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ORIGINAL RESEARCH



Psychotherapists' reports of technique use when treating anxiety disorders: factors associated with specific technique use

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Abstract

Cognitive behavioural therapy (CBT) is the most efficacious and effective psychological intervention for treating anxiety disorders. Behavioural techniques, in particular exposure-based techniques, are fundamental to positive outcomes. However, research suggests that these techniques are either not used or are under-used when treating anxiety disorders. This study assesses therapists' reported use of CBT techniques in the treatment of anxiety disorders, and explores which therapist variables influence technique use. A total of 173 CBT therapists completed measures on their demographics, routine therapy practices in treating anxiety disorders, and internal states (e.g. self-esteem). These data were analysed to see how often therapists employed particular techniques and the correlates of the use of those techniques. Behavioural techniques. The under-utilization of these key techniques was associated with greater levels of increased inhibitory anxiety amongst therapists. Supervision and therapists' self-esteem were both positively associated with the use of non-CBT techniques. While this study established what CBT therapists purport to use in routine practice with anxious populations, further research is needed to assess the association between adherence (or lack thereof) and client outcomes, and the factors that drive non-adherence.

Key learning aims

As a result of reading this paper, the reader should:

- (1) Learn about what psychotherapists report as occurring in routine care for individuals with anxiety and related disorders.
- (2) Know the potential therapist traits that influence the use of CBT techniques.
- (3) Gain knowledge to help explain to clients why previous therapy may not have been effective.
- (4) Develop a richer understanding of what factors may influence their own therapeutic practice.

Keywords: evidence-based practice; psychotherapy process; service evaluation; therapist competence; treatment adherence

Introduction

Anxiety disorders are among the most prevalent psychological disorders. The most effective psychological treatments for anxiety, trauma and obsessive disorders come from the cognitive behavioural therapy (CBT) paradigm (e.g. Bradley *et al.*, 2005; Eddy *et al.*, 2004; Fedoroff and Taylor, 2001; Hofmann and Smits, 2008; Norton and Price, 2007; Otto *et al.*, 2000; Westen and Morrison, 2001). However, labelling therapy as 'CBT' does not mean that the client

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actually receives effective or evidence-based CBT. If CBT is delivered inadequately or inappropriately, there is a risk of prolonged suffering for clients who receive such treatment for these disorders.

Such therapist drift (Waller, 2009) can occur in the selection of treatments and in their delivery. Stobie *et al.* (2007) found evidence of both of these phenomena in a study of 'treatment refractory' clients suffering from obsessive compulsive disorder (OCD). They found that 60% of the initial sample had received sub-optimal treatments, which were likely to be less effective than the evidence base would suggest could be achieved. Furthermore, of the 40% who were offered the most effective treatments, only 40% received a minimally acceptable dose of therapy, due to key elements being omitted. In other words, only approximately 16% of the original sample had received a full evidence-based treatment. This report and others (e.g. Hansen *et al.*, 2002; Waller *et al.*, 2012) indicate that what goes on in the therapy room is commonly sub-optimal, at least in the treatment of OCD and some other disorders.

There are many potential reasons for therapy techniques not being adequately delivered, which have been explored over the years (see Meehl, 1986; Waller, 2009). These factors include issues related to both professional and personal characteristics. Professional characteristics in this situation include: level of training; core profession; and work environment (e.g. number of hours in contact with clients with anxiety disorders, amount of supervision received). Personal characteristics include the therapist's own levels of anxiety and self-esteem. However, neither element exists in a vacuum and the two elements may influence each other. Therefore, these two factors need to be explored jointly. As such professional attitudes, which may derive from both personal and professional characteristics, need to also be considered.

Considering professional characteristics, Waller (2009) pointed out that therapists may make mistakes due to context-driven behaviours. Such behaviours may include being fatigued due to being overworked. Another professional characteristic that may play a role is training. As indicated by Becker *et al.* (2004), a significant proportion of psychologists working with post-traumatic stress disorder did not have training in exposure. A lack of initial training, mixed with personal beliefs (discussed below), may further push a psychotherapist from correcting their misconceptions (Olantunji *et al.*, 2009; Parker and Waller, 2017). However, it is important to note that Becker *et al.* (2004) conducted their research with a US sample and this study involves a UK sample. In addition, no similar study has been conducted looking at training of CBT therapists in the UK. However, it is important to note that research (Brosan *et al.*, 2006) suggests that therapists with additional post-qualification training may perceive their own skills, abilities and limitations more accurately.

Considering personal characteristics, anxiety (Koch *et al.*, 2007; Levita *et al.*, 2016; Parker and Waller, 2017) appears to be the primary factor that causes therapists to avoid key CBT techniques. For example, when asking a client to engage in exposure a therapist has no idea how a client may respond. Being unable to see into the future, a therapist may experience anxiety in the form of prospective anxiety that may inhibit their behaviours. Prospective anxiety and behavioural inhibition are key aspects in tolerance of uncertainty (Carleton *et al.*, 2007; Dugas *et al.*, 1997; Ladouceur *et al.*, 2000). Having a lower tolerance of uncertainty may drive therapists to engage in safety-seeking behaviours to avoid negative responses (Waller, 2009) and their own negative emotions (Ladouceur *et al.*, 2000). Therefore, psychotherapists with a greater intolerance of uncertainty may be less likely to use certain CBT techniques, such as exposure.

Considering self-esteem, it is unclear how a therapist's own levels of self-esteem influence their work. Self-esteem can be considered in relation to two factors: cognitive vulnerability-stress interactions, and self-assessment of skill and outcome. Considering the former, intolerance of uncertainty (and anxiety overall) is greatly influenced by cognitive schemas and core beliefs (Hawkes and Provencher, 2011); key components in the cognitive vulnerability-stress theory. From this perspective, therapists with greater self-esteem may be more likely than those with lower self-esteem to use challenging techniques (such as exposure). However, Metalsky *et al.* (1993) suggest that higher self-esteem may buffer against cognitive vulnerability-stress

interactions. This buffer means that therapists may be less likely to blame themselves for poor therapeutic outcomes as they are less likely to attribute these failures to internal traits. However, as indicated by previous research (e.g. Stobie *et al.*, 2007), therapists may incorrectly then attribute these failures to the client. Considering self-assessment, therapists may use higher levels of self-esteem to protect their professional identities (Parker and Waller, 2015). As a result, psychotherapists may not accurately understand their own abilities and how their skills relate to client outcomes (Brosan *et al.*, 2006; Brosan *et al.*, 2008; Parker and Waller, 2015). Therefore, more data are needed to better understand the interaction of self-esteem on technique use.

Finally, considering professional attitudes, therapists' own internal factors influence which techniques therapists are likely to employ. These factors include negative attitudes to manuals and protocols (Addis and Krasnow, 2000; Addis *et al.*, 1999; Becker *et al.*, 2004; Deacon *et al.*, 2013; Olantunji *et al.*, 2009; Parker and Waller, 2017). It is unclear what the source of these belief systems and attitudes may be. However, it is clear that many therapists hold false beliefs about key techniques around exposure (Olantunji *et al.*, 2009). It is also clear that even amongst CBT therapists, negative attitudes towards CBT have an impact on technique use (Parker and Waller, 2017). However, it is likely that we do not yet have an adequate understanding of those therapist factors.

Therefore, this paper aims to determine what CBT techniques CBT therapists report using when treating anxiety disorders. In achieving this aim, this paper aims to determine the frequency of technique use and which professional and personal characteristics influence the use of these techniques. Considering professional characteristics, this paper looks to explore potential differences based on professional characteristics. With regard to personal characteristics, this paper will explore internal traits (i.e. anxiety). In addition, this paper will explore the relationship between attitudes (which in professionals may be derived from personal beliefs) and technique use.

Methods

Ethics

This study received ethical approval from the University of Sheffield, Department of Psychology Research Ethics Committee. It met the criteria of the Ethical Principles of Psychologists and the Code of Conduct (American Psychological Association, 2003).

Design

This was a cross-sectional study of mental healthcare providers whose primary theoretical orientation was CBT and who worked with anxious clients. The study was conducted using a survey and self-report inventories. Data were analysed using correlational and comparative methods.

Participants

The sample consisted of 173 UK therapists who reported their primary theoretical orientation as CBT and that they worked with clients with anxiety disorders. A total of 1965 therapists were approached directly to participate in this study, via four workshops and two online databases. The email approaches were made to 1286 therapists from the British Psychological Society and 537 therapists from the British Association for Behavioural and Cognitive Psychotherapies. Of those approached in this way, 280 therapists began the survey. Of those, 146 did not complete enough of the measures for inclusion. Most of them stopped at or during the Therapy Methods Questionnaire (TMQ). Of the remaining 134 responses, 90 reported that CBT was their primary theoretical orientation. Of those at the workshops, 82 therapists started the paper version of the measures. All 82 responses were included in analysis. Four more therapists were approached via snowball methods, but only one reported CBT as their primary theoretical orientation, and could be included. Thus, 173 UK therapists who primarily used CBT and reported on their use of CBT techniques for anxiety disorders were included in analysis.

Table 1.	Sample	(n = 173)	professional	demographics
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Professional demographics		
Profession	п	Percentage
Clinical psychologists	44	25.4%
Psychiatric nurses	31	17.9%
CBT therapists	21	12.1%
Counselling psychologists	14	8.1%
Licensed professional counsellors	9	5.2%
Clinical social workers	5	2.9%
Psychiatrists	2	1.2%
Other mental healthcare professionals	43	24.9%
Unreported	4	2.5%
Practice characteristics	Mean	SD
Years of clinical experience	11.3	(10.29)
Hours worked per week	31.0	(11.43)
Hours spent face-to-face with clients with anxiety disorders per week	12.6	(6.65)
Hours of supervision received per month	2.65	(1.97)
Hours supervising others per month	4.71	(8.83)

Sample characteristics

The mean age of the sample was 45.4 years (SD = 11.15), and 68.2% were female. Table 1 presents the sample professional demographics, including core profession and professional characteristics.

Considering their practice with clients with anxiety disorders, therapists reported a mean of 11.5 sessions (SD = 5.61; range 4–60) before treatment was completed. The modal session length was 45–90 minutes (94.8%). The second most frequent session length was under 45 minutes (4.6%). The least frequent session length was greater than 90 minutes (0.6%).

Measures

Demographics

All participants were asked to report their general demographic details (age, gender and ethnicity) and information about their clinical characteristics [core profession; theoretical orientation; professional accreditation; hours worked per week; hours spent with anxious clients per week; hours spent in supervision (giving and receiving) per month; average session length; and approximately how many sessions were delivered before treatment was completed].

Therapy Methods Questionnaire

The TMQ consists of 26 therapy techniques. Therapists rated (on a 0-100% scale) how often they used those techniques in clinical practice with anxiety disorders (0%: never used; 50%: used in half of such sessions; 100%: used in every session). Techniques on this scale (see Table 2) were grouped *a priori* into clusters (i.e. psychoeducational and general CBT techniques, cognitive techniques, behavioural techniques, and non-CBT techniques). Previous research (Parker and Waller, 2017) has used the same grouping of techniques, and found that they had strong internal consistency (Cronbach's alpha = .71 to .87).

The scale was derived from the current literature and from treatment manuals (Abramowitz *et al.*, 2012; Clark, 2007; Clark and Beck, 2010; Craske and Barlow, 2008; Franklin and Foa, 2008; Kearney, 2005; Martin, 2013; Resick *et al.*, 2008; Turk *et al.*, 2008; Whittal and Robichaud, 2012). The items were classified based on core elements for treating anxiety disorders. Some items (e.g. 'Give the client homework') were left vague and open to interpretation by the therapist and to allow for more freedom in response (although following up on homework may be a more

Cluster	Freq	uency	
Technique	Mean	SD	
Psychoeducation and general CBT techniques			
Set an agenda for the session	70.37	(33.42)	
Give the client homework	80.11	(25.42)	
Have your client do reading on their anxiety problem	54.08	(31.46)	
Help your client to develop new skills or to regain former skills	69.95	(25.90)	
Draw diagrams explaining the problem, which link thoughts, feelings and behaviours	68.30	(28.66)	
Draw diagrams showing the patterns your client has in relating to people	33.70	(30.41)	
Overall mean for subscale	62.79	(17.82)	
Cognitive techniques			
Have your client keep thought records or diaries		(26.62)	
Concentrate on anxiety-producing beliefs		(26.55)	
Address the meaning attached to thoughts		(25.46)	
Work with your client to alter interpretation of thoughts		(31.98)	
Overall mean for subscale	68.28	(22.03)	
Behavioural techniques			
Use imaginal exposure techniques in your office	45.27	(30.07)	
Use in vivo exposure techniques in your office	44.51	(28.02)	
Have your client do exposure exercises outside the office with you present		(30.76)	
Use flooding as a form of exposure		(26.19)	
Use systematic desensitization as a form of exposure		(33.94)	
Overall mean for subscale	36.13	(22.03)	
Non-CBT techniques			
Explore patterns of relating to people in the client's life	56.98	(31.74)	
Use reflective listening		(27.20)	
Offer unconditional positive regard		(27.45)	
Explore the client's childhood, in order to understand the present better		(31.04)	
Use silence as a therapeutic tool		(27.40)	
Remain silent for most of the session, allowing your clients to talk freely about whatever was on their mind at the time	14.07	(22.77)	
Focus on transference and the emotional relationship in the room		(29.77)	
Focus on defence mechanisms		(32.07)	
Spend time in sessions looking at problems other than the anxiety disorder itself (e.g. relationship problems)	35.67	(27.16)	
Role-play where the client plays someone else and the therapist plays the client			
Overall mean for subscale	46.41	(14.66)	

Table 2. Mean levels (0 to 100) of use of each therapy technique reported by therapists (grouped by subscale)

important factor to consider). The *a priori* grouping was established for another study and may pose some issues (discussed below). For further details on the creation of this scale please see Parker and Waller (2017).

Intolerance of Uncertainty Scale – Short Form (IUS-12)

The IUS-12 (Carleton *et al.*, 2007) is a 12-item self-report measure of intolerance of uncertainty with two subscales – inhibitory anxiety and prospective anxiety. Intolerance of uncertainty is a core component of anxiety. The measure has strong psychometric properties and has been used in a range of studies (Carleton *et al.*, 2007; Khawaja and Lai, 2010). Higher scores indicate greater levels of anxiety.

Rosenberg Self-Esteem Scale (RSES)

The RSES (Rosenberg, 1965) is a 10-item self-report measure of global self-worth. The RSES has strong psychometric properties (Schmitt and Allik, 2005; Sinclair *et al.*, 2010). Higher scores indicate greater self-esteem.

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Negative Attitudes towards CBT Scale (NACS)

The NACS (Parker and Waller, 2017) is a 16-item self-report of therapists' negative attitudes to CBT. The NACS is a unitary scale, with strong internal consistency and validity. Higher scores indicate more negative attitudes towards CBT. The overall Cronbach's alpha for the scale is reported at .95 (Parker and Waller, 2017). In addition, this measure has also displayed strong predictive validity with regard to technique use on the TMQ and other similar measures.

Procedures

Each participant completed self-report measures of demographic details, which therapy methods they employed, anxiety, self-esteem, and negative attitudes towards CBT. Responses were included for analysis if participants reported on therapy methods employed. Any answers given as a range were averaged (e.g. '2–3' was treated as 2.5). If a written response was unreadable, the item was treated as having a missing value.

Data analysis

SPSS version 22 was used throughout. To determine the frequency of technique use, a repeated measures ANOVA was conducted. Considering the impact of professional characteristics on technique use, multiple approaches were used. First, one-way ANOVAs were conducted to test for differences between professional groups and their use of each of the technique groups. Second, practice characteristics were assessed in relation to technique use with the use of linear regressions. To finish assessing this aim, an independent samples *t*-test was conducted to assess differences between those with additional professional accreditation and those without. To assess personal characteristics in relation to technique use, a linear regression was conducted.

Results

Use of techniques

Table 2 shows how often therapists reported using specific techniques while treating anxiety disorders. The techniques were grouped as described in the Method section.

A repeated measure ANOVA revealed a significant difference in the frequency with which therapists used different types of technique when delivering CBT (Wilks' lambda = .396, F(3,158) = 79.42, p < .001). Cognitive techniques (mean = 68.42, SD = 22.00) were the most frequently used. General and psychoeducational techniques (mean = 62.63, SD = 17.91) were the second most commonly used. The next most frequently used set of techniques were non-CBT techniques (mean = 46.16, SD = 14.52). Finally, behavioural techniques (mean = 35.82, SD = 21.64) were used the least. The means reported here vary slightly from those reported in Table 2, as cases with missing values were excluded for the repeated measures analysis. Bonferroni corrected *t*-tests showed that there were significant differences in the frequency of delivery between all therapy techniques (p < .001 in all cases).

Relationship between demographic factors and technique use

Profession

Table 3 shows the results of one-way ANOVAs assessing the association between the use of techniques and therapists' core profession. Counselling psychologists were most likely to use behavioural techniques. There were no other such differences.

Considering professional accreditation, multiple independent samples *t*-tests were conducted to look for differences between professional with post-qualification accreditation on the use of each technique cluster. In all cases, no differences were found (p > .150, in all cases).

	Profession						ANOVA		
Technique cluster	Counselling psychologist (1)	Psychiatric nurse (2)	Other (3)	CBT therapist (4)	Clinical psychologist (5)	F	p	МС	
	<i>n</i> = 14	n = 31	n = 59	n = 21	n = 44				
CBT techniques Psychoeducation/ general	60.66 (10.61) 64.02 (13.01)	60.27 (14.64) 67.63 (18.74)	55.76 (13.89) 65.48 (17.43)	52.82 (16.11) 58.86 (20.19)	52.12 (13.60) 56.67 (17.00)	2.08 2.38	.087 .054	_	
Cognitive techniques	66.79 (21.67)	73.49 (20.52)	70.02 (21.77)	71.13 (23.62)	61.62 (22.36)	1.55	.191	—	
Behavioural techniques	51.16 (23.00)	39.68 (22.52)	33.23 (20.39)	28.47 (19.33)	37.27 (22.80)	2.82	.027	1 > 3	
Non-CBT techniques	50.55 (11.17)	43.88 (15.53)	40.13 (15.59)	40.87 (17.06)	44.45 (14.88)	1.51	.202	—	

Table 3. Technique clusters associated with core profession

Multiple comparison (MC) tests used Bonferroni corrections.

Practice characteristics

Table 4 presents the findings of multiple (stepwise) linear regressions examining the associations of therapists' practice characteristics [i.e. hours worked per week, hours spent with clients (with anxiety disorders) per week, average number of sessions when treating a client with an anxiety disorder, and supervision given/received per month] with the use of different types of technique (i.e. general and rapport techniques; cognitive techniques; behavioural techniques; non-CBT techniques). These analyses were preceded by preliminary correlations. No analysis is reported regarding the use of behavioural techniques, as there were no significant associations between therapists' demographics and the use of behavioural techniques (r < .128 in all cases). In the regressions, the demographics associated the most often with techniques used were hours spent with clients with anxiety disorders per week and hours worked per week. However, the number of hours of supervision that a therapist received per month was positively associated with their use of non-CBT techniques.

Therapist mood and beliefs

Table 4 presents the findings of multiple linear regressions (stepwise) examining the association between therapists' internal characteristics (i.e. anxiety, self-esteem and attitudes) with therapists' use of the different technique groups (i.e. general and rapport techniques; cognitive techniques; behavioural techniques; non-CBT techniques). No analysis is reported regarding cognitive techniques, as there were no significant associations between therapists' internal characteristics and their use of cognitive techniques in preliminary correlational analyses (r < -.111 in all cases). Therapists' own levels of anxiety (inhibitory and prospective) and their attitudes towards CBT were negatively associated with the use of CBT techniques, while self-esteem was positively associated with the use of non-CBT techniques.

Discussion

The aim of this study was to determine patterns of use of CBT techniques in the treatment of anxiety disorders and the therapist factors that might influence those patterns of use. The most noteworthy point was that the most effective, evidence-based cluster of techniques (i.e. behavioural) were the least commonly used. Behavioural techniques were more likely to be used by counselling psychologists than any other professional groups. However, overall, and supporting the broader literature (e.g. Levita *et al.*, 2016; Stobie *et al.*, 2007), behavioural

 Table 4.
 Multiple (stepped) linear regression modelling for prediction of technique use based on therapists' clinical practice characteristics and internal states

Technique use based on therapists' clinical practice									
	Overall effect								
Dependent variable	F	% variance explained	Independent variable	t	p	Beta			
All CBT techniques	7.98***	8.8	Hours spent with clients per week			.333			
Psychoeducation and general CBT techniques	5.21*	2.7	Hours worked per week Hours spent with clients per week	2.43 2.83	.016 .024	209 .185			
Cognitive techniques	5.84***	10.8	Hours spent with clients per week	2.91	.004	.249			
			Hours worked per week Number of sessions	2.44 2.44	.016 .016	207 .193			
Behavioural techniques Non-CBT techniques	 5.69*	 3.2	 Supervision (received)	 2.39	.018	.196			
Technique use based on therapists' internal state									
	Overall effect								
Dependent variable	F	% variance explained	Independent variable	t	Beta	Ρ			
All CBT techniques	4.30*	2.2	Prospective anxiety	2.07	168	.040			
	Ov	erall effect							
Dependent variable	F	% variance explained	Independent variable	t	Beta	Ρ			
Psychoeducation and general CBT techniques	3.95*	1.9	Negative attitudes towards CBT	1.99	160	.049			
Cognitive techniques Behavioural techniques Non-CBT techniques	 8.08** 7.07**	4.5 3.9	Inhibitory anxiety Self-esteem	 2.84 2.66	226 .214	 .005 .009			

*p < .05;

**p < .01;

*****p* < .001.

methods were used less by therapists who were more anxious. Finally, the level of experience of working with patients with anxiety disorders seems to be related to a greater use of CBT techniques overall.

These findings support previous research regarding the role of therapist characteristics. For example, the role of therapist anxiety in this study replicates the finding that therapists who are anxious are less likely to use behavioural techniques, such as exposure (Meyer *et al.*, 2014; Levita *et al.*, 2016; Turner *et al.*, 2014; Waller *et al.*, 2012). Similarly, the role of therapists' negative attitudes to CBT is compatible with prior findings that therapists who hold more negative attitudes to a therapeutic method are more likely to under-utilize or leave out key techniques (Deacon *et al.*, 2013).

The clinical implications from these findings reveal an interesting pattern with regard to each of the technique clusters. Considering behavioural techniques, these techniques were used the least, and therapists with greater inhibitory anxiety were less likely to employ this group of techniques. The under-utilization of this technique is particularly problematic amongst therapists treating anxiety, obsessive and trauma disorders. Such techniques, particularly exposure, have been shown to be the most influential component in treating clients suffering from one of these disorders, with better outcomes and maintenance than other approaches that do not include exposure (Barlow *et al.*, 1989; Clark *et al.*, 2006; Cottraux *et al.*, 2001; Feske and Chambless, 1995; Foa *et al.*, 1999; Foa *et al.*, 2005, Öst, 1989; Sánchez-Meca *et al.*, 2010; Zlomke and Davis, 2008). The results do not indicate any other internal state or practice characteristic that is associated with an increased use of behavioural techniques.

Considering cognitive techniques, CBT therapists who held more negative views of CBT were less likely to employ these techniques. In contrast, cognitive techniques were likely to spend longer delivering a course of therapy and to work more hours in the week. It might take some therapists longer to feel comfortable enough to employ key therapeutic techniques and challenge client cognitions. Alternatively, they might be using fewer behavioural techniques, and hence being less effective.

CBT therapists who received more supervision or had greater levels of self-esteem were more likely to use these non-CBT techniques. These findings might imply that supervisory drift is occurring (Simpson-Southward *et al.*, 2016; Simpson-Southward *et al.*, 2017), and that therapists have greater self-belief and do not see as strong a need to focus on evidence-based approaches.

These findings require elaboration in future research. It is possible that some therapists had positive and justifiable reasons for deviating from evidence-based practice, although it is unlikely that this could have been the case for so many individuals. However, as this study did not assess why therapists under-utilized techniques, there may have been reasons that satisfactorily address why these sets of techniques were the least used. In addition, supervision might not be as effective as therapists expect in helping adherence to CBT protocols when CBT is the prescribed treatment. Other research (i.e. Simpson-Southward *et al.*, 2017) has highlighted a number of issues regarding the adequacy of clinical supervision models. This study builds on and extends those conclusions by indicating a positive association between supervision and the use of non-CBT techniques amongst CBT therapists.

This study has a number of limitations. As this study uses self-report measures, the level of use of clinical techniques has not been ascertained concretely, and further research using observational methods is needed to confirm these findings and their implications. An alternative approach to addressing this limitation may be to use a more direct line of questioning (e.g. 'reflecting on the last 10 sessions you have had with a client with an anxiety disorder'). Another limitation might be the length of the TMQ, as many therapists stopped at or during this portion of the study. Not only is there the issue of self-selection bias, but a large proportion of the therapists were engaged in training - both factors that might have skewed the findings. In addition this postqualification training has not been assessed to determine if exposure was included, nor has prequalification been assessed similarly. Therefore, it is unclear if UK therapists are experiencing the same issues with training as therapists in the US (see Becker et al., 2004). Finally, some of the measures require refinement. For example, the TMQ would benefit from questions regarding graded exposure, interoceptive exposure, and non-exposure-based behavioural techniques. In addition to this issue, while exposure is the most supported approach to treating anxiety disorders, CBT therapists may be relaying up other forms of behavioural experiments. Therefore, future iterations of the TMQ may reflect a different practice outcome if a question on behavioural experiments in general was included. In addition, these refinements may need to include looking at the grouping of the techniques. Fortunately, those that may be considered part of CBT (or therapy overall, such as reflective listening) are not part of the elements that CBT research indicate as driving forces (e.g. exposure) in addressing anxiety disorders and, therefore, should not skew the results of this current research. In addition, the vagueness on some items could have potentially skewed the results either way, although these items (e.g. giving of homework) were relatively minor compared with the more explicitly addressed items (e.g. in vivo exposure).

Further research is needed to find ways to ensure optimal delivery of CBT. In particular, it will be important to determine the impact of factors such as clinician anxiety and clinical practice features on therapeutic outcomes, using actuarial data (e.g. outcome reports, observation of therapy sessions). Furthermore, it is necessary to assess CBT therapists' rationales regarding their use (or omission) of techniques when treating anxiety disorders. As therapist drift occurs without evidence supporting therapists' deviations from protocols (Waller, 2009), future studies should take into account the justifications that therapists advance for the decisions that they make. In addition and in light of these findings, the study of Becker *et al.* (2004) should be replicated in the UK to identify potential issues in training that lead to the under-utilization of these core techniques.

To conclude, many CBT therapists do not employ key CBT techniques (e.g. exposure). Appropriate education, training and supervision are needed to ensure competence and adherence (Waller and Turner, 2016). For example, training for therapists could be adapted to address their anxiety and negative attitudes towards CBT (Farrell *et al.*, 2013; Meyer *et al.*, 2014), and supervision could focus explicitly on client outcomes (Simpson-Southward *et al.*, 2017).

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Key practice points

- (1) CBT clinicians appear to under-utilize behavioural techniques for anxiety disorders.
- (2) That under-utilization is related to clinician anxiety and negative attitudes to CBT.
- (3) Supervisors need to attend to how well clinicians are adhering to the principles and practice of CBT.

Further reading

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