

ScienceDirect

Behavior Therapy 45 (2014) 7-20

Behavior Therapy

www.elsevier.com/locate/bt

Clinical Experiences in Conducting Empirically Supported Treatments for Generalized Anxiety Disorder

Lauren E. Szkodny The Pennsylvania State University

Michelle G. Newman The Pennsylvania State University

> Marvin R. Goldfried Stony Brook University

Knowledge of the efficacy of cognitive-behavioral therapy (CBT) for generalized anxiety disorder (GAD) predominantly derives from randomized controlled trials (RCTs). However, there may be unique or complex issues encountered in practice, but not necessarily in the context of a controlled clinical trial. Therefore, launching a systematic dialogue between researcher and practicing clinician can be instrumental in augmenting evidence-based therapies through identification of variables that promote and interfere with clinical effectiveness. Through an initiative sponsored by the American Psychological Association's Divisions 12 (Society for Clinical Psychology) and 29 (Psychotherapy), this study aimed to examine clinical experiences conducting CBT for GAD. The participants were 260 psychotherapists who completed an online survey on assessment and therapeutic intervention utilization and their experience of factors that limit successful GAD treatment and symptom reduction. The majority of respondents reported 20 years or less experience using ESTs for GAD, typically treating clients in outpatient clinics, treatment centers, and private practice. Some of the most commonly used interventions address clients' maladaptive cognitions and elevated anxiety and muscle tension typical of GAD. Approximately one half of respondents reported incorporating integrative techniques into treatment. Factors perceived as limiting effective GAD treatment included severity and chronicity of GAD, presence of comorbid conditions, stressful home and work environments, client motivation and resistance to treatment, and issues encountered when executing therapy techniques. This study provides researchers with clinically derived directions for future empirical investigation into enhancing efficacy of GAD treatment.

Keywords: empirically supported treatment (EST); evidence-based treatment; generalized anxiety disorder (GAD); cognitive-behavioral therapy (CBT)

GENERALIZED ANXIETY DISORDER (GAD) is a chronic problem marked by pathological worry, and typically associated with a variety of physical, emotional, and cognitive symptoms, including restlessness, fatigue, irritability, muscle tension, concentration difficulty, and sleep disturbance (American Psychiatric Association, 2000). It is a highly prevalent anxiety disorder (Kessler et al., 2005), and likely to be encountered in both clinical and primary care settings. GAD is characterized by later onset than other anxiety disorders (Kessler et al.) and comprises fluctuations in symptom severity and impairment that may not be indicative of recovery (Wittchen, Lieb, Pfister, & Schuster, 2000; Yonkers, Warshaw, Massion, & Keller, 1996). GAD is also associated with a high degree of comorbidity that can interfere with its natural remission (e.g., Bruce et al., 2005). Finally, the disability and impairment associated with

Address correspondence to Lauren E. Szkodny, M.S., Department of Psychology, 378 Bruce V. Moore Building, The Pennsylvania State University, University Park, PA 16802-3103; e-mail: les233@psu.edu 0005-7894/45/7–20/\$1.00/0

^{© 2013} Association for Behavioral and Cognitive Therapies. Published by Elsevier Ltd. All rights reserved.

GAD is analogous to major depressive disorder and can be more extensive than pure substance use disorders, some anxiety disorders, and personality disorders, even taking into account sociodemographic variables and comorbid conditions (Grant et al., 2005).

GAD is unique in that behavioral avoidance commonly observed in other anxiety disorders is not one of its cornerstone symptoms. Rather, individuals with GAD display a tendency to perceive threat in neutral or ambiguous stimuli (Mathews & MacLeod, 1994), and engage in worry to cope with the occurrence of negative events and alterations in emotional reactivity (Newman & Llera, 2011). This process is maintained through connecting their worry with the nonoccurrence of the feared event and subsequent reduction in anxiety. Temporally linking these events then fosters positive beliefs regarding worry's functionality, such as worry helping them to anticipate negative outcomes or worst-case scenarios or avoid shifts in negative emotions (Borkovec & Roemer, 1995; Newman & Llera). In the absence of interventions to address the aforementioned information processing biases and maladaptive cognitions, GAD has a poor prognosis captured by a low probability of symptom remission and a high likelihood of recurrence (Rodriguez et al., 2006), thereby underscoring the need for effective treatment.

Based on treatment outcome studies adhering to rigorous scientific standards (Chambless & Hollon, 1998), cognitive-behavioral therapy (CBT) is the only empirically supported treatment for GAD to date. Cognitive-behavioral interventions target principle and associated symptoms of GAD, and include identifying early anxiety triggers; challenging and disrupting individuals' misconceptions and factors maintaining worry; actively testing the validity of erroneous beliefs; using desensitization methods (e.g., imaginal exposure to worry triggers, relaxation); improving skills to manage worry and anxiety; and developing more adaptive ways of responding to neutral and ambiguous situations (Newman & Borkovec, 2002; Newman, Stiles, Janeck, & Woody, 2006).

CBT for GAD also emphasizes fostering positive expectations of treatment to predict and influence therapeutic alliance and treatment outcome (Newman & Fisher, 2010). To increase level of expectancy, clinicians educate clients about their symptoms by discussing the underlying mechanisms of the symptoms and the treatment goals. Furthermore, clients develop an alternative, more adaptive view of themselves and the world, are taught to confront their negativistic views, and learn to become more adept at identifying and understanding the function of any forms of resistance to treatment (e.g., understanding how avoidance may interfere with the completion of homework assignments).

Extensions of these cognitive-behavioral interventions have focused on addressing individuals' intolerance of uncertainty (IU), a process marked by a heightened sensitivity to ambiguous and uncertaintyrelevant information and situations (Dugas & Ladouceur, 2000). Likewise, metacognitive therapy (MCT; Wells, 2006) addresses worry (Type 1 worry) and individuals' negative interpretations of their worry (Type 2 worry or "meta-worry"). Specifically, MCT aims to identify and modify metacognitive appraisals and beliefs about worry and enhance use of adaptive coping strategies in response to worry triggers (Wells).

Although randomized controlled trials (RCTs) demonstrate the efficacy of cognitive-behavioral interventions for worry and GAD in adults and older adults (e.g., Borkovec & Ruscio, 2001; Covin, Ouimet, Seeds, & Dozois, 2008; Gonçalves & Byrne, 2012; Hanrahan, Field, Jones, & Davey, 2013), GAD still remains the least successfully treated anxiety disorder (Brown, Barlow, & Liebowitz, 1994; Heimberg, Turk, & Mennin, 2004; Newman & Borkovec, 2002). On average, only 50% of individuals still no longer meet criteria for clinically significant change at 6 and 12-month follow-up (Borkovec & Costello, 1993; Borkovec, Newman, Pincus, & Lytle, 2002; Borkovec & Whisman, 1996; Dugas et al., 2003; Ladouceur et al., 2000; Wells et al., 2010). Therefore, the research community has since endeavored to enhance CBT through investigations into both the structure and focus of interventions. CBT protocols typically stipulate length and number of sessions. However, to improve endstate functioning, Borkovec and colleagues (2002) increased the amount of client contact time from a previous study (Borkovec & Costello) with the aim that individuals would further benefit from treatment. Despite additional contact time with the therapist, the rate of remission did not improve.

Likewise, CBT has been efficacious in reducing the core diagnostic symptoms of GAD, but researchers have raised concerns that cognitive-behavioral interventions do not adequately address other factors that potentially contribute to the development and maintenance of GAD. Recognizing that individuals with GAD do not simply struggle with chronic worry and anxiety, conceptual models of GAD predominantly focusing on clients' intraindividual cognitive and behavioral experiences have recently expanded to include interpersonal and affective domains of functioning. Accordingly, a more integrative therapeutic approach has been applied that addresses aspects of GAD not commonly included in a traditional CBT framework. To improve the efficacy of treatment, researchers have investigated and/or incorporated into their protocols interventions designed to target interpersonal and emotional dysfunction (Newman et al., 2011; Newman, Castonguay, Borkovec, Fisher, & Nordberg, 2008; Newman, Castonguay, Borkovec, & Molnar, 2004), avoidance of emotional contrasts, or sharp negative shifts in emotional state (Llera & Newman, 2010; Newman & Llera, 2011), emotion dysregulation (Mennin, 2004, 2006; Mennin, Heimberg, Turk, & Fresco, 2002, 2005; Salters-Pedneault, Roemer, Tull, Rucker, & Mennin, 2006), and acceptance and mindfulness (Roemer & Orsillo, 2002; Roemer & Orsillo, 2007; Roemer, Orsillo, & Salters-Pedneault, 2008). A couple of these integrative treatments resulted in greater endstate functioning at posttreatment compared to conventional cognitive-behavioral methods, ranging from 69% to 77% (Newman et al., 2011; Roemer et al., 2008).

Although clinical experiences often inform our empirical investigations into the phenomenology and treatment of psychiatric disorders, the dissemination of information critical to the psychological and emotional well being of our clients has traditionally been unidirectional, from laboratory to therapy office. Knowledge of the efficacy of treatment interventions for GAD predominantly derives from RCTs. Whereas RCTs contribute to the empirical foundation of CBT for GAD, there is a gap in our knowledge regarding how those treatments fare in real practice. Therefore, launching a systematic dialogue between researcher and practicing clinician can be instrumental in augmenting evidence-based therapies through identification of variables that promote and interfere with clinical effectiveness. Thus, an initiative spearheaded by Marvin Goldfried, Michelle Newman, Louis Castonguay, Jairo Fuertes, Jeffrey Magnavita, Linda Sobell, and Abraham Wolf, in collaboration with the American Psychological Association's Divisions 12 (Society of Clinical Psychology) and 29 (Psychotherapy), established a mechanism that has provided practicing therapists a voice in the research process and enabled them to report on their clinical experiences using empirically supported treatments for GAD and other anxiety disorders to the research community (see Goldfried et al., 2014, for a more thorough discussion of this initiative).

The current study reports on results of a survey administered to practicing clinicians where they indicated methods used in the assessment of GAD, cognitive-behavioral techniques used in the treatment of GAD, and perceived obstacles to GAD treatment efficacy. Recognizing that there may be unique and/or complex issues encountered in actual practice but not necessarily in the context of a controlled clinical trial, this study afforded clinicians an outlet to provide information on their experiences conducting empirically supported treatments for GAD, which in turn provides researchers with clinically derived directions for future empirical investigation into enhancing efficacy of GAD treatments.

Method

PARTICIPANTS

A total of 316 respondents initiated the survey. Survey completion was defined by answering at least one question on the final page of the survey. Using this definition, 260 respondents completed the survey. The average completion rate for survey completers was 95.4%, with a minimum completion rate of 79% and a maximum rate of 100%. The average completion rate for survey noncompleters (n = 56) was 55.4%, with a minimum completion rate of 3% and a maximum rate of 93%.

Survey completers (N = 260) and noncompleters (N = 56) were compared on demographic variables (see Table 1), therapist training and education variables (see Table 2), therapist characteristics (see Table 3), and therapist experience variables (see Table 4). Independent samples *t*-tests revealed no significant group differences on age, degree to which different theoretical orientations guided therapists' work, percent success in reducing GAD symptoms, and percent of GAD clients taking medication (see Tables 1 and 3). Pearson chi-square tests revealed no significant group differences on gender, ethnicity, highest degree, training in CBT for GAD, clinical setting, average client contact hours per week, years experience using CBT to treat GAD, and length of GAD treatment (see Tables 1, 2, and 4). However, survey completers significantly differed from noncompleters on years experience conducting psychotherapy and number of GAD clients treated (see Table 4). Both groups had similar proportions of respondents with 15 years of psychotherapy experience or less. However, a greater percentage of survey completers endorsed having 16 to 30 years of experience, whereas a greater proportion of noncompleters had over 30 years experience conducting psychotherapy. Survey completers also had a greater proportion of respondents who have treated over 30 clients with GAD. A greater percentage of noncompleters treated less than 30 clients with GAD.

The reported frequencies for this study are based on survey completers. Of the 260 completers, 151 (58.5%) were female and 107 (41.5%) were male, and ranged from 24 to 85 years old (M = 43.7; SD = 13.1). The majority of the sample identified

	Completers	Non-Completers			
	M (SD)	M (SD)	t	df	p
Age	N = 256 43.7 (13.1)	N = 42 43.4 (15.3)	0.134	296	0.894
	% (<i>n</i>)	% (<i>n</i>)	χ^2	df	
Gender	N = 258	N = 43	0.002	1	0.962
Male	41.5 (107)	41.9 (18)			
Female	58.5 (151)	58.1 (25)			
Ethnicity	N = 260	N = 44	12.382	7	0.089
Caucasian	86.9 (226)	84.1 (37)			
African American	1.2 (3)	4.5 (2)			
Hispanic/Latino	5.0 (13)	6.8 (3)			
Asian American	3.5 (9)	0 (0)			
Native American	0.4 (1)	0 (0)			
More than one ethnicity	0.8 (2)	0 (0)			
Other	1.9 (5)	0 (0)			
Rather not answer	0.4 (1)	4.5 (2)			

Table 1

Demographics

as Caucasian (n = 226; 86.9%). With regard to education, over half of the respondents had a doctorate in clinical psychology (n = 151; 58.3%), 25 (9.7%) had an MA in clinical psychology, 23 (8.9%) were current graduate students, and 14 had a Psy.D. (5.4%), with other types of training accounting for less than 20% of the completer

sample (see Table 2). For those respondents holding degrees, they were conferred between 1955 and 2011.

INSTRUMENT

The survey, jointly sponsored by Divisions 12 (Society for Clinical Psychology) and 29 (Psychotherapy) of

Table 2

Therapist Training and Education

	Completers	Non-Completers			
	% (<i>n</i>)	% (<i>n</i>)	χ^2	df	p
Highest degree completed	N = 259	<i>N</i> = 54	13.324	13	0.423
Ph.D. in clinical psychology	58.3 (151)	51.9 (28)			
Ph.D. in counseling psychology	1.5 (4)	0 (0)			
Ph.D. in educational psychology	1.2 (3)	0 (0)			
Ph.D. in social work	0.8 (2)	0 (0)			
Psy.D.	5.4 (14)	9.3 (5)			
M.D.	3.1 (8)	1.9 (1)			
Ed.D.	0.4 (1)	1.9 (1)			
DSW	0 (0)	1.9 (1)			
MSW	1.9 (5)	0 (0)			
MSc	2.7 (7)	1.9 (1)			
MA in clinical psychology	9.7 (25)	13.0 (7)			
MA in counseling psychology	1.2 (3)	3.7 (2)			
Graduate student	8.9 (23)	9.3 (5)			
Other	5.0 (13)	5.6 (3)			
Training in CBT for GAD	N = 260	N = 43			
Graduate school	65.8 (171)	76.7 (33)	2.020	1	0.155
Books, journals, videos	61.2 (159)	51.2 (22)	1.531	1	0.216
Workshops	44.6 (116)	30.2 (13)	3.122	1	0.077
Postdoctoral experience	34.6 (90)	30.2 (13)	0.316	1	0.574
Internship	31.9 (83)	30.2 (13)	0.049	1	0.825
Peer supervision	29.2 (76)	25.6 (11)	0.240	1	0.624
Other	10.0 (26)	7.0 (3)	0.390	1	0.532

Table 3 **Therapist Characteristics**

	Completers	Non-Completers			
	% (<i>M</i>)	% (<i>M</i>)	t	df	р
Degree theoretical orientations guide practice	N = 260	<i>N</i> = 41			
Cognitive	42.2	41.3	0.262	299	0.793
Behavioral	38.2	33.9	1.258	299	0.209
Psychodynamic	7.4	9.5	-0.644	44.788 ^a	0.523
Experiential/humanistic	5.0	3.5	1.069	299	0.286
Family systems	4.9	8.3	-1.542	45.202 ^b	0.130
Other	2.3	3.4	-0.794	299	0.513
Success in reducing GAD symptoms	N = 240	N = 31	1.448	269	0.149
	71.7	66.5			
GAD clients on medication	N = 227 55.6	N = 26 48.8	1.137	251	0.257

^a Equal variances not assumed based on significant Levene's test: F = 4.503, p = 0.035. ^b Equal variances not assumed based on significant Levene's test: F = 12.708, p < 0.001.

Table 4

Therapist Experience

	Completers	Non-Completers			
	% (n)	% (n)	χ^2	df	p
Psychotherapy experience	N = 256	<i>N</i> = 51	15.050*	6	0.020
Less than 5 years	21.9 (56)	23.5 (12)			
5 to 10 years	27.0 (69)	31.4 (16)			
11 to 15 years	10.9 (28)	7.8 (4)			
16 to 20 years	10.2 (26)	5.9 (3)			
21 to 30 years	18.4 (47)	3.9 (2)			
31 to 40 years	7.8 (20)	15.7 (8)			
Over 40 years	3.9 (10)	11.8 (6)			
Clinical setting	N = 260	N = 41			
Private practice	47.7 (124)	41.5 (17)	0.552	1	0.458
Outpatient treatment center	62.7 (163)	65.9 (27)	0.152	1	0.697
Counseling center	8.5 (22)	9.8 (4)	0.075	1	0.784
Inpatient unit	8.8 (23)	2.4 (1)	1.981	1	0.159
Weekly client contact	N = 260	N = 40	4.231	3	0.238
Less than 10 hours	33.8 (88)	45.0 (18)			
10 to 20 hours	35.0 (91)	35.0 (14)			
21 to 30 hours	20.0 (52)	7.5 (3)			
Over 30 hours	11.2 (29)	12.5 (5)			
Experience using CBT for GAD	N = 258	N = 51	3.178	4	0.529
Less than 10 years	58.5 (151)	64.7 (33)			
10 to 20 years	21.3 (55)	15.7 (8)			
21 to 30 years	13.2 (34)	7.8 (4)			
31 to 40 years	5.8 (15)	9.8 (5)			
Over 40 years	1.2 (3)	2.0 (1)			
Number of GAD clients treated	N = 259	N = 49	15.281*	6	0.018
Less than 10	29.3 (76)	38.8 (19)			
10 to 20	20.5 (53)	22.4 (11)			
21 to 30	8.5 (22)	20.4 (10)			
31 to 40	11.6 (30)	4.1 (2)			
41 to 50	6.9 (18)	6.1 (3)			
51 to 100	11.6 (30)	0 (0)			
Over 100	11.6 (30)	8.2 (4)			
Typical length of GAD treatment	N = 258	N = 42	3.873	3	0.275
Less than 3 months	14.7 (38)	11.9 (5)			
3 to 6 months	37.2 (96)	50.0 (21)			
6 months to a year	34.9 (90)	33.3 (14)			
Over a year	13.2 34)	4.8 (2)			

the American Psychological Association (APA), was designed to assess clinical experiences conducting empirically supported treatments for GAD. It was developed and revised in close collaboration with experts in research on GAD and its treatment and practicing clinicians who have experience delivering these interventions (e.g., Michelle Newman, Richard Heimberg, David Fresco, Douglas Mennin). Modifications were based on CBT manuals for GAD (Newman, 1998), expert feedback on the relevancy of items and need for additional content specific to the nature and treatment of GAD, and empirical literature on the phenomenology and treatment of GAD.

The final GAD survey consisted of items targeting respondent identifying information, including education and training, therapist psychotherapy experience, methods used in the assessment of GAD, cognitive-behavioral techniques used in the treatment of GAD, and eight categories perceived to limit successful symptom reduction related to GAD, individual client characteristics, and psychotherapy process and technique. Obstacles to treatment efficacy related to GAD included (a) symptoms related to worry and GAD and (b) client beliefs about GAD. Obstacles to treatment related to individual client characteristics included (c) other client problems and characteristics and (d) client's social system. Finally, obstacles to treatment related to psychotherapy process and technique included (e) client treatment expectations; (f) client motivation; (g) therapy relationship issues; and (h) cognitivebehavioral interventions. The survey also included a section whereby respondents indicated adaptations they made or could have made to resolve those issues attributed to barriers to successful treatment.

PROCEDURE

The general method is described in Goldfried et al. (2014). Mental health researchers and professionals were recruited to participate in a survey on clinicians' experiences using empirically supported treatments for GAD. The request for participants was posted on the websites, listservs, and in newsletters of the following U.S. professional organizations: APA Divisions 12 (Society for Clinical Psychology), 17 (Society of Counseling Psychology), 29 (Psychotherapy), and 42 (Psychologists in Independent Practice); Association for Behavioral and Cognitive Therapies (ABCT); Society for the Exploration of Psychotherapy Research (SEPI); and Society for Psychotherapy Research (SPR). Requests were also made on several English-speaking listservs throughout the world (e.g., Canada, the United Kingdom, Europe, and Australia). The online survey took approximately 10 minutes to complete and data were collected from March through June 2011. Survey responses were aggregated across respondents.

Results

THERAPIST TRAINING AND EXPERIENCE

Survey respondents mainly indicated taking a cognitive and behavioral approach to treatment. On average, cognitive and behavioral orientations guided 42.2% and 38.2% of their practice, respectively. The influence of psychodynamic, experiential/humanistic, family systems, and other orientations ranged from 2.3 to 7.4% (see Table 3). Training in CBT for GAD was predominantly received through graduate school (n = 171; 65.8%), books, journals, and videos (n = 159; 61.2%), and workshops (n = 116; 44.6%). Less than 35% of the sample had received training through internship, postdoctoral experience, or peer supervision (see Table 2).

Frequencies of responses to therapist experience are reported in Table 4. The majority of respondents had conducted psychotherapy for up to 10 years (n = 125; 48.9%) and had 20 contact hours or less with clients per week (n = 179; 68.8%). Respondents endorsed treating clients in outpatient clinics and treatment centers (n = 163; 62.7%), private practice (n = 124; 47.7%), counseling centers (n =22; 8.5%), and inpatient units (n = 23; 8.8%). With regard to experience treating individuals with GAD, most survey respondents endorsed up to 20 years of experience conducting ESTs for GAD (n = 206;79.8%) and had treated 30 clients with GAD or less (n = 151; 58.3%) for 3 months to a year (n =186; 72.1%). On average, respondents indicated that 71.9% of their GAD clients had comorbid disorders and 55.6% were on medications. They also reported an average success rate of 71.7% in reducing symptoms in GAD clients. Additionally, 66.3% (n = 175) of respondents indicated that more than symptom reduction is needed with their GAD clients.

ASSESSMENT AND TREATMENT OF GAD

Types of measures used to assess GAD symptoms before, during, and following treatment are depicted in Table 5. GAD symptoms were most commonly assessed using self-report measures at pre- and posttreatment and during the psychotherapy period (>80% of respondents). Likewise, 184 (70.8%) respondents used structured and semistructured interviews to evaluate GAD symptoms prior to the onset of treatment, but use of this type of instrument was significantly reduced once treatment had been initiated (<30% of the sample). Approximately half of the sample (46.5 to 55.1%) used unstructured or informal interviews to assess GAD symptoms during all time points. Although

	Pretreatment	Periodic Monitoring	Posttreatment
	N = 260	N = 256	N = 243
Self-report	81.5 (212)	84.8 (217)	81.1 (197)
Structured/semi-structured interview	70.8 (184)	21.5 (55)	30.0 (73)
Unstructured or informal interview	46.5 (121)	55.1 (141)	50.2 (122)
Clinician-administered measures	24.6 (64)	19.9 (51)	19.3 (47)
Planned behavioral test	5.4 (14)	16.8 (43)	12.8 (31)
Physiological assessment	4.2 (11)	4.3 (11)	2.5 (6)

Table 5 Assessment of GAD

Note. Cells depict percentage with sample size (n) in parentheses.

less frequently endorsed compared to self-report, interview, and clinician-administered measures, planned behavioral tests (16.8%) and physiological assessments (4.3%) were also used to periodically monitor symptom fluctuation during treatment.

Frequencies of responses to techniques used in conducting CBT for GAD are reported in Table 6. In addition to psychoeducation about the nature of worry, approximately 85% or more of the sample incorporated interventions that focused on identification and monitoring of worry, anxiety, and other cognitive, emotional, and/or somatic responses to worrisome situations, as well as interventions that targeted and challenged cognitive distortions. Many respondents also reported using more behavior-oriented techniques, such as behavioral experiments and exposure homework, relaxation training, identifying and preventing safety behaviors, breathing retraining, stimulus control for worry, and worry exposure or worry imagery exposure. In addition to the traditional cognitive-behavioral interventions for GAD, many respondents (n = 173; 66.5%) endorsed using mindfulness or acceptance-based methods, and close to half of the sample (n = 126; 48.5%)indicated helping their clients understand developmental roots of their fears and worries. The large majority of respondents use both cognitive and behavioral interventions during and between sessions in the context of individual therapy for GAD. Some of the least frequently endorsed (i.e., <40% of the sample) therapeutic techniques included motivational enhancement, communication training, resolution of worry conflicts, self-control desensitization, incorporation of feedback from others about clients' GAD, group therapy, and the exclusive use of either cognitive or behavioral interventions.

OBSTACLES TO TREATMENT EFFICACY

Limitations to Treatment Progress Related to GAD Frequencies of responses to perceived barriers to treatment progress related to GAD, such as symptomatology and associated features and client beliefs about GAD, are depicted in Table 7. The majority of respondents identified chronicity (n = 179; 71.6%) and severity (n = 152; 60.8%) as significant limitations to therapy efficacy. Functional impairment and attentional or information-processing biases toward negative information were identified as barriers to successful treatment by just over a third of the sample (n = 95; 38.0%). Panic attacks were not frequently endorsed as a limitation to treatment.

The three most commonly endorsed (>50% of the sample) problematic beliefs were that fears and worries were realistic, being generally anxious is part of the client's personality and therefore unchangeable, and problems were due to external factors, such as the situation or other people. Beliefs related to the positive perceived function of worry (i.e., worry helps prepare for the worst, prevents bad things from happening, enhances motivation, and facilitates problem solving) were identified between one quarter and one half of the sample as barriers to symptom reduction. Beliefs pertaining to the negative effects of worry and anxiety (i.e., being generally anxious is abnormal/dangerous, loss of vigilance/anxiety will negatively impact relationships) were cited least frequently as potential disruptions to treatment.

Limitations to Treatment Progress Related to Individual Client Characteristics

Frequencies of responses to perceived barriers to treatment progress related to the client (i.e., other client problems and characteristics and client social system) are reported in Table 8. At least half of the sample or more perceived that comorbid personality disorders, resistance to directiveness of treatment, chaotic lifestyle, inability to work independently between sessions, and a perfectionistic/obsessive style as potential barriers to treatment efficacy. Other client characteristics reported as limiting successful symptom reduction were limited premorbid functioning, substance abuse, depressed mood/mood disorder, and reluctance to relinquish safety behaviors (between 40% and 50% of the sample). The least frequently endorsed client problems (<20% of the

Table

Table 6 Techniques Used in Conducting CBT for GAD

	% (n)
	N = 260
Psychoeducation about the nature of worry	97.3 (253)
Identifying anxiety and worry triggers	95.4 (248)
Identifying negative thoughts and physical	93.5 (243)
sensations or emotions in response to	()
worrisome situations	
Individual therapy	90.4 (235)
Using both cognitive and behavioral interventions	89.2 (232)
Cognitive restructuring of negative/distorted	88.8 (231)
beliefs (e.g., putting situation into perspective)	()
Having client monitor worry and its outcome	85.4 (222)
Assigning out-of-session cognitive homework	81.5 (212)
Identifying and addressing directly intolerance of uncertainty	79.2 (206)
Assigning out-of-session behavioral experiments	78.8 (205)
Assigning out-of-session behavioral exposure homework	77.7 (202)
Identifying and addressing directly positive/ superstitious beliefs about worry	70.4 (183)
Relaxation training (e.g., progressive muscle	70.4 (183)
relaxation, applied relaxation training)	70.4 (100)
Identifying and preventing safety behaviors	67.7 (176)
Mindfulness or acceptance-based methods	66.5 (173)
Focus on in-session indicators of GAD as they arise	65.8(173)
Breathing retraining (e.g., diaphragmatic breathing)	65.8 (171)
Stimulus control for worry (e.g., picking a time and place for worry)	65.0 (169)
Worry exposure or worry imagery exposure	65.0 (160)
	65.0 (169)
Helping clarify what is important to clients	53.1 (138)
(i.e., values clarification)	E1 E (104)
Self-help readings	51.5 (134)
Enhancing self-efficacy in place of worry	50.4 (131)
Helping client understand developmental roots of fears and worries	48.5 (126)
Assertiveness training	44.2 (115)
Imagery training	43.5 (113)
Motivational enhancement	35.0 (91)
Communication training	32.7 (85)
Resolution of worrisome conflicts	32.2 (84)
Self-control desensitization (i.e., having client hold	26.2 (68)
onto worry trigger or worry outcome image while using relaxation to cope)	
Using feedback from others about clients' GAD	18.8 (49)
Group therapy	13.1 (34)
Using only cognitive interventions	3.8 (10)
(without behavioral interventions) Using only behavioral interventions	3.1 (8)
(without cognitive interventions)	0.1 (0)

sample) were history of physical or sexual abuse, low socioeconomic status, physical problems, fear of rejection, and diversity issues associated with ethnicity/ race/religion/sexual orientation.

7			

Perceived Barriers to Treatment Progress Related to GAD

	% (<i>n</i>)
GAD symptomatology and associated	N = 250
features	
Chronicity	71.6 (179)
Severity	60.8 (152)
Functional impairment (e.g., travel, work, school, social)	38.0 (95)
Attentional or information-processing	38.0 (95)
bias toward negative information	
Panic attacks	17.2 (43)
Client beliefs about GAD	N = 248
Fears and worries are realistic	56.0 (139)
Being generally anxious is part of	54.4 (135)
client's personality and unchangeable	
Problems are due to external factors	52.8 (131)
(e.g., situation, other people)	
Worry helps client prepare for the worst	42.7 (106)
Worry actually prevents bad things from happening	41.9 (104)
Worry helps client to be motivated to get things done	37.1 (92)
Worry helps client solve problems	28.6 (71)
Being generally anxious is abnormal/	24.6 (61)
dangerous	
GAD is biologically based	24.2 (60)
Loss of vigilance/anxiety will have negative impact on relationship(s)	20.6 (51)

As seen in Table 8, respondents most commonly identified the role social systems can play in reinforcing/supporting client's symptoms/ dependency, a high level of stress and dysfunction related to the social environment as impeding successful treatment (>50% of the sample). Social isolation of the client and lack of time due to other commitments were also identified as limiting factors. In addition to the quality of the social system, psychological problems (e.g., anxiety, controlling and critical behavior) in family members were also similarly endorsed as a barrier to CBT for GAD. The least frequently endorsed social factor was loss of family member, partner, or employment.

Limitations to Treatment Progress Related to Psychotherapy Process and Technique

Frequencies of responses to perceived barriers to treatment progress related to the psychotherapy process, including client treatment expectations, client motivation, and therapy relationship issues, are indicated in Table 9. The most commonly endorsed response (n = 150; 64.7%) was the belief that the therapist would do all the work to reduce symptoms and improve functioning, followed by pessimism about therapy (n = 133; 57.3%). More than half of the sample (n = 129; 55.6%) reported

Table 8 Perceived Barriers to Treatment Progress Related to the Client

Other client problems and characteristics $N = 260$ Personality disorders $63.5 (165)$ Resistance to directiveness of treatment $55.8 (145)$ (e.g., noncompliance with homework) $Chaotic lifestyle$ $51.5 (134)$ Inability to work independently between sessions $51.5 (134)$ Perfectionistic/obsessive style $50.0 (130)$ Premorbid functioning is limited $44.6 (116)$ Substance abuse $43.5 (113)$ Depressed mood/mood disorder $42.3 (110)$ Unwilling to give up safety behaviors $41.2 (107)$ Intellectual/cognitive/introspective ability $38.8 (101)$ is limited $35.0 (91)$ Poendency/unassertiveness $34.6 (90)$ Inability to identify automatic thoughts $33.5 (87)$ Low self-esteem/self-efficacy $30.8 (80)$ Psychotic disorder $29.2 (76)$ Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)Fear of exposure and associated emotional reactions $22.3 (58)$ Client expects/requests repeated reassurance $20.0 (52)$ History of trauma $22.3 (58)$ Client social system $N = 248$ Symptoms/dependency is reinforced/supported $58.1 (144)$ Stress very high at home, school/work, or socially $52.0 (129)$ rapped in a dysfunctional home, school/work, or socially $52.0 (129)$ Trapped in a dysfunctional home, school/work, or socially $52.0 (129)$ Social isolation of client $44.4 (110)$ Family members are very anxious $37.1 (92)$ <t< th=""><th></th><th>% (<i>n</i>)</th></t<>		% (<i>n</i>)
Resistance to directiveness of treatment (e.g., noncompliance with homework)55.8 (145)Chaotic lifestyle51.5 (134)Inability to work independently between sessions51.5 (134)Perfectionistic/obsessive style50.0 (130)Premorbid functioning is limited44.6 (116)Substance abuse43.5 (113)Depressed mood/mood disorder42.3 (110)Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability is limited35.0 (91)Poor interpersonal skills35.0 (91)Depnedency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation56.0 (139)Client social systemN = 248Symptoms/dependency is reinforced/supported56.0 (139)Trapped in a dysfunctional home, school/work, or socially56.0 (139)Trapped in a dysfunctiona	Other client problems and characteristics	<i>N</i> = 260
(e.g., noncompliance with homework)Chaotic lifestyle $51.5 (134)$ Inability to work independently between sessions $51.5 (134)$ Perfectionistic/obsessive style $50.0 (130)$ Premorbid functioning is limited $44.6 (116)$ Substance abuse $43.5 (113)$ Depressed mood/mood disorder $42.3 (110)$ Unwilling to give up safety behaviors $41.2 (107)$ Intellectual/cognitive/introspective ability $38.8 (101)$ is limited $50.0 (91)$ Poor interpersonal skills $35.0 (91)$ Dependency/unassertiveness $34.6 (90)$ Inability to identify automatic thoughts $33.5 (87)$ Inability to identify emotions $32.7 (85)$ Low self-esteem/self-efficacy $30.8 (80)$ Psychotic disorder $29.2 (76)$ Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment) $23.1 (60)$ Fear of exposure and associated emotional reactions $23.1 (60)$ History of trauma $22.3 (58)$ Client expects/requests repeated reassurance $20.0 (52)$ History of physical or sexual abuse $13.1 (34)$ Low socioeconomic status $11.2 (29)$ Physical problems $10.0 (26)$ Fear of rejection $9.2 (24)$ Diversity issues associated with ethnicity/race/ religion/sexual orientation $56.0 (139)$ Trapped in a dysfunctional home, school/work, or socially $56.0 (139)$ Trapped in a dysfunctional home, school/work, or socially $52.0 (129)$ Social isolation of client $44.4 (11$	Personality disorders	63.5 (165)
Chaotic lifestyle51.5 (134)Inability to work independently between sessions51.5 (134)Perfectionistic/obsessive style50.0 (130)Premorbid functioning is limited44.6 (116)Substance abuse43.5 (113)Depressed mood/mood disorder42.3 (110)Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability38.8 (101)is limited35.0 (91)Poor interpersonal skills35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)23.1 (60)reactions22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of trauma22.3 (58)Client social system9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation2.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially50.0 (139)Trapped in a dysfunctional home, school/work, or social51.0 (139)Trapped in a dysfunctional home, school/work, or social situation35.9 (89)Social isolation of client44.4 (110)Family members		55.8 (145)
Inability to work independently between sessions51.5 (134)Perfectionistic/obsessive style50.0 (130)Premorbid functioning is limited44.6 (116)Substance abuse43.5 (113)Depressed mood/mood disorder42.3 (110)Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability38.8 (101)is limited35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)23.1 (60)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation56.0 (139)Client social systemN = 248Symptoms/dependency is reinforced/supported social situation55.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	(e.g., noncompliance with homework)	
Perfectionistic/obsessive style50.0 (130)Premorbid functioning is limited44.6 (116)Substance abuse43.5 (113)Depressed mood/mood disorder42.3 (110)Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability38.8 (101)is limited35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported social situation56.0 (139)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Chaotic lifestyle	51.5 (134)
Premorbid functioning is limited44.6 (116)Substance abuse43.5 (113)Depressed mood/mood disorder42.3 (110)Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability38.8 (101)is limited35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation56.0 (139)Trapped in a dysfunctional home, school/work, or socially social situation51.0 (139)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family does not support treatment27.8 (69)	Inability to work independently between sessions	51.5 (134)
Substance abuse43.5 (113)Depressed mood/mood disorder42.3 (110)Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability38.8 (101)is limited35.0 (91)Poor interpersonal skills35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported social situation56.0 (139)Social isolation of client44.4 (110)Family members are very anxious social situation37.1 (92)Lack of time due to other commitments sp. (88)35.9 (89)Family does not support treatment27.8 (69)	Perfectionistic/obsessive style	50.0 (130)
Depressed mood/mood disorder42.3 (110)Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability38.8 (101)is limited35.0 (91)Poor interpersonal skills35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation56.0 (139)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially50.0 (139)Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)<	Premorbid functioning is limited	44.6 (116)
Unwilling to give up safety behaviors41.2 (107)Intellectual/cognitive/introspective ability38.8 (101)is limited38.8 (101)Poor interpersonal skills35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)23.1 (60)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social system Symptoms/dependency is reinforced/supported social situation58.1 (144)Stress very high at home, school/work, or socially52.0 (129)social isolation of client44.4 (110)Family members are very anxious social situation37.1 (92)Lack of time due to other commitments social situation35.9 (89)Family does not support treatment27.8 (69)	Substance abuse	43.5 (113)
Intellectual/cognitive/introspective ability38.8 (101)is limited35.0 (91)Poor interpersonal skills35.0 (91)Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially50.0 (139)Trapped in a dysfunctional home, school/work, or socially52.0 (129)social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Depressed mood/mood disorder	42.3 (110)
is limited Poor interpersonal skills 35.0 (91) Dependency/unassertiveness 34.6 (90) Inability to identify automatic thoughts 33.5 (87) Inability to identify emotions 32.7 (85) Low self-esteem/self-efficacy 30.8 (80) Psychotic disorder 29.2 (76) Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment) Fear of exposure and associated emotional 23.1 (60) reactions 23.1 (60) reactions 22.3 (58) Client expects/requests repeated reassurance 20.0 (52) History of physical or sexual abuse 13.1 (34) Low socioeconomic status 11.2 (29) Physical problems 10.0 (26) Fear of rejection 9.2 (24) Diversity issues associated with ethnicity/race/ 2.7 (7) religion/sexual orientation $N = 248$ Symptoms/dependency is reinforced/supported 58.1 (144) Stress very high at home, school/work, or socially Trapped in a dysfunctional home, school/work, or social situation Social isolation of client 44.4 (110) Family members are very anxious 37.1 (92) Lack of time due to other commitments 35.9 (89) Family is controlling and critical 35.5 (88) Family does not support treatment 27.8 (69)	Unwilling to give up safety behaviors	41.2 (107)
Dependency/unassertiveness34.6 (90)Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially52.0 (129)social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)		38.8 (101)
Inability to identify automatic thoughts33.5 (87)Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Poor interpersonal skills	35.0 (91)
Inability to identify emotions32.7 (85)Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27. (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family does not support treatment27.8 (69)	Dependency/unassertiveness	34.6 (90)
Low self-esteem/self-efficacy30.8 (80)Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27. (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially52.0 (129)social situation37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Inability to identify automatic thoughts	33.5 (87)
Psychotic disorder29.2 (76)Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27. (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Inability to identify emotions	
Problems with medication (e.g., insufficient dosage, frequent changes in dosage during treatment)24.2 (63) freatment)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially social situation56.0 (139)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Low self-esteem/self-efficacy	30.8 (80)
frequent changes in dosage during treatment)Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27. (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Psychotic disorder	29.2 (76)
Fear of exposure and associated emotional reactions23.1 (60)History of trauma22.3 (58)Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation27.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)		24.2 (63)
Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation2.7 (7)Client social system $N = 248$ Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially52.0 (129)social sibuation37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Fear of exposure and associated emotional	23.1 (60)
Client expects/requests repeated reassurance20.0 (52)History of physical or sexual abuse13.1 (34)Low socioeconomic status11.2 (29)Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation2.7 (7)Client social system $N = 248$ Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially52.0 (129)social sibuation37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	History of trauma	22.3 (58)
History of physical or sexual abuse $13.1 (34)$ Low socioeconomic status $11.2 (29)$ Physical problems $10.0 (26)$ Fear of rejection $9.2 (24)$ Diversity issues associated with ethnicity/race/ religion/sexual orientation $2.7 (7)$ Client social system $N = 248$ Symptoms/dependency is reinforced/supported $58.1 (144)$ Stress very high at home, school/work, or socially $56.0 (139)$ Trapped in a dysfunctional home, school/work, or social situation $37.1 (92)$ Social isolation of client $44.4 (110)$ Family members are very anxious $35.9 (89)$ Family is controlling and critical $35.5 (88)$ Family does not support treatment $27.8 (69)$	Client expects/requests repeated reassurance	20.0 (52)
Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation2.7 (7)Client social system $N = 248$ Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)		
Physical problems10.0 (26)Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation2.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Low socioeconomic status	11.2 (29)
Fear of rejection9.2 (24)Diversity issues associated with ethnicity/race/ religion/sexual orientation2.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or52.0 (129)social situation37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Physical problems	
Diversity issues associated with ethnicity/race/ religion/sexual orientation2.7 (7)Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social situation44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Fear of rejection	
Client social systemN = 248Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Diversity issues associated with ethnicity/race/	
Symptoms/dependency is reinforced/supported58.1 (144)Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or52.0 (129)social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)		N = 248
Stress very high at home, school/work, or socially56.0 (139)Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social isolation of client44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)		58.1 (144)
Trapped in a dysfunctional home, school/work, or social situation52.0 (129)Social situation44.4 (110)Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)		
Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Trapped in a dysfunctional home, school/work, or	
Family members are very anxious37.1 (92)Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Social isolation of client	44.4 (110)
Lack of time due to other commitments35.9 (89)Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)	Family members are very anxious	
Family is controlling and critical35.5 (88)Family does not support treatment27.8 (69)		
Family does not support treatment27.8 (69)	Family is controlling and critical	
		()

as a barrier the expectation that therapy would free the client of all anxiety and worry. Over one third of the sample (37.1%) indicated that the client's beliefs that medication was needed to reduce anxiety and worry and that treatment would be brief and easy as additional barriers. The least frequently cited obstacle (n = 52; 22.4%) was the expectation that symptom reduction was not enough, indicating the perception that most clients were satisfied with symptom remission.

With regard to client motivation (see Table 9), the two most frequently cited issues were minimal

Table 9

Perceived Barriers to Treatment Progress Related to the Psychotherapy Process

	% (<i>n</i>)
Client treatment expectations	N = 232
Therapist will do all the work to make things better	64.7 (150)
Pessimism about therapy (e.g., due to disappointment with past therapy)	57.3 (133)
Client will be free of all anxiety and worry	55.6 (129)
Client needs medication to reduce anxiety and worry	37.1 (86)
Treatment will be brief and easy	35.3 (82)
Symptom reduction is not enough	22.4 (52)
Client motivation	N = 230
Minimal motivation at outset	59.6 (137)
Premature termination	57.8 (133)
Motivation decreased as client attributes gains to medications	37.0 (85)
Motivation decreased as some improvement occurs	26.1 (60)
Motivation decreased as client better understands nature and function of worry/GAD	12.2 (28)
Therapy relationship issues	<i>N</i> = 172
Therapy alliance not strong enough	48.8 (84)
Client doesn't feel his/her distress is sufficiently understood/validated	41.9 (72)
Therapist's frustration with progress	37.8 (65)
Therapist's reluctance to make client uncomfortable during exposure	34.3 (59)
Therapist's negative feelings toward client	27.9 (48)

motivation at outset and premature termination (>50% of the sample). Less than 40% of the sample identified decreased motivation due to attributing gains to medication, experiencing some improvement in symptoms, or better understanding the nature and function of GAD.

Therapy relationship issues, the results of which are reported in Table 9, were also examined as perceived barriers to treatment progress. Almost half of respondents (n = 84; 48.8%) perceived that a tenuous therapy alliance could impede treatment. Approximately 40% of the sample reported encountering problems conducting CBT for GAD when their clients felt as if their distress was not sufficiently understood or validated. The three least endorsed therapeutic relationship issues (<40%) pertained to negative experiences of the therapist (e.g., frustration with progress, reluctance to challenge a client during exposure, negative feelings toward the client).

Finally, frequencies of responses to perceived barriers to treatment progress related to problems/ limitations associated with the cognitive-behavioral method are indicated in Table 10. Similar to therapy relationship issues, none of the problems related to cognitive-behavioral techniques were endorsed as obstacles to treatment by a majority of the sample. Table 10

Perceived Barriers to Treatment Progress Related to Problems/ Limitations Associated With the Cognitive-Behavioral Intervention

	% (<i>n</i>)
	N = 220
Does not deal with comorbid problems/symptoms	40.0 (88)
Insufficient focus on affect tolerance/regulation	39.1 (86)
Simulating anxiety-provoking situations in sessions is difficult	36.4 (80)
Relaxation does not work or causes anxiety	35.5 (78)
Does not deal with interpersonal problems	30.9 (68)
Worry and anxiety triggers not evident	27.3 (60)
Absence of guidelines for dealing with resistance/noncompliance	26.4 (58)
Does not deal with linking GAD to other clinical issues	24.1 (53)
Not enough time for client to respond to treatment within the time frame of a CBT manual (i.e., if using a manual	23.6 (52)
in regular practice)	
Strict adherence to CBT protocol	22.7 (50)
Client not sufficiently socialized to treatment model	19.5 (43)
Too much time spent lecturing/on psychoeducation	19.1 (42)
Treatment too directive	18.2 (40)
Does not deal with fear of interpersonal loss	15.5 (34)
Triggers for worry and anxiety are not linked to clients' history	13.6 (30)
Too much between-session homework assigned	10.9 (24)
Does not deal with comprehensive or lasting change	10.0 (22)
Current coping skills are not linked to past	9.5 (21)

However, the issues that generated the most endorsements among participants, cited by approximately 40% of the sample, were that treatment did not deal with comorbid problems/symptoms and insufficiently addressed affect tolerance/regulation, which underscores the lack of focus of traditional cognitivebehavioral frameworks on affective experience and comorbid issues. The next most frequently reported problems related to the challenge in executing CBT and potential negative consequences [i.e., difficulty simulating anxiety-provoking situations in session, relaxation was not effective and elicited anxiety in the client (more than one third of the sample)]. The fewest respondents (<11%) indicated that CBT for GAD incorporated too much between-session homework, did not effectively deal with comprehensive or lasting change, and failed to link current coping skills to the client's past experiences.

Discussion

Cognitive-behavioral therapy is a widely researched, well-validated, and extensively used treatment for

GAD in clinical settings. In an effort to open communication between researchers and clinicians, this study aimed to obtain feedback from practicing clinicians on their experiences conducting empirically supported treatments for GAD. Therapists provided information on techniques used in the assessment and treatment of GAD and on obstacles to treatment efficacy. It is important to note that respondents reported an approximate success rate of 72% in reducing GAD symptoms. This rate exceeds that of controlled clinical trials examining the efficacy of conventional CBT, and is comparable to rates reported in trials of integrative therapies for GAD (e.g., interpersonal-experiential psychotherapy, mindfulness-based CBT). This symptom reduction rate speaks to the generalizability of CBT for GAD to real practice. Given that many clinicians seem to be successful in the treatment of this chronic clinical condition, findings related to the assessment and treatment of GAD and perceived challenges to treatment are interpreted as ways to further enhance understanding of the nature of worry and GAD, training in and execution of CB techniques for GAD, and empirical investigation aimed at bridging the gap between research and practice.

Evaluation of functional domains through multimodal assessment could improve GAD case conceptualization (Antony & Rowa, 2005) and influence treatment goals. Domains of assessment in anxiety disorders, specifically GAD, may include diagnostic features, anxiety/worry cues and triggers (e.g., somatic, cognitive, environmental), potential avoidance and safety behaviors, physical symptoms and responses, skills deficits, associated distress and functional impairment, development and course of the problem, psychiatric and medical histories, environmental and family factors, and associated problems and comorbidity (Antony & Rowa, 2005). Respondents reported using a variety of assessment measures to examine baseline and change in GAD symptoms. Assessment methods varied based on the phase of treatment. For example, self-report measures were most commonly and equally used across the treatment period, but structured or semistructured interviews were predominantly used to assess GAD symptoms prior to treatment. Planned behavioral tests and physiological assessments were more frequently employed during periodic monitoring of symptoms. This type of assessment is important since worry may interfere with the emotional processing of aversive stimuli (Borkovec & Hu, 1990; Llera & Newman, 2010; Newman & Llera, 2011). However, fewer respondents reported using behavioral and physiological measures than clinician-administered or self-report instruments, which may be due to their reduced feasibility and cost-effectiveness in clinical practice.

Therefore, self-report, clinician-administered, and unstructured instruments are likely more practical and efficient methods to assess GAD symptoms and associated features. Although respondents indicated which assessment tools they used, it is not evident how frequently they engage in periodic monitoring. It is common for individuals with GAD to perceive themselves as having been worriers their whole lives. With regard to the pattern of their worry and anxiety, it is likely to vary on a daily basis, and even within days. Therefore, ongoing self-monitoring of symptoms and degree of impairment is important for fluid case formulation and elucidating the nature and course of clients' GAD. This type of assessment is especially critical given GAD's fluctuating course over time. Self-monitoring is used to track temporal patterns of worry and related maladaptive, intrusive thoughts in reaction to specific precipitants and life stressors. Identification of internal and external worry and anxiety cues through the use of repeated longitudinal data collection, such as a daily diary where these processes are recorded at regular intervals throughout the day, helps clients to (a) enhance awareness of maladaptive patterns of responding; (b) focus on the here-and-now to remedy their general preoccupation with potential negative outcomes; (c) recognize shifts in internal state; (d) diminish negative information processing biases; (e) effectively apply strategies to correct maladaptive response patterns; and (f) respond more flexibly to environmental demands (Newman & Borkovec, 2002). Diaries may also be used to examine intraindividual variation in symptoms (e.g., Fisher, Newman, & Molenaar, 2011; Newman & Fisher, 2013), daily functioning, and therapeutic progress. Determining where and when maintenance factors occur can serve as a framework for delivering targeted interventions and potentially can enhance the timing of interventions.

To illustrate, a number of beliefs related to the positive perceived function of worry were identified as impeding treatment progress. These beliefs, theorized to maintain GAD despite its degree of associated impairment in various areas of functioning, appear to be undermining the effectiveness of treatment in real practice. The more clients believe that worry helps them to prepare for the worst, the more resistant they may be to addressing their worry in treatment and working independently between sessions. Survey findings suggest that these beliefs may be complicated by other characteristics of the client or social system, such as a chaotic lifestyle or dysfunctional home life, a perfectionistic/obsessive coping style, reliance on safety behaviors, limited self-esteem/self-efficacy, and others reinforcing their symptoms. This underscores the need to periodically

assess and modify relevant internal and environmental antecedents and consequences of clients' worry and anxiety.

With regard to treatment techniques for GAD, almost all respondents indicated using psychoeducation. This intervention is key, especially during early treatment, since individuals with GAD typically view their worry and anxiety as facets of their personality, and therefore unlikely to be changeable. Given worry's perceived role as a coping strategy used to avoid potential threat and sharp emotional shifts, it is not surprising that some of the most commonly used cognitive-behavioral interventions center on addressing clients' maladaptive cognitions. Behavioral interventions (e.g., relaxation training, breathing retraining, identifying and preventing safety behaviors, stimulus control for worry) were also among the more common techniques used to address the elevated anxiety and muscle tension typical of GAD. Although not as common as the more traditional cognitive-behavioral interventions for GAD, approximately half of the sample or more has incorporated more integrative elements into their treatment, such as emotion-focused, mindfulness or acceptance-based methods and enhancing understanding of one's worry and anxiety developmental history. Integration of these interventions into a cognitive-behavioral framework is a way to address CBT's limited focus on emotional deficits observed in individuals with GAD, as indicated by approximately one quarter to one third of the sample. However, none of the perceived barriers to treatment progress related to limitations associated with CBT was endorsed by a majority of respondents, consistent with the high treatment success rate reported by respondents. Whereas respondents identified various types of comorbidity as potential complicating factors (e.g., personality disorders, substance abuse, depressed mood/mood disorder), some studies do suggest that treating clients within a cognitive-behavioral framework not only addresses core GAD symptoms, but also helps to remediate comorbid issues (Newman, Przeworski, Fisher, & Borkovec, 2010).

Several perceived limitations related to the actual conduct of CBT were reported. These include difficulty simulating anxiety-provoking situations in session, finding that relaxation does not work or causes anxiety, not sufficiently socializing clients to the treatment model, and being reluctant to make clients uncomfortable during exposure. Although each of these limitations was endorsed by approximately one third of the sample, they underscore a potential training issue. If therapists feel uncomfortable conducting a particular intervention, especially those with less experience, and approach the technique with some trepidation, clients may become aware of the therapist's discomfort, which could undermine the efficacy of the treatment. To facilitate administration of CB techniques and enhance expertise in models and methods of therapeutic change, it is important to seek supervision, consult with colleagues, and attend trainings and workshops.

Ultimately, therapists should aim to foster collaboration, inviting clients to be active participants in all phases of the therapy process, including assessment, establishing treatment goals, and engaging in withinand between-session activities and interventions. In light of half of respondents or more indicating that issues with motivation and expectancy serve as barriers to treatment progress, cultivating positive treatment expectations and addressing erroneous beliefs may enhance motivation at onset, prevent premature termination, limit frustration with the therapy process, and promote positive outcomes. By discussing the function of treatment during initial sessions, such as emphasizing that therapy is not designed to eliminate anxiety and worry completely, but rather it aims to enhance clients' ability to cope with stressors, clients are less likely to become discouraged when they feel challenged.

Likewise, approximately one third to one half of respondents reported that a weak therapy alliance and negative feelings toward their clients hindered treatment. In an effort to address these issues, the therapist and client may work toward goals that strike a balance between what the client wants and needs to function in a more adaptive manner. Therapists are also encouraged to actively gauge the climate of the therapy room through monitoring and interpreting clients' behavior, while maintaining a structured approach to treatment and adhering to therapeutic goals. Subsequently, alliance ruptures are either less likely to emerge or more likely to be repaired, clients are more likely to feel understood and validated, and therapists are less likely to become frustrated with a lack of therapeutic progress.

The current study has several limitations that have implications for future research on clinical experiences conducting empirically supported treatments for psychological disorders. Although the majority of respondents indicated using cognitive and behavioral interventions, we did not determine the frequency with which they adhere to specific treatment manuals, use a more principle-based cognitive-behavioral case conceptualization and treatment approach, or apply these interventions in their practice on an as-needed basis. Whereas RCTs often assess adherence to a protocol to enhance the study's internal validity, it would be beneficial to examine such adherence in regular clinical practices as well as the differential efficacy between manualized and nonmanualized CBT and factors that may interfere with adhering to a specific manual in practice. Furthermore, although respondents reported which cognitive-behavioral interventions they used to address GAD symptoms and associated features, it is unclear the degree to which their report matched their actual behavior, the amount of time spent on any one technique, and whether their application of various techniques differed based on phase of treatment. For example, psychoeducation and relaxation techniques predominantly may be used early in treatment, whereas cognitive techniques may be introduced after clients learn skills to regulate their elevated anxiety.

We also found significant differences between survey completers and noncompleters with respect to psychotherapy experience and number of GAD clients treated. The distribution of noncompleters appears to be bimodal in terms of psychotherapy experience; a greater percentage of noncompleters had 10 years or less experience and more than 30 years of experience than completers. Additionally, noncompleters had treated fewer GAD clients, despite the bimodal distribution of psychotherapy experience. It is possible that experience using CBT for GAD dictated senior and junior clinicians' choice not to complete the survey as these individuals may have felt less qualified to do so. Therefore, our findings may not generalize to therapists who have not treated many GAD clients. Also, the majority of respondents had doctoral or master's degrees in clinical psychology. The sample underrepresented mental health professionals in other fields (e.g., social workers, psychiatrists, counselors). Greater efforts should be made to disseminate future surveys to a broader range of professional networks to ensure a greater representation of mental health service providers.

Moreover, this survey did not inquire about how frequently each of the limitations occurred during the course of treatment and the degree of interference they caused. Although a particular obstacle may be perceived as common (e.g., severity and chronicity of GAD, presence of personality comorbidity, limited motivation at the onset of treatment), therapists were not asked to report the percentage of time that particular client characteristic actually interfered with treatment efficacy. Conversely, a limitation endorsed by a minority of respondents may more significantly derail treatment when encountered, thereby warranting immediate attention. To illustrate, physical problems, low socioeconomic status, and loss of employment, issues endorsed by less than 15% of the sample, could prevent clients from attending therapy to the point that progress is hindered. Likewise, clients' potential fear of rejection

and expectation of reassurance from the therapist could influence the therapeutic relationship and preclude their taking risks in treatment. Furthermore, therapists were not asked whether they felt that in the end they were able to overcome each of these obstacles within the confines of CBT. A question we did not ask—but which would be important to investigate—is whether the obstacles noted were perceived as being specific to CBT or were obstacles typical of any approach to GAD treatment. Ultimately, the differential degree of interference caused by various treatment barriers underscores the importance of effectively balancing working within a more structured CBT framework with flexibility in the process.

In future studies, it would be valuable to obtain the degree to which clinicians use certain cognitivebehavioral interventions, at what phase(s) these interventions are typically conducted, the frequency various treatment limitations occur, the degree of interference engendered, and the specificity of the obstacle to CBT. In the interest of enhancing training, future studies might also examine the relationship between therapist variables and types of interventions used and limitations encountered. Thus, the goal would be to determine whether such variables as years experience conducting psychotherapy, average client contact hours per week, years experience using CBT to treat GAD, and number of GAD clients treated interact with how the obstacles found in this survey are handled.

Conflict of Interest Statement

The authors declare that there are no conflicts of interest.

References

- Antony, M. M., & Rowa, K. (2005). Evidence-based assessment of anxiety disorders in adults. *Psychological Assessment*, 17(3), 256–266. http://dx.doi.org/10.1037/1040-3590.17.3.256
- American Psychiatric Association. (2000). *Diagnostic and statistical manual of mental disorders* (4th ed. text revision). Washington, DC: Author.
- Borkovec, T. D., & Costello, E. (1993). Efficacy of applied relaxation and cognitive-behavioral therapy in the treatment of generalized anxiety disorder. *Journal of Consulting and Clinical Psychology*, 61(4), 611–619. http://dx.doi.org/ 10.1037/0022-006X.61.4.611
- Borkovec, T. D., & Hu, S. (1990). The effect of worry on cardiovascular response to phobic imagery. *Behaviour Research and Therapy*, 28(1), 69–73. http://dx.doi.org/ 10.1016/0005-7967(90)90056-O
- Borkovec, T. D., Newman, M. G., Pincus, A. L., & Lytle, R. (2002). A component analysis of cognitive-behavioral therapy for generalized anxiety disorder and the role of interpersonal problems. *Journal of Consulting and Clinical Psychology*, 70(2), 288–298. http://dx.doi.org/10.1037/ 0022-006X.70.2.288
- Borkovec, T. D., & Roemer, L. (1995). Perceived functions of worry among generalized anxiety disorder subjects: Distraction from more emotionally distressing topics?

Journal of Behavior Therapy and Experimental Psychiatry, 26(1), 25–30. http://dx.doi.org/10.1016/0005-7916(94) 00064-S

- Borkovec, T. D., & Ruscio, A. M. (2001). Psychotherapy for generalized anxiety disorder. *Journal of Clinical Psychiatry*, 62(Suppl. 11), 37–45.
- Borkovec, T. D., & Whisman, M. A. (1996). Psychosocial treatment for generalized anxiety disorder. In M. R. Mavissakalian & R. F. Prien (Eds.), *Long-term treatments* of anxiety disorders (pp. 171–199). Washington, DC: American Psychiatric Association.
- Brown, T. A., Barlow, D. H., & Liebowitz, M. R. (1994). The empirical basis of generalized anxiety disorder. *American Journal of Psychiatry*, 151(9), 1272–1280.
- Bruce, S. E., Yonkers, K. A., Otto, M. W., Eisen, J. L., Weisberg, R. B., Pagano, M., . . . Keller, M. B. (2005). Influence of psychiatric comorbidity on recovery and recurrence in generalized anxiety disorder, social phobia, and panic disorder: A 12-year prospective study. *American Journal of Psychiatry*, 162(6), 1179–1187. http://dx.doi.org/10.1176/ appi.ajp.162.6.1179
- Chambless, D. L., & Hollon, S. D. (1998). Defining empirically supported therapies. *Journal of Consulting and Clinical Psychology*, 66(1), 7–18. http://dx.doi.org/10.1037/0022-006X.66.1.7
- Covin, R., Ouimet, A. J., Seeds, P. M., & Dozois, D. J. (2008). A meta-analysis of CBT for pathological worry among clients with GAD. *Journal of Anxiety Disorders*, 22(1), 108–116. http://dx.doi.org/10.1016/j.janxdis.2007.01.002
- Dugas, M. J., & Ladouceur, R. (2000). Treatment of GAD: Targeting intolerance of uncertainty in two types of worry. *Behavior Modification*, 24(5), 635–657. http://dx.doi.org/ 10.1177/0145445500245002
- Dugas, M. J., Ladouceur, R., Leger, E., Freeston, M. H., Langolis, F., Provencher, M. D., & Boisvert, J. M. (2003). Group cognitive-behavioral therapy for generalized anxiety disorder: Treatment outcome and long-term follow-up. *Journal of Consulting and Clinical Psychology*, 71(4), 821–825. http://dx.doi.org/10.1037/0022-006X.71.4.821
- Fisher, A. J., Newman, M. G., & Molenaar, P. C. M. (2011). A quantitative method for the analysis of nomothetic relationships between idiographic structures: Dynamic patterns create attractor states for sustained posttreatment change. *Journal of Consulting and Clinical Psychology*, 79(4), 552–563. http://dx.doi.org/10.1037/a0024069
- Goldfried, M. R., Newman, M. G., Castonguay, L. G., Fuertes, J. N., Magnavita, J. J., Sobell, L., & Wolf, A. W. (2014). On the dissemination of clinical experiences in using empirically supported treatments. *Behavior Therapy*, 45(1), 3–6.
- Gonçalves, D. C., & Byrne, G. J. (2012). Interventions for generalized anxiety disorder in older adults: Systematic review and meta-analysis. *Journal of Anxiety Disorders*, 26(1), 1–11. http://dx.doi.org/10.1016/j.janxdis.2011.08.010
- Grant, B. F., Hasin, D. S., Stinson, F. S., Dawson, D. A., June Ruan, W., Goldstein, R. B., . . . Huang, B. (2005). Prevalence, correlates, co-morbidity, and comparative disability of DSM-IV generalized anxiety disorder in the USA: Results from the National Epidemiologic Survey on Alcohol and Related Conditions. *Psychological Medicine*, 35(12), 1747–1759. http://dx.doi.org/10.1017/S0033291705006069
- Hanrahan, F., Field, A. P., Jones, F. W., & Davey, G. C. (2013). A meta-analysis of cognitive therapy for worry in generalized anxiety disorder. *Clinical Psychology Review*, 33(1), 120–132. http://dx.doi.org/10.1016/j.cpr.2012.10.008
- Heimberg, R. G., Turk, C. L., & Mennin, D. S. (Eds.). (2004). Generalized anxiety disorder: Advances in research and practice. New York, NY: Guilford Press.

- Kessler, R. C., Berglund, P., Demler, O., Jin, R., Merikangas, K. R., & Walters, E. E. (2005). Lifetime prevalence and age-of-onset distributions of DSM-IV disorders in the National Comorbidity Survey Replication. Archives of General Psychiatry, 62(6), 593–602. http://dx.doi.org/10.1001/archpsyc.62.6.593
- Ladouceur, R., Dugas, M. J., Freeston, M. H., Leger, E., Gagnon, F., & Thibodeau, N. (2000). Efficacy of a cognitive-behavioral treatment for generalized anxiety disorder: Evaluation in a controlled clinical trial. *Journal* of Consulting and Clinical Psychology, 68(6), 957–964. http://dx.doi.org/10.1037/0022-006X.68.6.957
- Llera, S. J., & Newman, M. G. (2010). Effects of worry on physiological and subjective reactivity to emotional stimuli in generalized anxiety disorder and nonanxious control participants. *Emotion*, 10(5), 640–650. http://dx.doi.org/ 10.1037/a0019351
- Mathews, A., & MacLeod, C. (1994). Cognitive approaches to emotion and emotional disorders. *Annual Review of Psychology*, 45, 25–50. http://dx.doi.org/10.1146/annurev. ps.45.020194.000325
- Mennin, D. S. (2004). Emotion regulation therapy for generalized anxiety disorder. *Clinical Psychology & Psychotherapy*, 11(1), 17–29. http://dx.doi.org/10.1002/cpp.389
- Mennin, D. S. (2006). Emotion regulation therapy: An integrative approach to treatment-resistant anxiety disorders. *Journal of Contemporary Psychotherapy*, 36(2), 95–105. http://dx.doi.org/10.1007/s10879-006-9012-2
- Mennin, D. S., Heimberg, R. G., Turk, C. L., & Fresco, D. M. (2002). Applying an emotion regulation framework to integrative approaches to generalized anxiety disorder. *Clinical Psychology: Science and Practice*, 9(1), 85–90. http://dx.doi.org/10.1093/clipsy.9.1.85
- Mennin, D. S., Heimberg, R. G., Turk, C. L., & Fresco, D. M. (2005). Preliminary evidence for an emotion dysregulation model of generalized anxiety disorder. *Behaviour Research* and Therapy, 43(10), 1281–1310. http://dx.doi.org/10.1016/ j.brat.2004.08.008
- Newman, M. G. (1998). Interpersonal and emotional processing therapy for generalized anxiety disorder. Unpublished manual.
- Newman, M. G., & Borkovec, T. D. (2002). Cognitive behavioral therapy for worry and generalized anxiety disorder. In G. Simos (Ed.), Cognitive behaviour therapy: A guide for the practising clinician (pp. 150–172). New York, NY: Taylor & Francis.
- Newman, M. G., Castonguay, L. G., Borkovec, T. D., Fisher, A. J., Boswell, J. F., Szkodny, L. E., & Nordberg, S. S. (2011). A randomized controlled trial of cognitive-behavioral therapy for generalized anxiety disorder with integrated techniques from emotion-focused and interpersonal therapies. *Journal of Consulting and Clinical Psychology*, 79(2), 171–181. http://dx.doi.org/10.1037/a0022489
- Newman, M. G., Castonguay, L. G., Borkovec, T. D., Fisher, A. J., & Nordberg, S. S. (2008). An open trial of integrative therapy for generalized anxiety disorder. *Psychotherapy: Theory, Research, Practice, Training*, 45(2), 135–147. http://dx.doi.org/10.1037/0033-3204.45.2.135
- Newman, M. G., Castonguay, L. G., Borkovec, T. D., & Molnar, C. (2004). Integrative psychotherapy. In R. G. Heimberg, C. L. Turk, & D. S. Mennin (Eds.), *Generalized* anxiety disorder: Advances in research and practice (pp. 320–350). New York, NY: Guilford Press.
- Newman, M. G., & Fisher, A. J. (2010). Expectancy/credibility change as a mediator of cognitive behavioral therapy for generalized anxiety disorder: Mechanism of action or proxy for symptom change? *International Journal of Cognitive Therapy*, 3, 245–261. http://dx.doi.org/10.1521/ijct.2010.3.3.245
- Newman, M. G., & Fisher, A. J. (2013). Mediated moderation in combined cognitive behavioral therapy versus component treat-

ments for generalized anxiety disorder. Journal of Consulting and Clinical Psychology, 81(3), 405–414. http://dx.doi.org/ 10.1037/a0031690

- Newman, M. G., & Llera, S. J. (2011). A novel theory of experiential avoidance in generalized anxiety disorder: A review and synthesis of research supporting a contrast avoidance model of worry. *Clinical Psychology Review*, 31(3), 371–382. http://dx.doi.org/10.1016/j.cpr.2011.01.008
- Newman, M. G., Przeworski, A., Fisher, A. J., & Borkovec, T. D. (2010). Diagnostic comorbidity in adults with generalized anxiety disorder: Impact of comorbidity on psychotherapy outcome and impact of psychotherapy on comorbid diagnoses. *Behavior Therapy*, 41(1), 59–72. http://dx.doi.org/ 10.1016/j.beth.2008.12.005
- Newman, M. G., Stiles, W. B., Janeck, A., & Woody, S. R. (2006). Integration of therapeutic factors in anxiety disorders. In L. G. Castonguay & L. E. Beutler (Eds.), *Principles of therapeutic change that work* (pp. 187–202). New York, NY: Oxford University Press.
- Rodriguez, B. F., Weisberg, R. B., Pagano, M. E., Bruce, S. E., Spencer, M. A., Culpepper, L., & Keller, M. B. (2006). Characteristics and predictors of full and partial recovery from generalized anxiety disorder in primary care patients. *Journal of Nervous and Mental Disease*, 194(2), 91–97. http://dx.doi.org/10.1097/01.nmd.0000198140.02154.32
- Roemer, L., & Orsillo, S. M. (2002). Expanding our conceptualization of and treatment for generalized anxiety disorder: Integrating mindfulness/acceptance-based approaches with existing cognitive-behavioral models. *Clinical Psychology: Science and Practice*, 9(1), 54–68. http://dx.doi.org/10.1093/ clipsy.9.1.54
- Roemer, L., & Orsillo, S. M. (2007). An open trial of an acceptance-based behavior therapy for generalized anxiety disorder. *Behavior Therapy*, 38(1), 72–85. http://dx.doi.org/ 10.1016/j.beth.2006.04.004
- Roemer, L., Orsillo, S. M., & Salters-Pedneault, K. (2008). Efficacy of an acceptance-based behavior therapy for generalized anxiety disorder: Evaluation in a randomized controlled trial. *Journal of Consulting and Clinical Psychology*. http://dx.doi.org/10.1037/a0012720.supp
- Salters-Pedneault, K., Roemer, L., Tull, M. T., Rucker, L., & Mennin, D. S. (2006). Evidence of broad deficits in emotion regulation associated with chronic worry and generalized anxiety disorder. *Cognitive Therapy and Research*, 30(4), 469–480. http://dx.doi.org/10.1007/s10608-006-9055-4
- Wells, A. (2006). Metacognitive therapy for worry and generalised anxiety disorder. In G. C. L. Davey & A. Wells (Eds.), Worry and its psychological disorders (pp. 259–272). West Sussex, England: Wiley.
- Wells, A., Welford, M., King, P., Papageorgiou, C., Wisely, J., & Mendel, E. (2010). A pilot randomized trial of metacognitive therapy vs applied relaxation in the treatment of adults with generalized anxiety disorder. *Behaviour Research and Therapy*, 48(5), 429–434. http://dx.doi.org/10.1016/j.brat.2009.11.013
- Wittchen, H. U., Lieb, R., Pfister, H., & Schuster, P. (2000). The waxing and waning of mental disorders: Evaluating the stability of syndromes of mental disorders in the population. *Comprehensive Psychiatry*, 41(2 Suppl. 1), 122–132. http://dx.doi.org/10.1016/S0010-440X(00)80018-8
- Yonkers, K. A., Warshaw, M. G., Massion, A. O., & Keller, M. B. (1996). Phenomenology and course of generalised anxiety disorder. *British Journal of Psychiatry*, 168(3), 308–313. http://dx.doi.org/10.1192/bjp.168.3.308

RECEIVED: June 27, 2013 ACCEPTED: September 29, 2013 Available online 15 October 2013