Experiential Avoidance and Psychopathology: A Unidimensional or Multidimensional Construct?

Stacey McMullen¹, Jane Taylor² and Mick Hunter³

¹,² Hunter New England Mental Health Services, Hunter Street, Newcastle, N.S.W. 2300, Australia
³ School of Psychology, University of Newcastle, Callaghan, N.S.W. 2308, Australia

Corresponding author: Mick Hunter
mick.hunter@newcastle.edu.au

Associate Professor, School of Psychology, University of Newcastle, University Drive, Callaghan, New South Wales 2308, Australia.

Tel: +61 49217445
Fax: 02 4921 6980

Citation: McMullen S, Taylor J, Hunter M. Experiential Avoidance and Psychopathology: A Unidimensional or Multidimensional Construct?. Acta Psychopathol. 2015, 1:1.

Abstract

Objective: Experiential avoidance (EA), the avoidance of uncomfortable cognitions and emotions, is a significant factor in the onset and/or maintenance of a variety of maladaptive behaviours and psychopathologies. Also, EA has been recognised within most therapy approaches as a factor in the engagement of clients in therapy. However, measurement of EA is complicated by the diversity of its manifestations across a range of psychopathologies. The purpose of this study was to characterise EA as either a unidimensional or multidimensional construct as it applies to psychopathology and to evaluate its sensitivity to change during therapy.

Methods: In this study, 82 participants referred for psychological therapy to one of four mental health services, completed questionnaires measuring EA, thought control, and emotion control, at the start of therapy and again at follow-up three months later.

Results: Structural equation models (SEM) were able to capture the latent variable of EA and monitor change during therapy.

Conclusions: The results suggest that measures of EA are sensitive to change and also that EA is a multidimensional construct.

Keywords: Experiential avoidance; Emotion regulation; Emotional avoidance; Thought suppression; Cognitive avoidance

Received: June 29, 2015; Accepted: August 21, 2015; Published: August 29, 2015

Much research has been devoted to exploring how people avoid thoughts and emotions. In a study of thought suppression, Wegner and colleagues (Wegner, Schneider, Carter, White, 1987) [1] asked groups of undergraduate participants to “think of anything, but try not to think of a white bear” (‘suppression’ condition) or, alternatively, to “think of a white bear” (‘expression’ condition). The researchers found that participants who were instructed initially to suppress the thought reported more instances of intrusive “white-bear” thoughts than participants given the ‘expression’ directive. This “rebound effect” suggested that attempts at thought avoidance may actually increase the intrusiveness of a thought. In a similar study, Gross (1998) [2] showed 120 participants an emotionally confronting (“disgusting”) film and asked them to either suppress their emotional responses, or reappraise their thoughts. Gross found that suppression of emotions led to increases in indices of sympathetic nervous system activation. The interest of phenomena such as these in the therapy context is that intrusive thoughts and the difficulty of controlling or suppressing uncomfortable and distressing thoughts and emotions is a feature of many psychopathological presentations.

Avoidance behaviours have been a focus of research (Leventhal, 2008) [3], particularly in its relation to psychopathology (Simpson, Jakupcak, Luterek, 2006) [4]. The more recently used term ‘Experiential Avoidance’ (EA) refers to a person’s attempts or desires to avoid and suppress unwanted internal experiences, such as emotions, thoughts, body sensations, memories or urges (Hayes et al., 1996; Hayes, Wilson, Gifford, Follette, Strosahl, 1999) [5]. It has been suggested that EA plays a role in the onset and/or maintenance of a variety of maladaptive behaviours and psychopathologies (Hayes et al., 1996; Hayes, Strosahl, Wilson, 1999) [5, 6] such as anxiety (Roemer, Salters, Raffa, Orsillo, 2005) [7]; GAD (Roemer et al., 2005) [7]; panic (Borkovec & Roemer, 1995) [8]; PTSD (Orcutt,
Pickett, Pope, 2005) [9]; depression (Lynch, Robins, Morse, Krause, 2001); self-harm (Chapman, Gratz, Brown, 2006) [11]; substance misuse (Cooper, Russell, Skinner, Frone, Mudar, 1992) [12]; and borderline personality BPD (Chapman, Specht, Cellucci, 2005) [13]. Moreover, EA may be a significant impediment to effective engagement in therapy (Rüsch, Schiel, Corrigan, Leihener, Jacob, Olschewski, et al., 2008) [14]; to the emotional “processing” of experiences (Greenberg & Pascual-Leone, 2006) [15]; and to the behaviour changes essential to invalidating dysfunctional thoughts and attitudes (Beck, 1995) [16].

Measurement of EA is complicated because it encompasses such a wide variety of behaviours (Shahar & Herr, 2011) [17]. Moreover, it raises conceptual difficulties because it appears to confound separable processes – for example, the differences between cognitive and affective avoidance. The psychometric scale most widely used to measure EA is the Action and Avoidance Questionnaire (AAQ-II) (Bond, Hayes, Baer, Carpenter, Guenole, Orcutt, et al., 2009) [18], a scale that has been shown to be sensitive to the assessment of avoidance in people with mild to moderate depression and anxiety (Flederus, Voshaar, Klooster, Bohlmeijer, 2012) [19]. The AAQ-II has been interpreted as indicating that EA is a unidimensional construct (Flederus, et al., 2012; Bond, Hayes, Baer, Carpenter, Guenole, Orcutt, et al., 2011; McCracken & Zhao-O’Brien, 2010) [19, 20, 21]. Nevertheless, a recent empirical review (Chawla & Ostaﬁn, 2007) [22] has suggested that EA may be either an overarching construct that incorporates a variety of other strategies (such as thought control and emotional control/suppression), or a multidimensional construct with a number of different dimensions (e.g., cognitive, emotional, and behavioural). Some researchers have suggested that different domains of avoidance (e.g. cognitive and affective) can be distinguished and should be separately identiﬁed since they relate differentially to various psychopathologies (Blalock & Joiner, 2000; Ottenbreit & Dobson, 2004; Gamez, Chmielewski, Kotov, Ruggero, Watson, 2011) [23, 24, 25].

In the current study the responses of volunteer clients from community mental health services on the AAQ-II are compared with scores on scales of speciﬁc aspects of EA, namely, thought control (measured by the White Bear Suppression Inventory - WBSI; Wegner & Zanakos, 1994) [26], and emotion control (measured by the Difficulties in Emotion Regulation Scale – DERS; Gratz & Roemer, 2004) [27] in order to evaluate the dimensionality of the AAQ-II. In addition, the measures were taken both at initial baseline assessment and after 12 weeks of therapy in order to evaluate the sensitivity to change of the assessment scales. It is hypothesised that changes in EA as measured by the AAQ-II over a 12-week period of therapy will not be explained exclusively by one or other of the WBSI and DERS changes but will be explained by combined scores on the WBSI and the DERS scores across a range of psychopathologies.

**Method**

**Participants:**

The participant sample comprised clients accepted into mental health services of the Hunter New England Health Service, New South Wales, Australia. The services were the Newcastle Mental Health Service; the Newcastle Supported Recovery Service; the Lake Macquarie Mental Health Service and the Lake Macquarie Supported Recovery Service. These services provide medium-term on-going therapy to non-acute clients. All participants met DSM-IV-TR (American Psychiatric Association, 2000) [28] criteria for a variety of conditions (Table 1). Clients who were considered unable to give informed consent or who presented with psychotic features or a diagnosis of Schizophrenia or Psychotic Disorder were excluded.

Of the 104 clients who volunteered, 19 dropped out prior to follow-up assessment and 3 generated unreliable data and were removed from the analysis. The mean age of participants was 38.41 (SD = 12.927), with an age range of 19 to 70 years. Twenty were male (24.4% of the total sample) and 62 female (75.6% of the total sample). All participants were recruited either at the initial stage of individual therapy, or recently commenced individual therapy.

**Instruments**

Three published questionnaires were used in the study, the Acceptance and Action Questionnaire – II (AAQ-II); the White Bear Suppression Inventory (WBSI) and the Difficulties in Emotion Regulation Scale (DERS); together with a six-item scale devised for this study.

**Table 1 Participant demographics .**

<table>
<thead>
<tr>
<th>Key characteristics of the sample (N= 82)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean age (years) (SD) 38.41 (12.927)</td>
</tr>
<tr>
<td>Range of age (years) 19 - 70</td>
</tr>
<tr>
<td>Characteristics N</td>
</tr>
<tr>
<td>Gender</td>
</tr>
<tr>
<td>Male</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>62</td>
</tr>
<tr>
<td>Diagnoses</td>
</tr>
<tr>
<td>Borderline Personality Disorder 30</td>
</tr>
<tr>
<td>Posttraumatic Stress Disorder 14</td>
</tr>
<tr>
<td>Major Depressive Disorder 11</td>
</tr>
<tr>
<td>Obsessive Compulsive Disorder 8</td>
</tr>
<tr>
<td>Bipolar Affective Disorder 7</td>
</tr>
<tr>
<td>Generalized Anxiety Disorder 3</td>
</tr>
<tr>
<td>Dissociative Disorder, Not Otherwise Specified 2</td>
</tr>
<tr>
<td>Panic Disorder with Agoraphobia 1</td>
</tr>
<tr>
<td>Conversion Disorder 1</td>
</tr>
<tr>
<td>Obsessive Compulsive Personality Disorder 1</td>
</tr>
<tr>
<td>Anorexia Nervosa 1</td>
</tr>
<tr>
<td>Trichotillomania 1</td>
</tr>
<tr>
<td>Panic Disorder 1</td>
</tr>
<tr>
<td>Specific Phobia 1</td>
</tr>
<tr>
<td>Engage in Deliberate Self-Harm 44</td>
</tr>
<tr>
<td>Do Not Engage in Deliberate Self-Harm 38</td>
</tr>
<tr>
<td>PRN Medication (“when necessary”) 28</td>
</tr>
</tbody>
</table>
al., 2009) [18] is a 10-item revision of the original 9-item scale (Hayes, Strosahl, Wilson, Bissett, Pistorello, Toarmino, et al., 2000) [29]. The AAQ-II is a self-report measure of EA. It is designed to measure a person's ability to remain in contact with painful and negative private events (e.g., “I'm afraid of my feelings”; “My painful memories prevent me from having a fulfilling life”). Items are rated on 7-point Likert scales and summed to produce a total score. Internal consistency (Cronbach is reported to range from α = 0.76 to 0.87 in seven samples (n = 3280; Bond et al., 2009) [18]. The AAQ-II shows convergent validity, with significant correlations with the Beck Anxiety Inventory (BAI), the Beck Depression Inventory (BDI-II), and the WBSI (Bond, et al., 2009) [18]. Three confirmatory factor analyses have suggested a one-factor solution, after allowing for a method effect entailing three reversed (positively worded) items (Bond, et al., 2011) [20]. Iverson and colleagues (Iverson, Follette, Pistorello, Fruzzetti, 2012) [30] have indicated good reliability in their sample (α = 0.82).

The WBSI (White Bear Suppression Inventory) (Wegner & Zanakos, 1994) [26] is a 15-item self-report measure designed to assess thought suppression and thought intrusion. The internal consistency (Cronbach α) ranges from α = 0.87 – 0.89. Test-retest reliability is reported as r=0.92 for 1 week and r=0.69 for 3 weeks to 3 months. Significant correlations with the Beck Depression Inventory (BDI) and the State-Trait Anxiety Inventory (STAI) (Wegner & Zanakos, 1994) [26] indicate acceptable convergent validity. The WBSI has been used in clinical research relating to depressive symptoms (Wenzlaff & Luxton, 2003; Van der Does, 2005) [31, 32], PTSD (Amstadter & Vernon, 2008; Tull, Gratz, Salters, & Roemer, 2004) [33, 34], OCD (Rassin, Muris, Schmidt, Merckelbach, 2000) [35], and acute stress (Nixon, Menne, Kling, Steele, Barnes, Dohn, et al., 2008) [36].

The difficulties in Emotion Regulation Scale (Gratz & Roemer, 2004) [27] is a 36-item, self-report questionnaire designed to assess multiple aspects of emotion dysregulation; namely, nonacceptance of emotional responses (DERS-NA); impulse control difficulties (DERS-I); difficulties engaging in goal directed behaviour (DERS-G); limited access to emotion regulation strategies (DERS-S); lack of emotional awareness (DERS-A); and lack of emotional clarity (DERS-C). Participants are asked to specify how often each item applies to them using a five-point Likert scale.

The DERS provides an overall total score as well as subscale scores. The Therapist Rating Scale is a non-validated six-item questionnaire designed for this study. This questionnaire was developed to elicit the therapists’ impressions of their clients use of EA strategies and of any changes in such during the course of therapy. The 6 questions were: (1) The client wishes they could stop thinking of certain things, (2) Sometimes the client really wishes they could stop thinking, (3) The client has thoughts that they try to avoid, (4) The client has no idea how they are feeling, (5) When the client is upset, they have difficulty getting things done, (6) When the client is upset, they have difficulty controlling their behaviours. Therapists rated their impressions on a 5-point Likert scale and items were summed for a total.

Procedure
Approval to proceed was granted by the Hunter Area Health Research Ethics Committee (Approval Number:09/06/17/5.02).

Potential participants were informed of the study in interviews conducted by a treating Psychiatrist or Senior Clinician. After provision of voluntary consent, a semi-structured interview was conducted to clarify diagnosis and assess the client’s appropriateness for the study. Clients deemed eligible were allocated to an appropriate therapy approach according to normal service procedures. Therapy approaches included Cognitive Behaviour Therapy (39 participants), Dialectical Behaviour Therapy or Dialectical Behaviour Informed Therapy (21 participants), Interpersonal Therapy (7 participants), Solution-Focused Brief Therapy (5 participants), Psychoanalysis (5 participants) Supportive Therapy (2 participants), Acceptance and Commitment Therapy (2 participants), and Psychodynamic Therapy (1 participant).

Clients completed the three questionnaires and the therapists completed the Therapist Rating Scale at initial baseline assessment and again at three-month follow-up.

Results
Demographic details of the participants are presented in Table 1. Of the 82 clients, 30 were diagnosed with Borderline Personality Disorder, 14 with PTSD and 11 with Major Depressive Disorder. Other diagnoses were infrequent. More than half of the sample had engaged in deliberate self-harm.

Preliminary inspection of the data set elicited from 85 participants showed 3 distinct outliers in the responses to the initial WBSI measure. Given the high Kurtosis score for baseline WBSI scores it was deemed appropriate to evaluate the influence of these three individuals on the distribution. Analyses undertaken with data sets from both time-points comparing the responses including outliers and with them removed showed that inclusion of the outliers had a significant influence on the results overall. And yet the three outliers showed no pattern or consistency of response and appeared to be responding quite randomly. In order to prevent undue bias on the data set as a whole it was considered necessary to remove these 3 outliers from further analysis. Hence, all analyses below are derived from the 82 clients described in Table 1.

Table 2 shows the statistically significant changes to the measures
between measurement time points. Pre- and Post- measures refer to baseline and 3 month follow-up measures respectively. All measured variables show highly significant change over time and all the variables indicate client improvement achieved during therapy (e.g. higher AAQ score at time 2 indicates a lowering of EA).

Preparatory to modelling procedures a correlation matrix was generated (Table 3) in order to evaluate the relationships between the measured variables. Significant correlations between all measures at pre-therapy and follow-up (post) indicated strong relationships between the variables.

Structural equation modelling (SEM) using IBM SPSS AMOS (Arbuckle, 2011) [45] was used to estimate relationship strength between variables. The criteria for model evaluation were the p-value of chi-square (χ²); the comparative fit index (CFI); the root mean square error of approximation (RMSEA) (Hu & Bentler, 1999; Hair, Black, Babin, Anderson, 2010; Steiger, 2007) [46, 47, 48] and the Tucker-Lewis Index (TLI) (Hooper, Coughlan, Mullen, 2008) [49]. The Akaike Information Criterion (AIC) was also compared, with smaller values suggesting well-fitting parsimonious models (Hooper, et al., 2008) [49]. The criteria for an acceptable model fit were taken as CFI value greater than .94 and RMSEA value lower than .07, - after Hu & Bentler (1999) [46]. However, since the possibility of type I and type II errors for any evaluation criterion varies with model complexity and sample size, these values should be considered as guidelines rather than absolute cut-off values (Hu & Bentler, 1999) [46]. Prior to SEM procedures, difference scores measuring differences between pre- and post- measures were calculated for each scale.

Initially, a saturated model was generated. The hypothesized model was a path model exploring how the change in AAQ-II scores influenced the change in the other scale scores. Items with low regression weights were removed from the measurement model until a good fit was obtained. Non-significant paths were removed and a model built to represent our hypothesised model (AAQ Model) (Figure 1). This model produced a RMSEA of 0.0, and all other goodness of fit statistics indicated that it was an excellent fit to these data.

Two alternative models explored how the change in DERS Total scores and change in WBSI scores influenced change in other scale scores. However, the goodness of fit statistics indicated that the AAQ Model was a better fit than the alternatives - (Model fit for DERS model: χ²=4.49, df=3, p=.213, NFI=.979, TLI=.962, CFI=.992, RMSEA=.078 (90% CI=.000-.217), AIC=52.493. Model fit for WBSI model: χ²=4.00, df=3, p=.261, NFI=.981, TLI=.974, CFI=.995, RMSEA=.064 (90% CI=.000-.208), AIC=52.002).

The AAQ-II scale scores at baseline were the only baseline scores to exert a significant effect on the change between AAQ-II scores on pre to post measurement (β=-0.610, p<0.005). The change in AAQ-II scores between baseline and follow-up exerted a significant effect on the change in both DERS Total scores (β=-0.517, p<0.005) and WBSI scores (β=-0.313, p=0.002). Although, the effect on WBSI change score was not as strong as on the change in DERS Total score. The effect of the AAQ-II and DERS Total scores at baseline on the change scores for the AAQ-II and DERS Total scores were highly significant. The effect of the WBSI score at baseline measurement on the change in WBSI score, whilst statistically significant, was not as strong an effect.

The consistency of measurement models between pre and post measures was explored. A latent variable of EA was generated with the AAQ, WBSI and DERS Total scores as the manifest indicators (Figure 2). Figure 2 shows that all three scales loaded well on EA at both measurement times. However, the AAQ-II and DERS Total scores showed stronger loadings than the WBSI.

Table 2 Paired Samples t-test.

<table>
<thead>
<tr>
<th></th>
<th>Mean Pre-Post Difference</th>
<th>t</th>
<th>df</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAQ</td>
<td>-5.259</td>
<td>-4.985</td>
<td>80</td>
<td>.000</td>
</tr>
<tr>
<td>WBSI</td>
<td>4.605</td>
<td>6.780</td>
<td>80</td>
<td>.000</td>
</tr>
<tr>
<td>DERSTotal</td>
<td>14.938</td>
<td>6.177</td>
<td>80</td>
<td>.000</td>
</tr>
<tr>
<td>Therapist RS</td>
<td>2.691</td>
<td>6.874</td>
<td>80</td>
<td>.000</td>
</tr>
</tbody>
</table>

Figure 1  AAQ Path Model.

Figure 2  Total Factor Model Showing Pre and Post Scores.
Given the disproportionate numbers of clients with BPD, an analysis was executed with BPD participants excluded (Figure 4). The small sample size makes extrapolation from this analysis highly tentative, nevertheless, the effects of the WBSI on change in EA increased with BPD clients removed. That is, the removal of participants with clear emotional dysregulation increased the importance of the cognitive loading on EA. However, the strength

The subscales of the DERS were also assessed. Figure 3 shows the strongest DERS subscale loadings on EA, as well as the AAQ and WBSI scores. Both models showed adequate goodness of fit statistics. The DERS-S subscale, which reflects limited access to emotion regulation strategies, was the highest loading on EA. Again, the WBSI scores demonstrated the lowest loading on EA.

Table 3

<table>
<thead>
<tr>
<th>S.NO</th>
<th>Measure</th>
<th>M</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PreAAQ</td>
<td>29.23</td>
<td>9.820</td>
<td>1.00</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>2</td>
<td>PostAAQ</td>
<td>34.48</td>
<td>11.187</td>
<td>0.60</td>
<td>0.100</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>3</td>
<td>PreWBSI</td>
<td>61.22</td>
<td>8.551</td>
<td>-0.53</td>
<td>-0.13</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>4</td>
<td>PostWBSI</td>
<td>56.79</td>
<td>10.273</td>
<td>-0.32</td>
<td>-0.11</td>
<td>-0.04</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>5</td>
<td>PreDERST</td>
<td>119.23</td>
<td>26.210</td>
<td>-0.68</td>
<td>-0.61</td>
<td>0.60</td>
<td>0.100</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>6</td>
<td>PostDERST</td>
<td>104.44</td>
<td>26.941</td>
<td>-0.40</td>
<td>-0.69</td>
<td>0.56</td>
<td>0.70</td>
<td>0.100</td>
<td>0.100</td>
<td>0.100</td>
<td>0.100</td>
</tr>
<tr>
<td>7</td>
<td>PreThRS</td>
<td>21.18</td>
<td>4.712</td>
<td>-0.50</td>
<td>-0.49</td>
<td>0.32</td>
<td>0.27</td>
<td>0.49</td>
<td>0.33</td>
<td>0.33</td>
<td>1.00</td>
</tr>
<tr>
<td>8</td>
<td>PostThRS</td>
<td>18.56</td>
<td>4.393</td>
<td>-0.33</td>
<td>-0.58</td>
<td>0.28</td>
<td>0.42</td>
<td>0.35</td>
<td>0.54</td>
<td>0.70</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Note: Pre = baseline interval; Post = 3 month follow-up interval
AAQ = Acceptance and Action Questionnaire
WBSI = White Bear Suppression Inventory
DERST = Difficulties in Emotion Regulation Scale Total Score
ThRS = Therapist Rating Scale

Figure 3  Factor Model Showing Two DERS Subscales and WBSI.
of association of the DERS subscales still surpassed that of the WBSI scores.

Finally, the therapists’ estimates of change in their client’s EA strategies showed significant correlation with change on each of the self-report measures. Although this is not a validated measure, the result indicates that the therapists perceived their clients as having reduced their avoidance.

Discussion

There are several shortcomings to this study, chief amongst them being the small sample size, the diagnostic biases within the sample and the absence of a control group. The small sample raises difficulties in drawing general conclusions from the modelling process (Jackson 2003; Kline 2011) [50, 51]. However, the highly prescribed and targeted nature of the sample should allow interpretation of these data for similar clinical groups. The diagnostic biases within the sample, particularly the large proportion of participants with BPD, need to be borne in mind when considering the role of emotional dysregulation in the avoidance measures. This bias was not anticipated, but came as a consequence of using a convenience sample of participants who were referred to public community mental health and psychiatric health service facilities for on-going mental health problems. The bias then reflects the diagnostic characteristics of client groups using these facilities. Finally, our inability to use an appropriate control group means that we cannot attribute any health improvement during the experimental period directly to therapeutic intervention. This problem was anticipated, but engaging a waitlist control group was not possible since it meant withholding treatment of public patients for a period of 3 months – an unacceptable condition for the health services involved. In spite of these problems the current study has revealed interpretable results that bear careful consideration.

The aim of the study was to compare the change in overall EA, as measured by the AAQ-II, with changes in measures of emotional avoidance (DERS) and cognitive avoidance (WBSI) before and after a period of 12 weeks of therapy. A significant change in the total scores for all 3 scales was found over the 12-week period. Changes in scores on the AAQ-II were strongly related to changes in the DERS total scores, although the relationship between changes in the AAQ-II and the WBSI scores was somewhat weaker. The fact that the relationship between the AAQ-II and the DERS was not perfect, and there was a relationship (albeit weaker) between the AAQ-II and the WBSI, suggest that changes in the AAQ-II may be predicted by both domains of emotion control and thought control. The fact that the elements of emotional avoidance and
cognitive avoidance can be differentiated supports the notion of the multidimensionality of the AAQ-II, which follows from the research of Gamez et al (2011) [25]. Moreover, the differences between the models of the whole sample versus the non-BPD data are consistent with the differential effects of affective and cognitive control – suggesting that the multidimensionality of EA is not merely a function of structural issues as suggested by some authors (Bond, et al., 2011) [20].

Using structural equation modelling techniques, the relationship between the scales showed that the DERS total scores were more strongly related to EA than the AAQ-II scores. Exploration of individual DERS subscale scores indicated that subscales measuring lack of access to emotion regulation strategies (DERS-S) and difficulties engaging in goal-directed behaviours (DERS-G) were more strongly related to EA than the AAQ-II and the WBSI, indicating that therapeutic changes made by participants in this sample were associated more with overcoming emotional avoidance than with overcoming cognitive avoidance. Pinto-Gouveia and colleagues (Pinto-Gouveia, Gregorio, Dinis, Xavier, 2012) [52] have also recently reported that the DERS subscales measuring limited access to emotion regulation were highly correlated with a measure of EA. However, their results for the DERS-G subscale were only weakly correlated. Given the established association of BPD with emotion regulation and emotional control difficulties (Linehan, 1993) [53], the large proportion of participants with a diagnosis of BPD in this sample has doubtless reinforced this association in these data. This was also indicated by the analysis of the non-BPD scores, where the loading of the WBSI score associated with EA change increased relative to the whole group analysis.

In summary, our data indicate that all 3 scales are strongly associated with the latent variable of EA; that the AAQ-II is sensitive to at least two elements of EA, namely affective avoidance and cognitive avoidance; and that the DERS and its subscales are highly sensitive to affective avoidance. A major finding of the current study is that all 3 scales are sensitive to changes brought about during a period of therapeutic intervention. Whether this change is wholly or partly a function of time, of therapy or of a combination of these and extraneous factors is a question for further research.
References


