth depression factor score), parent-report clinical measures (parent CDI, DISC depression symptom counts, DISC symptom counts for externalizing disorders, CBCL Anxious-Depressed, CBCL Withdrawn, CBCL Externalizing, Parent-Reported Depression factor score, ETOS), and combined measures (DISC parent-plus-youth combined diagnoses). The two groups did not differ significantly on any pretreatment measure (see Table 1).<sup>5</sup>

*Adherence coding: PASCET sessions.* The PBA scale used to gauge PASCET adherence contains 16 items rated present or absent. For the PASCET cases coded, the mean proportion of required elements present in the sessions was .98 (range = .88–1.00, *SD* = .01).

*Coding of UC sessions.* Interventions used by UC therapists showed high variability, with essentially no use of any PASCET-specific protocol procedures. Thus, the TPOCS-S was used to characterize UC in terms of the broad therapeutic approaches used, including CBT, psychodynamic, family, and client-centered. UC therapy sessions were rated higher on client-centered ( $M = 3.58$ ,  $SD = 0.77$ ) than on CBT ( $M = 1.62$ ,  $SD = 0.45$ );  $t(19) = 9.00$ ,  $p < .001$ ; psychodynamic ( $M = 1.73$ ,  $SD = 0.74$ ),  $t(19) = 12.28$ ,  $p < .001$ ; and family ( $M = 2.12$ ,  $SD = 0.96$ ),  $t(19) = 5.04$ ,  $p < .001$ , interventions. UC sessions also had higher ratings on family intervention than on CBT,  $t(19) = 2.34$ ,  $p < .05$ . In general, UC therapists used interventions from multiple theoretical orientations, with an emphasis on nonbehavioral approaches.

*Distinctness of UC and PASCET.* We compared PASCET and UC using TPOCS-S coding of 20 PASCET and 20 UC cases. PASCET sessions showed more CBT than UC sessions; UC treatment scored higher than PASCET on the Psychodynamic and Family subscales (see Table 2).

*Duration of UC versus PASCET.* Mean number of sessions was 20.52 ( $SD = 16.07$ ) for UC and 16.45 ( $SD = 6.07$ ) for PASCET,  $t(29.53)^6 = 1.20$ ,  $p = .24$ ,  $d = .34$ . Mean treatment duration was 39.26 weeks ( $SD = 28.98$ ) for UC and 25.20 weeks ( $SD = 15.40$ ) for PASCET,  $t(34.75) = 2.19$ ,  $p = .04$ ,  $d = .60$ . For the 75% of the sample that had no depressive disorder at posttreatment (see below), mean duration was 42.39 weeks ( $SD = 29.44$ ) for UC and 24.19 weeks ( $SD = 16.60$ ) for PASCET,  $t(29.66) = 2.42$ ,  $p = .02$ ,  $d = .79$ .

*Session attendance.* UC families canceled sessions marginally more often and no showed nonsignificantly more often than did

PASCET families (Table 3). Total missed sessions (cancelled plus no-shows) was marginally higher for UC than for PASCET families,  $t(29.14) = 1.70$ ,  $p = .10$ ,  $d = .49$ .

### Primary Analyses

We compared UC and PASCET groups using three dimensions of the Hoagwood et al. (1996) model: diagnoses–symptoms, systems, and consumer perspectives. We used analyses of covariance for all continuous measures, with treatment entered as the independent variable and pretreatment score entered as a covariate. We considered hierarchical linear modeling (HLM) but rejected this approach because our sample size would not have produced stable HLM estimates, and we only had assessment data from two time points.

*Diagnosis–symptom domain.* All youths had met criteria for a depressive disorder at pretreatment; 75% showed no depressive disorder at posttreatment. There was no significant difference between PASCET and UC in the percentage who shed their diagnosis, regardless of whether we focused on any depressive disorder (73.3% vs. 77.3%) or MDD, MinDD, or DD, separately. In analyses of covariance (ANCOVAs), with clinic as a random effect, we used Youth-Reported Depression and Parent-Reported Depression factor scores as composite indices of depression symptomatology, adding other measures of interest (see Table 3). None of the ANCOVAs showed a significant effect of treatment group.

*Mental health systems domain.* Analyses of additional services provided during the treatment phase of the study (Table 4) showed that UC families were more likely than PASCET families to receive additional mental health services (e.g., treatment from a second therapist, school-based services, psychotropic medication). In comparison with PASCET youths, more UC youths used all psychotropics combined, and more UC youths used depression-specific psychotropics.

An increasingly important consideration in youth treatment, from a systems perspective, is cost. Guided by clinic administrators, we estimated cost of treatment for each youth by adding the costs ([average manufacturer's price] obtained from the Internet for medications and from clinic administrators for all other elements) of (a) psychotherapist time for sessions; (b) psychiatric staff costs for medication assessment, prescription, and monitoring/titration sessions; (c) medications for depression; and (d) weekly clinic administrative costs of keeping a case open and keeping records current (this included ongoing costs during weeks when sessions were missed, such as continued updating of clinic records, staff calls to families who miss sessions, efforts to reschedule the next session, and reminder calls before sessions). Mean cost per case was significantly higher for UC (\$4,930.56) than for PASCET (\$3,221.34) families, as shown in Table 3.

<sup>5</sup> Because our sample came from seven clinics, we conducted preliminary analyses to determine whether the youths differed among these clinics, using tests structured like those described in this paragraph for clinical and sociodemographic variables at Time 1, with clinic entered as a random effect. Using analysis of variance for continuous measures and chi-square for categorical measures, we found only one significant difference: Clinics differed on youth CDI scores ( $p = .046$ ).

<sup>6</sup> When group variances differed significantly ( $p < .05$ ) and violated the equal variance assumption of the standard *t* test, we used the relatively robust Welch statistic and its associated degrees of freedom (Blalock, 1972; Welch, 1951).

Table 2  
Coding of Treatment Sessions in Primary and Secondary Control Enhancement Training (PASCET) and Usual Care (UC)

Type of treatment	UC		PASCET		<i>t</i>	<i>df</i>	<i>p</i>	Cohen's <i>d</i>
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>				
Cognitive-behavioral	1.62	0.45	2.75	0.89	5.14	38	.001	1.38
Psychodynamic	1.73	0.74	1.13	0.24	3.35	38	.01	-0.86
Family	2.12	0.96	1.44	0.48	2.89	38	.01	-0.80
Client-centered	3.58	0.77	3.42	0.62	0.93	38	>.50	-0.19

*Consumer perspectives domain.* Youths' TASC-C scores did not differ reliably by condition. However, on the TASC-P, PASCET parents rated therapeutic alliance as significantly stronger than did UC parents (see Table 3).

### Prediction of Outcome in Usual Care

Because UC showed considerable variability across the sample, with some representation of CBT, client-centered, psychodynamic, and family approaches, we sought to learn whether any of these approaches might predict depression reduction in UC. We conducted hierarchical regressions predicting the Parent-Reported Depression and Youth-Reported Depression factors scores from the four TPOCS-S subscales. For each regression analysis, the baseline score on the outcome measure was entered prior to the TPOCS-S subscale to control for initial severity. Three of the subscales failed to predict

outcome, but the Psychodynamic subscale predicted reduced Parent-Reported Depression ( $\beta = -.44$ ,  $R^2$  change = .20,  $p < .05$ ),  $F(2, 14) = 4.11$ ,  $p < .05$ ,  $R^2 = .37$ . Post hoc analyses showed two of the four items on the Psychodynamic subscale to be significant predictors: transference, for example, noting how the youth's interactions with the therapist resemble other relationships in the youth's life ( $\beta = -.52$ ,  $R^2$  change = .24),  $p < .05$ ,  $F(2, 14) = 5.37$ ,  $p < .05$ ,  $R^2 = .43$ , and explores past, for example, noting a connection between past behavior and experiences and current youth behavior and experiences ( $\beta = -.44$ ,  $R^2$  Change = .19,  $p < .05$ ),  $F(2, 14) = 4.13$ ,  $p < .05$ ,  $R^2 = .37$ .

### Discussion

We assessed the extent to which brief training and limited case consultation in PASCET would influence therapist behavior and

Table 3  
Posttreatment Comparison of Primary and Secondary Control Enhancement Training (PASCET) and Usual Care (UC) on Multiple Outcomes

Outcome measure	UC			PASCET			<i>t</i>	<i>df</i>	<i>p</i>	Cohen's <i>d</i>
	<i>M</i>	<i>SD</i>	<i>n</i>	<i>M</i>	<i>SD</i>	<i>n</i>				
Youth report										
CDI	8.47	8.44	19	8.00	6.32	25	0.21	42	0.83	0.06
DISC-C MDD symptoms	6.65	4.64	20	5.13	3.67	23	1.20	41	0.24	0.36
Youth depression factor	-0.57	0.95	20	-0.76	0.67	26	0.77	44	0.45	0.23
TASC	22.53	4.71	19	22.25	4.77	24	0.19	41	0.85	0.06
Parent report										
CDI-P	11.19	6.32	16	11.64	6.63	22	-0.21	36	0.84	-0.07
CBCL Anxious/Depressed	62.54	6.21	13	61.95	8.38	20	0.22	31	0.83	0.08
CBCL Withdrawn	64.77	13.65	13	61.45	8.15	20	0.88	31	0.39	0.30
DISC-P MDD Symptoms	6.05	3.91	21	5.67	4.20	24	0.31	43	0.76	0.09
Parent depression factor	-1.04	1.00	21	-1.00	0.95	26	-0.13	45	0.89	-0.04
CBCL Externalizing	60.85	12.33	13	61.70	9.06	20	-0.23	31	0.82	-0.08
TASC-P	22.71	4.36	21	25.32	3.34	22	-2.20	41	0.03	-0.66
Combined report										
DISC total diagnoses	2.18	1.19	17	2.05	1.58	19	0.26	34	0.79	0.09
Other variables										
Estimated cost (U.S. dollars)	4,930.56	3,707.64	25	3,221.34	1,631.28	32	2.15	31.26	0.05	0.60
Treatment duration (weeks)	39.26	28.98	25	25.20	15.40	31	2.20	34.75	0.04	0.60
No. of treatment sessions	20.52	16.07	22	16.45	6.07	32	1.20	29.53	0.25	0.34
Cancelled sessions	5.09	7.26	22	2.25	2.28	32	1.78	23.8	0.09	0.53
No-shows	2.18	2.40	22	1.66	2.98	32	0.69	52	0.50	0.19

*Note.* CDI = Children's Depression Inventory; DISC-C = Diagnostic Interview Schedule for Children—Child Report; MDD = major depressive disorder; TASC = Therapeutic Alliance Scale for Children; CDI-P = Children's Depression Inventory—Parent Report; CBCL = Child Behavior Checklist; DISC-P = Diagnostic Interview Schedule for Children—Parent Report; TASC-P = Therapeutic Alliance Scale for Children—Parent Report; DISC = Diagnostic Interview Schedule for Children.

Table 4  
*Additional Services Used by Primary and Secondary Control Enhancement Training (PASCET) and Usual Care (UC) Youths*

Conditions	UC		PASCET		$\chi^2$	df	p
	n	%	n	%			
Any additional services					6.47	1	.01
Yes	12	60.00	6	23.10			
No	8	40.00	20	76.90			
Any psychotropic medication					4.73	1	.03
Yes	8	33.33	3	9.70			
No	16	66.67	28	90.30			
Any depression medication					3.74	1	.05
Yes	6	25.00	2	6.50			
No	18	75.00	29	93.50			

clinical, consumer, and systems outcomes in community clinic practice. Our coding of session tapes indicated that the training and consultation had a measurable impact on therapist behavior, with PASCET sessions including coded elements of the protocol and with TPOCS-S coding showing significantly higher ratings for PASCET than for UC on the use of CBT approaches and significantly lower ratings than UC on psychodynamic and family approaches that were not in the PASCET protocol. This suggests that the training and supervision procedures did lead to implementation of the basic protocol elements. However, the quality of that implementation deserves attention (as discussed later).

On clinical outcomes, whereas all youths began the study with a depressive disorder, more than 70% in both conditions had no depressive disorder at posttreatment. Scores on continuous depression measures also dropped to subclinical levels, for example, mean CDI scores in both the PASCET ( $M = 8.00$ ) and UC ( $M = 8.22$ ) groups dropped well below established clinical range cutoff points (see Craighead, Curry, & Ilardi, 1995; Fristad, Weller, Weller, Teare, & Preskorn, 1988; Kovacs, 2003; Timbremont & Braet, 2001). This pattern points to clinically meaningful change in depression levels from pre- to posttreatment. However, PASCET and UC youths were not significantly different at posttreatment in rates of depressive disorders or on symptom measures. Yet, the duration of treatment preceding these reductions in depressive disorders and symptoms was markedly shorter for PASCET than for UC youths (24 vs. 39 weeks). The overall pattern of findings could fit two different interpretations. We consider each.

#### *Interpretation A: PASCET Produced Faster Improvement Than UC*

One possibility is that PASCET led to faster improvement than did UC. This interpretation warrants attention in the light of certain data from our study and two lines of previous research. First, we found that treatment duration was shorter for PASCET than for UC in the full sample and that the difference was somewhat larger among PASCET youths than among UC youths who achieved remission. It is possible that UC, by averaging about 4 months longer than PASCET, may have benefited from the natural time course of depression remission. Median time to recovery from an MDD episode in clinically referred youths has been found to range from 7 to 9 months (see Kovacs, 1996); our average UC youth was in

treatment more than 9 months. By contrast, our average PASCET case was in treatment for only 6 months; Kovacs (1996) reported 6-month recovery rates of only 33%-40%. In sum, the average duration of UC in our study approximated the median time to recovery documented by Kovacs (1996), whereas the average duration of PASCET was well below the average time to recovery reported by Kovacs.

A potentially relevant line of evidence relates to the Hawthorne effect and related findings suggesting that subjecting any process to study can change that process. Data available from six of our seven participating clinics, during the decade prior to the beginning of the current study (from Weersing & Weisz, 2002), showed that average duration of UC for depressed youths was 23 weeks in the absence of a randomized trial; in the current trial, pitting UC against PASCET, UC for depressed youths averaged 39 weeks, a 70% increase over the period when there was no trial. The fact that PASCET and UC outcomes were to be compared did seem to engender a competitive climate. As an example, one UC clinician was overheard telling other UC clinicians, "We're going to beat those manual people!" Given the natural time course of depression, outcomes could be enhanced to the extent that cases are held open for extended periods. It is possible that the significantly longer duration of UC, relative to PASCET, reflected a tendency by UC clinicians to continue treating youths until improvement was noted. Improvement may also have been boosted by the UC group's significantly higher rate of additional services, medication in general, and antidepressants in particular, as compared with the PASCET group.

Studies of youth depression treatment follow-up (e.g., Birmaher et al., 2000; Clarke, Rohde, Lewinsohn, Hops, & Seeley, 1999; The TADS Team, 2007) have rather consistently shown that participants continue to improve after acute intervention and that eventually all treated groups show roughly equal (and high) levels of improvement and remission. This suggests that the primary benefit of a more successful treatment may lie not in ultimate outcome but in speed of improvement. This in turn suggests a way to frame the present findings: Several lines of evidence connect to the possibility that PASCET may have produced faster depression relief than UC, including the following: (a) Our data showing that UC lasted longer than PASCET, particularly when depression remitted and especially when the therapist supported termination;

(b) our data showing that duration of UC in participating clinics increased by 70% when the PASCET versus UC trial was introduced; (c) studies of the natural time course of remission, resembling duration of UC in our study (and markedly longer than the duration of PASCET); and (d) studies of youth depression treatment follow-up suggesting that the main benefit of successful treatments lies in speed of improvement, not ultimate outcome. However, because our design did not include measurement of depression at common time points for all participants, a definitive test of this interpretation awaits further research.

### *Interpretation B: PASCET and UC Did Not Differ in Effectiveness*

We note an alternative interpretation of our findings: that the absence of posttreatment condition effects on depression symptoms or diagnoses means that PASCET and UC did not differ in effectiveness in the community clinic context of the present study. If this were the case, several strands of research would be relevant. Previous findings (e.g., Brent, Kolko, Birmaher, Baugher, & Bridge, 1998; Hammen, Rudolph, Weisz, Rao, & Burge, 1999; Southam-Gerow, Chorpita, Miller, & Gleacher, 2008, 2003; Wright et al., 2007) have suggested that youths referred to community clinics through normal community channels are more likely than those treated in research clinics or traditional efficacy trials to show high levels of externalizing comorbidity, poverty, and family stress; other studies have shown that effects of CBT are markedly diminished in youths with significant externalizing comorbidity (Rohde, Clarke, Mace, Jorgensen, & Seeley, 2004) and in youths referred from community sources (rather than recruited through ads; Brent et al., 1998; Weersing, Iyengar, Kolko, Birmaher, & Brent, 2006). Our sample was completely community referred and had high rates of externalizing comorbidity. The notion that CBT faces challenges with community-referred youths is consistent with findings of Kerfoot et al. (2004; noted in the introduction) that teaching CBT to practitioners did not improve outcomes for depressed youths referred from and treated in the community.

If it were true that PASCET did not outperform UC, two other perspectives on our findings would deserve attention. First, Fixsen et al. (2005) stressed that when a previously tested intervention is applied in a new context, null findings may reflect, not a problem with the intervention itself, but rather incomplete implementation in the new context. Fixsen et al. (2005) stressed that information dissemination, and training alone “repeatedly have been shown to be ineffective” (p. 70; see also, Grimshaw et al., 2001) and that “successful implementation efforts. . . require a longer-term multi-level approach” (Fixsen et al., p. 70). Fixsen et al. noted that the implementation approaches supported by evidence include (a) skill-based training, (b) practice-based coaching, (c) practitioner selection, (d) practitioner performance evaluation, (e) program evaluation, (f) facilitative administrative practices, and (e) systems interventions. Our procedures included only the elements in a and b; some of the best supported approaches—for example, selecting the best practitioners to conduct the new intervention—were ruled out by the need to create a fair experimental test of PASCET versus UC (which required random assignment of clinicians). The evidence from Fixsen et al. suggests that our approach to examining PASCET in community clinics is a first step, with some of

the best documented requirements for implementing interventions in new settings not yet included.

A closely related point pertains to the marked difference between therapists in their familiarity and skill with the treatment procedures used in the two conditions. UC therapists used their own preferred and familiar treatment procedures, which they themselves had selected. By contrast, PASCET therapists used an unfamiliar approach guided by a manual they had not selected or even seen before. The PASCET therapists’ total exposure to PASCET prior to starting treatment with study cases consisted of one 6-hr training program. No PASCET therapist had any practice case prior to the first study case, and for 18 of the 24 PASCET therapists, their first PASCET case was their only study case. Most PASCET therapists did show acceptable fidelity, but fidelity measures, including ours, assess only whether the main components and skills of the manual are included in the sessions. Not covered in such measures is the competence or skill with which therapists used the components and skills. This is a study limitation, but we are not aware of a relevant measure that has been validated.

Our session videotape reviews suggested a broad range in therapist skill with PASCET; some therapists introduced treatment components and skills effectively but many appeared uncomfortable and unnatural. Some therapists read portions of the manual to the youths, some lost track of where they were in the protocol, and others introduced key points in ways that left youngsters confused or bored. Therapist lack of skill in the protocol may have undermined PASCET effectiveness. In the future, it will be useful to assess the impact of PASCET when delivered by community clinic therapists who have gained experience and familiarity with the protocol and can deliver it comfortably and skillfully.

If it were true that PASCET did not outperform UC in reducing depressive symptoms and disorders, it would be worthwhile to ask whether approaches other than CBT might be a better fit for the therapists, youths, and settings of community clinic care. This possibility is suggested by our unexpected finding that clinical outcomes in UC were predicted not by therapists’ use of CBT but by their use of psychodynamic methods. Of course, our data on frequency of various approaches tell us nothing about the quality with which the approaches were used; poorly conducted CBT might well not predict outcomes, whereas skillfully conducted CBT might. Despite these caveats, the finding warrants attention in future research (see below).

### *Findings on Therapeutic Alliance, Service Use, and Cost and Their Clinical Implications*

Beyond symptom and diagnostic change, our findings showed a number of condition differences that have clear clinical relevance. The PASCET group, as compared with the UC condition, used significantly fewer adjunctive services, was lower in total cost, and generated higher parent ratings of therapeutic alliance. Thus, along some significant clinical and practical dimensions, PASCET showed advantages over UC that might be of real value to practitioners and provider organizations. Using fewer adjunctive services can mean more efficient intervention that does not require complex case management and liaison with other providers. Stronger alliance with parents can enhance their participation in the treatment process and increase the likelihood of getting their children to scheduled appointments, and our findings did show

marginally better session attendance by PASCET youths. Finally, shortened time in treatment and reduced cost can mean reduced waitlists, shorter waits, and more families served.

### *Limitations, Strengths, and Directions for Future Research*

It is instructive to consider both limitations and strengths of our study. One limitation is a relatively small sample, with reduced power to detect effects; this may have made a difference on measures showing small to medium effect sizes but not on others. Another limitation was heterogeneity of the therapists and youths, including highly mixed problem profiles and multiple comorbidities, with numerous externalizing disorders; this certainly increased error variance and may have undermined treatment focus on depression. In addition, the heterogeneity of UC interventions limited our ability to interpret findings in relation to a specific alternative treatment. We could have limited heterogeneity in these various forms by (a) using only a few carefully selected therapists rather than randomly assigning all who volunteered, (b) ruling out youths with comorbidities, particularly those whose disorders might have complicated treatment (e.g., ADHD, oppositional defiance disorder, conduct disorder), and (c) designing our own homogeneous control condition rather than having UC therapists use their own familiar and preferred approaches. Our failure to take any of these measures, while problematic in some respects, can also be viewed as a strength, increasing clinical representativeness by including the therapists, youths, and treatments of true usual clinical care.

Our results highlight several objectives for research on evidence-based practice and everyday clinical care. One part of the research agenda needs to consist of testing practices that have worked well in efficacy trials to determine whether these practices—or some adaptation of them—can be effective in an everyday care context. Our study suggests that such research is feasible, and it highlights several ways such research can be strengthened in the future. Our finding that psychodynamic procedures predicted outcome in UC suggests a treatment model that may warrant testing in the future and, more broadly, illustrates the potential value of carefully documenting the contents of UC (rather than regarding UC as a mere control condition). Our study highlights the fact that efforts to identify effective practices for everyday care must contend with complex clients, significant comorbidity, and challenging economic and time constraints in clinical care settings, which limit the time available for learning new skills. Such challenges place the development of strategies for efficient training and flexible treatment of comorbidity and an ever-changing landscape of stressors high on the research agenda.

Ultimately, the challenge of bringing EBT into everyday practice is essentially a balancing task, that is, ensuring sufficient therapist skill building to produce real competence, and thus beneficial effects, while ensuring that the clinician time required fits the economic realities of clinical practice. In this era of widespread calls for exporting tested treatments to practice settings, there is remarkably little research on how to accomplish this goal. The present study provides one example of an array of possible approaches (see also, example, Chambers, Ringeisen, & Hickman, 2005; Chorpita, 2006; Chorpita et al., 2002; Mufson et al., 2004; Schoenwald & Hoagwood, 2001; Southam-Gerow, 2005;

Southam-Gerow, Austin, & Marder, 2008), many more of which will be developed and tested in the years ahead.

### References

- Achenbach, T. M. (1991). *Manual for the Child Behavior Checklist/4–18 and 1991 profile*. Burlington: University of Vermont.
- American Academy of Child & Adolescent Psychiatry, Work Group on Quality Issues. (1998). Summary of the practice parameters for the assessment and treatment of children and adolescents with depressive disorders. *Journal of the American Academy of Child & Adolescent Psychiatry*, *37*, 1234–1238.
- American Psychiatric Association. (1994). *Diagnostic and statistical manual of mental disorders* (4th ed.). Washington, DC: American Psychiatric Association.
- Birmaher, B., Brent, D. A., Kolko, D., Baugher, M., Bridge, J., Holder, D., Iyengar, S., & Uloa, R. E. (2000). Clinical outcome after short-term psychotherapy for adolescents with major depressive disorder. *Archives of General Psychiatry*, *57*, 29–36.
- Blalock, H. M. (1972). *Social statistics*. New York: McGraw-Hill.
- Bonner, B. L., & Everett, F. L. (1982). Influence of client preparation and therapist prognostic expectations on children's attitudes and expectations of psychotherapy. *Journal of Clinical Child Psychology*, *11*, 202–208.
- Bonner, B. L., & Everett, F. L. (1986). Influence of client preparation and problem severity on attitudes and expectations in child psychotherapy. *Professional Psychology: Research and Practice*, *17*, 223–229.
- Brent, D. A., Holder, D., Kolko, D., Birmaher, B., Baugher, M., Roth, C., Iyengar, S., & Johnson, B. (1997). A clinical psychotherapy trial for adolescent depression comparing cognitive, family, and supportive therapy. *Archives of General Psychiatry*, *54*, 877–885.
- Brent, D. A., Kolko, D., Birmaher, B., Baugher, M., & Bridge, J. (1998). Predictors of treatment efficacy in a clinical trial of three psychosocial treatments for adolescent depression. *Journal of the American Academy of Child & Adolescent Psychiatry*, *37*, 906–914.
- Chambers, D. A., Ringeisen, H., & Hickman, E. E. (2005). Federal, state, and foundation initiatives around evidence-based practices for child and adolescent mental health. *Child and Adolescent Psychiatric Clinics of North America*, *14*, 307–327.
- Chorpita, B. F. (2006). *Modular cognitive-behavioral therapy for childhood anxiety disorders*. New York: Guilford Press.
- Chorpita, B. F., Yim, L. M., Donkervoet, J. C., Arensdorf, A., Amundsen, M. J., McGee, C., Serrano, A., Yates, A., Burns, J. A., & Morelli, P. (2002). Toward large-scale implementation of empirically supported treatments for children: A review and observations by the Hawaii Empirical Basis to Services Task Force. *Clinical Psychology: Science and Practice*, *9*, 165–190.
- Clarke, G., Hornbrook, M., Lynch, F., Polen, M., Gale, J., O'Connor, E., et al. (2002). Group cognitive-behavioral treatment for depressed adolescent offspring of depressed parents in a health maintenance organization. *Journal of the American Academy of Child & Adolescent Psychiatry*, *41*, 305–313.
- Clarke, G., Rohde, P., Lewinsohn, P. M., Hops, H., & Seeley, J. R. (1999). Cognitive-behavioral treatment of adolescent depression: Efficacy of acute group treatment and booster sessions. *Journal of the American Academy of Child & Adolescent Psychiatry*, *38*, 272–279.
- Craighead, W. E., Curry, J. F., & Ilardi, S. S. (1995). Relationship of Children's Depression Inventory factors to major depression among adolescents. *Psychological Assessment*, *7*, 171–176.
- Fixsen, D. L., Naoom, S. F., Blase, K. A., Friedman, R. M., & Wallace, F. (2005). *Implementation research: A synthesis of the literature* (Florida Mental Health Institute Publication No. 231). Tampa, FL: University of South Florida, Louis de la Parte Florida Mental Health Institute, The National Implementation Research Network.

- Friedman, L. M., Furberg, C. D., & DeMets, D. L. (1998). *Fundamentals of clinical trials*. New York: Springer.
- Fristad, M. A., Weller, E. B., Weller, R. A., Teare, M., & Preskorn, S. H. (1988). Self-report vs. biological markers in assessment of childhood depression. *Journal of Affective Disorders*, *15*, 339–345.
- Grimshaw, J. M., Shirran, L., Thomas, R., Mowatt, G., Fraser, C., Bero, L., et al. (2001). Changing provider behavior: An overview of systematic reviews of interventions. *Medical Care*, *39*, II-2–II-45.
- Hammen, C., Rudolph, K., Weisz, J. R., Rao, U., & Burge, D. (1999). The context of depression in clinic-referred youth: Neglected areas in treatment. *Journal of the American Academy of Child & Adolescent Psychiatry*, *38*, 64–71.
- Hawley, K. M., & Weisz, J. R. (2005). Youth versus parent working alliance in usual clinical care: Distinctive associations with retention, satisfaction, and treatment outcome. *Journal of Clinical Child and Adolescent Psychology*, *34*, 117–128.
- Hendrickson, A. E., & White, P. O. (1964). Promax: A quick method for rotation to oblique simple structure. *British Journal of Mathematical and Statistical Psychology*, *17*, 66–70.
- Hoagwood, K., Horwitz, S., Stiffman, A., Weisz, J., Bean, D., Rae, D., et al. (2000). Concordance between parent reports of children's mental health services and service records: The Services Assessment for Children and Adolescents (SACA). *Journal of Child and Family Studies*, *9*, 315–331.
- Hoagwood, K., Jensen, P. S., Petti, T., & Burns, B. J. (1996). Outcomes of mental health care for children and adolescents: I. A comprehensive conceptual model. *Journal of the American Academy of Child & Adolescent Psychiatry*, *35*, 1055–1063.
- Horwitz, S., Hoagwood, K., Stiffman, A., Summerfeld, T., Weisz, J., Costello, E., et al. (2001). Reliability of the Services Assessment for Children and Adolescents. *Psychiatric Services*, *52*, 1088–1094.
- Kazdin, A., French, N., & Unis, A. (1983). Child, mother, and father evaluations of depression in psychiatric inpatient children. *Journal of Abnormal Child Psychology*, *11*, 167–180.
- Kazdin, A. E., & Weisz, J. R. (1998). Identifying and developing empirically supported treatments for children and adolescents. *Journal of Consulting and Clinical Psychology*, *66*, 19–36.
- Kerfoot, M. H., Harrington, R., Rogers, J., & Verduyn, C. (2004). A step too far? Randomized trial of cognitive-behaviour therapy delivered by social workers to depressed adolescents. *European Child & Adolescent Psychiatry*, *13*, 92–99.
- Kline, R. B. (2004). *Beyond significance testing: Reforming data analysis methods in behavioral research*. Washington DC: American Psychological Association.
- Kovacs, M. (1992). *Children's Depression Inventory*. North Tonawanda, NY: Multi-Health Systems.
- Kovacs, M. (1996). Presentation and course of major depressive disorder during childhood and later years of the life span. *Journal of the American Academy of Child & Adolescent Psychiatry*, *35*, 705–715.
- Kovacs, M. (2003). *Children's Depression Inventory (CDI): Technical manual update*. North Tonawanda, NY: Multi-Health Systems.
- Lenth, R. V. (2006). *Java applets for power and sample size* [Computer software]. Retrieved May 7, 2008, from <http://www.stat.uiowa.edu/~rlenth/Power>
- Lewinsohn, P. M., Clarke, G. N., Hops, H., & Andrews, J. (1990). Cognitive-behavioral treatment for depressed adolescents. *Behavior Therapy*, *21*, 385–401.
- McCaughey, E., Mitchell, J. R., Burke, P., & Moss, S. (1988). Cognitive attributes of depression in children and adolescents. *Journal of Consulting and Clinical Psychology*, *56*, 903–909.
- McLeod, B. D. (2001). *The Therapy Process Observational Coding System for child psychotherapy*. Los Angeles: University of California.
- Mufson, L. H., Dorta, K. P., Wickramaratne, P., Nomura, Y., Olfson, M., & Weissman, M. M. (2004). A randomized effectiveness trial of interpersonal psychotherapy for depressed adolescents. *Archives of General Psychiatry*, *61*, 577–584.
- National Advisory Mental Health Council Workgroup on Child and Adolescent Mental Health Intervention and Deployment. (2001). *Blueprint for change: Research on child and adolescent mental health*. Rockville, MD: U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health.
- Office of the Surgeon General. (1999). *Mental health: A report of the Surgeon General*. Rockville, MD: U.S. Department of Health and Human Services.
- Office of the Surgeon General. (2004). *Report of the Surgeon General's Conference on Children's Mental Health: A national action agenda*. Rockville, MD: U.S. Department of Health and Human Services.
- President's New Freedom Commission on Mental Health. (2003). *Achieving the promise: Transforming mental health care in America: Final report* (DHHS Publication No. SMA-03-3832). Rockville, MD: Author.
- Rohde, P., Clarke, G. N., Mace, D. E., Jorgensen, J. S., & Seeley, J. R. (2004). An efficacy/effectiveness study of cognitive-behavioral treatment for adolescents with comorbid major depression and conduct disorder. *Journal of the American Academy of Child & Adolescent Psychiatry*, *43*, 660–668.
- Rothbaum, F., Weisz, J. R., & Snyder, S. (1982). Changing the world and changing the self: A two-process model of perceived control. *Journal of Personality and Social Psychology*, *42*, 5–37.
- Rubio-Stipec, M., Shrout, P. E., Canino, G., Bird, H. R., Jensen, P., Dulcan, M., & Schwab-Stone, M. (1996). Empirically defined symptom scales using the DISC 2.3. *Journal of Abnormal Child Psychology*, *24*, 67–83.
- Schoenwald, S. K., & Hoagwood, K. (2001). Effectiveness, transportability, and dissemination of interventions: What matters when? *Psychiatric Services*, *52*, 1190–1197.
- Schwab-Stone, M. E., Shaffer, D., Dulcan, M. K., Jensen, P. S., Fisher, P., Bird, H. R., et al. (1996). Criterion validity of the NIMH Diagnostic Interview Schedule for Children Version 2.3 (DISC-2.3): Epidemiology of child and adolescent mental disorders. *Journal of the American Academy of Child & Adolescent Psychiatry*, *35*, 878–888.
- Shaffer, D., Fisher, P., Dulcan, M. K., Davies, M., Piacentini, J., Schwab-Stone, M. E., et al. (1996). The NIMH Diagnostic Interview Schedule for Children Version 2.3 (DISC-2.3): Description, acceptability, prevalence rates, and performance in the MECA study. *Journal of the American Academy of Child & Adolescent Psychiatry*, *35*, 865–877.
- Shaffer, D., Fisher, P., Lucas, C. P., Dulcan, M. K., & Schwab-Stone, M. E. (2000). NIMH Diagnostic Interview Schedule for Children Version IV (NIMH DISC-IV): Description, differences from previous versions, and reliability of some common diagnoses. *Journal of the American Academy of Child & Adolescent Psychiatry*, *39*, 28–38.
- Shirk, S., & Saiz, C. (1992). Clinical, empirical, and developmental perspectives on the therapeutic relationship in child psychotherapy. *Development and Psychopathology*, *4*, 713–728.
- Slotkin, J., Forehand, R., Fauber, R., McCombs, A., & Long, N. (1988). Parent-completed and adolescent-completed CDIs: Relationship to adolescent social and cognitive functioning. *Journal of Abnormal Child Psychology*, *16*, 207–217.
- Southam-Gerow, M. A. (2005, Summer). Using partnerships to adapt evidence-based mental health treatments for use outside labs. *Report on Emotional & Behavioral Disorders in Youth*, *5*, 58–60, 77–79.
- Southam-Gerow, M. A., Austin, A. A., & Marder, A. M. (2008). Transportability and dissemination of psychological treatments: Research models and methods. In D. McKay (Ed.), *Handbook of research methods in abnormal and clinical psychology* (pp. 203–224). Newbury Park, CA: Sage.
- Southam-Gerow, M. A., Chorpita, B. F., Miller, L. M., & Gleacher, A. A. (2008). Private and public referrals in a child anxiety disorders clinic:

- Similarities and differences. *Administration and Policy in Mental Health and Mental Health Services Research*, 35, 168–180.
- Southam-Gerow, M. A., Jensen, A., Gelbwasser, A., Chu, B. C., & Weisz, J. R. (2001). *The PASCET Brief Adherence Scale*. Unpublished measure, University of California, Los Angeles.
- Southam-Gerow, M. A., & Kendall, P. C. (2006). Supervising a manual-based treatment program: Experiences from university-based and community-based clinics. In T. K. O'Neill (Ed.), *Helping others help children: Clinical supervision of child psychotherapy* (pp. 123–126). Washington, DC: American Psychological Association.
- Southam-Gerow, M. A., Weisz, J. R., & Kendall, P. C. (2003). Youth with anxiety disorders in research and service clinics: Examining client differences and similarities. *Journal of Clinical Child and Adolescent Psychology*, 32, 375–385.
- Stark, K. D., Reynolds, W. R., & Kaslow, N. J. (1987). A comparison of the relative efficacy of self-control therapy and a behavioral problem-solving therapy for depression in children. *Journal of Abnormal Child Psychology*, 15, 91–113.
- Stiffman, A. R., Horwitz, S. M., Hoagwood, K., Compton, W. I., Cottler, L., Bean, D., et al. (2000). The Service Assessment for Children and Adolescents: Adult and child reports. *Journal of the American Academy of Child & Adolescent Psychiatry*, 39, 1032–1039.
- The TADS Team. (2007). The Treatment for Adolescents with Depression Study (TADS): Long-term effectiveness and safety outcomes. *Archives of General Psychiatry*, 64, 1132–1144.
- Timbremont, B., & Braet, C. (2001). Psychometric assessment of the Dutch version of the Children's Depression Inventory. *Gedragstherapie*, 34, 229–242.
- U.S. Department of Commerce. (2003). *2000 census of population: General population characteristics: Metropolitan areas*. Washington, DC: Author.
- Van Driel, O. (1978). On various causes of improper solutions in maximum likelihood factor analysis. *Psychometrika*, 43, 225–243.
- Weersing, V. R., Iyengar, S., Kolko, D. J., Birmaher, B., & Brent, D. A. (2006). Effectiveness of cognitive-behavioral therapy for adolescent depression: A benchmarking investigation. *Behavior Therapy*, 37, 36–48.
- Weersing, V. R., & Weisz, J. R. (2002). Community clinic treatment of depressed youth: Benchmarking usual care against CBT clinical trials. *Journal of Consulting and Clinical Psychology*, 70, 299–310.
- Weersing, V. R., Weisz, J. R., & Donenberg, G. R. (2002). Development of the Therapy Procedures Checklist: A therapist-report measure of technique use in child and adolescent treatment. *Journal of Clinical Child & Adolescent Psychology*, 31, 168–180.
- Weiss, B., & Weisz, J. R., Politano, M., Carey, M., Nelson, W. M., & Finch, A. J. (1991). Developmental differences in the factor structure of the Children's Depression Inventory. *Psychological Assessment: A Journal of Consulting and Clinical Psychology*, 3, 38–45.
- Weisz, J. R. (2004). *Psychotherapy for children and adolescents: Evidence-based treatments and case examples*. Cambridge, United Kingdom: Cambridge University Press.
- Weisz, J. R., Donenberg, G. R., Han, S. S., & Weiss, B. (1995). Bridging the gap between laboratory and clinic in child and adolescent psychotherapy. *Journal of Consulting and Clinical Psychology*, 63, 688–701.
- Weisz, J. R., McCarty, C. A., & Valeri, S. M. (2006). Effects of psychotherapy for depression in children and adolescents: A meta-analysis. *Psychological Bulletin*, 132, 132–149.
- Weisz, J. R., Moore, P. S., Southam-Gerow, M. A., Weersing, V. R., Valeri, S. M., & McCarty, C. A. (1999). *Therapist manual: Primary and Secondary Control Enhancement Training Program*. Available from Jweisz@bcc.harvard.edu
- Weisz, J. R., Rothbaum, F. M., & Blackburn, T. F. (1984a). Standing out and standing in: The psychology of control in America and Japan. *American Psychologist*, 39, 955–969.
- Weisz, J. R., Rothbaum, F. M., & Blackburn, T. F. (1984b). Swapping recipes for control. *American Psychologist*, 39, 974–975.
- Weisz, J. R., Thurber, C., Sweeney, L., Proffitt, V. D., & LeGagnoux, G. L. (1997). Brief treatment of mild-to-moderate child depression using primary and secondary control enhancement training. *Journal of Consulting and Clinical Psychology*, 65, 703–707.
- Welch, B. L. (1951). On the comparison of several mean values: An alternative approach. *Biometrika*, 38, 330–336.
- Wierzbicki, M. (1987). A parent form of the Children's Depression Inventory—Reliability and validity in nonclinical populations. *Journal of Clinical Psychology*, 43, 390–397.
- Wright, L. R., Ehrenreich, J. T., Pincus, D. B., Hourigan, S. E., Southam-Gerow, M. A., & Weisz, J. R. (2007, November). *Examining differences and similarities for youth with depressive disorders in research and service clinics*. Poster session presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia.

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