

This is a repository copy of Body image flexibility: A predictor and moderator of outcome in transdiagnostic outpatient eating disorder treatment.

White Rose Research Online URL for this paper: http://eprints.whiterose.ac.uk/126908/

Version: Accepted Version

Article:

Pellizzer, M., Waller, G. orcid.org/0000-0001-7794-9546 and Wade, T. (2018) Body image flexibility: A predictor and moderator of outcome in transdiagnostic outpatient eating disorder treatment. International Journal of Eating Disorders, 51 (4). pp. 368-372. ISSN 0276-3478

https://doi.org/10.1002/eat.22842

This is the peer reviewed version of the following article: Pellizzer, ML, Waller, G, Wade, TD. Body image flexibility: A predictor and moderator of outcome in transdiagnostic outpatient eating disorder treatment. Int J Eat Disord. 2018; 51: 368–372, which has been published in final form at https://doi.org/10.1002/eat.22842. This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Use of Self-Archived Versions.

Reuse

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.





Body image flexibility: A predictor and moderator of outcome in transdiagnostic outpatient eating disorder treatment

Journal:	International Journal of Eating Disorders		
Manuscript ID	IJED-17-0544.R1		
Wiley - Manuscript type:	Brief Report		
Date Submitted by the Author:	n/a		
Complete List of Authors:	Pellizzer, Mia; Flinders University , Psychology Waller, Glenn; University of Sheffield, Clinical Psychology Wade, Tracey; Flinders University , School of Psychology		
Keywords:	Eating Disorders, Cognitive-Behavioral Therapy, Moderators, Predictors, Body Image Flexibility		

SCHOLARONE™ Manuscripts

Body Image Flexibility and Eating Disorders

1	Number of Words (text only) = 1988
2	Number of Words (Abstract) = 188
3	Number of Tables = 1
4	Number of Figures = 1
5	19 th January 2018
6	
7	Body image flexibility: A predictor and moderator of outcome in transdiagnostic
8	outpatient eating disorder treatment
9	
10	Mia Pellizzer, BPsychHons ¹
11	Glenn Waller, D Phil ²
12	Tracey D. Wade, PhD ¹
13	
14	¹ School of Psychology, Flinders University, Adelaide, South Australia, Australia
15	² Department of Psychology, University of Sheffield, United Kingdom
16	
17	
18	Address correspondence to: Mia Pellizzer, School of Psychology, Flinders University, PO
19	Box 2100, Adelaide, SA, 5001, Australia. Tel: +61-8-8201-7993. Fax: +61-8-8201-3877.
20	E-mail: mia.pellizzer@flinders.edu.au
21	
22	Acknowledgements: Thank you to the therapists who were involved in this study: Ryan
23	Balzan, Samantha Boots, Emily Matheson, Jamie-Lee Pennesi, Cele Richardson, and
24	Eloisa Steen.
25	For submission to: International Journal of Eating Disorders
26	Running head: BODY IMAGE FLEXIBILITY AND EATING DISORDERS

1	Abstract
2	Objective: Predictors of attrition and predictors and moderators of outcome were explored
3	in a transdiagnostic sample of patients who received ten-session Cognitive Behavioral
4	Therapy (CBT-T) for non-underweight eating disorders. Body image flexibility, a
5	protective positive body image construct, was hypothesized to be a significant moderator.
6	Method: Data from two case series were combined to form a sample of 78 participants
7	who received CBT-T. Baseline measures of body image, negative affect, personality, and
8	motivation were included as potential predictors. Global eating disorder psychopathology
9	at each assessment point (baseline, mid- and post-treatment, 1- and 3-month follow-up)
10	was the outcome variable. Predictors of attrition were assessed using logistic regression,
11	and multi-level modelling was applied for predictors and moderators of outcome.
12	Results: Body image flexibility emerged as the strongest predictor and moderator of
13	global eating disorder psychopathology, followed by body image avoidance. Body
14	checking, negative affect, personality beliefs and self-efficacy were significant predictors
15	of global eating disorder psychopathology.
16	Discussion: Higher body image flexibility predicted lower global eating disorder
17	psychopathology at every assessment point. Further research is required to replicate
18	findings and explore the benefit of focusing on positive body image in treatment.
19	Key Words: Eating disorders; cognitive-behavioral therapy; moderators; predictors; body
20	image flexibility.
21	

The importance of body image flexibility in predicting outcome in transdiagnostic

2	outpatient eating disorder treatment

Body image flexibility (BIF) is the ability to accept and experience both
positive and negative thoughts, beliefs, and feelings about one's body, and is considered to
be a protective factor for physical and psychological wellbeing (Sandoz, Wilson, Merwin,
& Kellum, 2013). Improvements in BIF appear to be associated with positive outcomes in
eating disorder symptoms, quality of life, and general mental health (Butryn et al., 2013),
even after controlling for general psychological flexibility (Lee, Ong, Twohig, Lensegrav-
Benson, & Quakenbush-Roberts, 2017). However, these studies assessed change
simultaneously, not allowing for causal interpretations. Only one study (adolescent
sample) shows prospectively that pre-treatment flexibility predicts post-treatment quality
of life and eating disorder risk, when controlling for baseline levels of these variables
(Bluett et al., 2016). The role of BIF in predicting treatment outcomes still needs to be
tested in adults with eating disorders.
While cognitive behavior therapy for eating disorders (CBT-ED) does not
explicitly target BIF, it does address two key behavioral manifestations of image
disturbance - body avoidance (avoidance of mirrors, weighing, tight clothing) and
checking (overuse of mirrors, pinching or measuring body parts) (Amin, Strauss, &
Waller, 2012). While both behaviors are considered to be risk and maintenance factors for
eating disorders (Amin et al., 2012), no study has evaluated whether either influences
treatment outcomes.
The aim of this study was to determine whether these three aspects of body
image predict and moderate the impact of cognitive-behavioral treatment (Waller, Tatham,

& Turner, 2016) considering their roles alongside other, known predictors of treatment

outcome (negative outcome, personality disorder pathology, and motivation. First, it is

1	hypothesized that motivation will be a significant predictor of drop-out (Vall & Wade,
2	2015). Second, it is hypothesized that higher levels of BIF and lower levels of body image
3	avoidance, body checking, negative affect, personality beliefs, and motivation will be
4	significant predictors of variance in global eating disorder psychopathology over the
5	course of treatment. Third, it is hypothesized that only the body image variables will
6	significantly interact with time to result in greater decreases in global eating disorder
7	psychopathology over the course of treatment.
8	
9	METHOD Participants
10	Participants
11	Data from two case series were combined to explore treatment predictors and
12	moderators, resulting in 105 participants being assessed for suitability (see
13	Supplementary Figure 1). Exclusion criteria included: any severe physical and/or
14	psychiatric condition that would interfere with treatment; already receiving eating disorder
15	psychotherapy; difficulty speaking/understanding English. Nine participants were
16	ineligible and four chose not to continue past assessment, thus 92 participants were
17	offered, and 78 (85%) started, treatment. In this latter group, mean age was 27.19 years
18	(SD = 9.60; range 15.69 - 68.97), mean BMI was 26.78 (SD = 7.84; range 18.20 - 52.40),
19	the majority were female (92.3%) and Caucasian (88.5%). Diagnosis, using DSM-5
20	criteria, was assessed at baseline and confirmed in supervision.
21	Measures
22	Participants completed measures at baseline (assessment session), mid-
23	treatment (session 4), post-treatment (session 10), and after one- and three-month follow-
24	up.
25	Weight and frequency of disordered eating. Height was measured at baseline

1 and weight at each therapy session. Frequency of objective bingeing, vomiting, and 2 laxative abuse were calculated each session (obtained from daily food intake diaries and 3 clarified during session). Laxatives and vomiting were combined to create a purging score, 4 given the low frequency of the former. 5 Global eating disorder psychopathology. The 22-item global eating disorder 6 psychopathology from the Eating Disorder Examination – Questionnaire (EDE-Q; 7 Fairburn & Beglin, 2008) was used. The EDE-Q global score has good psychometric 8 properties (Kelly, Carter, Zuroff, & Borairi, 2013; Mond, Hay, Rodgers, & Owen, 2006). 9 Internal consistency in the current study was .90. 10 Body image flexibility. The Body Image Acceptance and Action Questionnaire (BI-11 AAQ; Sandoz et al., 2013) is a 12-item measure of BIF. Higher scores indicate greater BIF. It 12 has strong psychometric properties (see Pellizzer, Tiggemann, Waller, & Wade, 2017). 13 Internal consistency in the current study was .92. 14 Body image avoidance. The Body Image Avoidance Questionnaire (BIAQ; Rosen, 15 Srebnik, Saltzberg, & Wendt, 1991) assesses the avoidance of body image related situations. 16 The response format was changed from a 6-point to 7-point scale in the present study to 17 match that of the BI-AAQ. Psychometric properties vary across studies due to differing factor 18 structures (see Pellizzer et al., 2017). Internal consistency in the current study was .90. The 19 14-item version was recently found to have superior fit indices compared to other models 20 (Pellizzer et al., 2017) and thus was used for this study. 21 **Body checking.** The Body Checking Questionnaire (BCQ; Reas, Whisenhunt, 22 Netemeyer, & Williamson, 2002) is a 23-item measure of body checking behaviours. The 23 response format has been changed from a 5-point to 7-point scale in the present study to

match that of the BI-AAQ. Higher scores indicate greater body checking. Psychometric

- properties vary across studies (see Pellizzer et al., 2017). Internal consistency in the present
 study was .96.
- Negative affect. The Depression Anxiety and Stress Scales (DASS21; Lovibond &
- 4 Lovibond, 1995) is a 21-item measure and a total higher score indicates greater negative
- 5 affect. The scale has good psychometric properties. Internal consistency was similar in the
- 6 current study ($\alpha = .94$ total score).
- 7 **Personality beliefs.** The 65-item Personality Beliefs Questionnaire (PBQ-SF; Butler,
- 8 Beck, & Cohen, 2007), based on DSM-5 personality diagnoses, yields a total score which
- 9 increases to indicate greater personality psychopathology. The measure has good
- psychometric properties (Butler et al., 2007). Internal consistency was strong in the current
- 11 study ($\alpha = .96$ total score).
- Motivation and self-efficacy. Two 100-point visual analogue scales: "How ready are
- 13 you to change?" and, "If you decided to change, how confident are you that you would
- 14 succeed?" assessed motivation and self-efficacy (Feld, Woodside, Kaplan, Olmsted, &
- 15 Carter, 2001). Both items are sensitive to changes in motivation and have predicted outcome
- in treatment studies (see Steele, Bergin, & Wade, 2011).

17 Procedure

- Participants were recruited from consecutive referrals to the Flinders University
- 19 Services for Eating Disorders outpatient clinic, after giving informed consent. They received
- 20 weekly therapy for ten weeks. Seven trainee psychologists administered the treatment under
- 21 weekly or bi-weekly supervision by two authors (GW and TW). Two adolescents were
- 22 included (assent and parent consent obtained), as Family Based Treatment was not
- 23 appropriate due to cost and family structure, and given the efficacy of CBT for adolescents
- with BN.

25

Statistical Analyses

1	Analyses were conducted with IBM SPSS Version 22. Multi-level modelling (MLM)
2	was used, enabling inclusion of cases with missing data via maximum likelihood estimation.
3	Little's Missing at Random (MAR) test was used to assess whether data were missing at
4	random and predictors of attrition were assessed using binomial logistic regression.
5	Predictors were standardized to aid interpretation.
6	A predictor was considered to be a significant moderator if the size, sign, or strength
7	of the effect of time on the changing scores of the dependent variable (EDE-Q global score)
8	was dependent on the predictor (Kelly et al., 2013). Seven predictors were examined: BIF,
9	body image avoidance, body checking, negative affect, personality beliefs, readiness to
10	change, and self-efficacy. Models included a fixed- and random-effects portion, to model
11	constant and variable effects across participants. Intercept and time were included as random
12	effects and an autoregressive (AR[1]) structure for random error was applied. The
13	unconditional (null) "Model 1" and conditional "Model 2", where time was the sole
14	predictor, were first examined to confirm there was significant variance in global eating
15	disorder psychopathology and whether time explained some of that variance (i.e., a
16	significant change in psychopathology occurred over time). "Model 3", a conditional model,
17	included the main effects of time and the predictor, and a two-way interaction between time
18	and predictor. If a significant interaction existed, and to enable graphing, a dichotomous
19	variable of the predictor was created using a median split, and each analysis was rerun using
20	the dichotomous variable to generate the mean and standard error for the EDE-Q at each time
21	point for low and high values of the predictor.
22	
23	RESULTS
24	Preliminary Analyses

All variables were normally distributed except purging. Little's test was non-

significant $\chi^2(116) = 115.75$, p = .49, indicating data were missing completely at random.

Predictors of Attrition

- Attrition (starting treatment but terminating prematurely) occurred for 33/78
- 4 participants (42.31%). When considered individually, two variables emerged as significant
- 5 predictors of attrition: negative affect and personality psychopathology (Supplementary
- 6 **Table 1**).

2

7

Predictors of Eating Disorder Symptoms

- 8 Table 1 presents the coefficients for all fixed effects in the null model and
- 9 conditional models predicting global eating disorder psychopathology. Model 1 shows
- significant within- and between-subject variance in global eating disorder
- psychopathology while Model 2 demonstrates a significant contribution of time to the
- decrease in eating psychopathology. Model 3 results show that, with the exception of
- readiness to change, all variables were significant predictors of variance in eating
- 14 psychopathology in the expected directions in addition to time. The greatest impact was
- that of BIF, followed by body image avoidance, negative affect, body checking,
- personality beliefs, and self-efficacy.
- Only two significant interactions with time emerged BIF, F(1, 46.34) = 5.97,
- 18 p = .02, and body image avoidance, F(1, 167.46) = 6.24, p = .01. Participants with high
- 19 BIF had significantly lower eating disorder symptoms at every time point and participants
- with lower body image avoidance had significantly lower eating disorder symptoms at
- baseline, mid-treatment, and post-treatment (see Figure 1). Fit indices support the BIF
- 22 model as being closest to the true model.
- Analyses were rerun sequentially including age, duration of eating disorder, and
- 24 negative affect as covariates. Only negative affect significantly contributed to outcome,
- but it did not change the pattern of significance of other variables (with the exception of

1	personality beliefs, which was no longer a significant predictor). Readiness to change
2	became a significant predictor when duration was included in the model.

4 DISCUSSION

Contrary to the first hypothesis, neither readiness to change or self-efficacy were significant predictors of dropout in this brief version of CBT-ED. The second hypothesis was partially supported, as all variables (excluding readiness to change) were significant baseline predictors (in the predicted directions) of changes in global eating disorder psychopathology over treatment. The third hypothesis was also partially supported, as BIF and avoidance (but not checking) at the start of treatment were moderators between time and global eating disorder psychopathology over the course of treatment. BIF was the stronger predictor, with higher flexibility predicting significantly better outcomes at each assessment point. Less body image avoidance was associated with significantly better outcomes over treatment, though not follow-up. The focus on overcoming body image avoidance during CBT-ED might allow patients higher in avoidance to 'catch up' by follow-up.

While other variables were not moderators, the majority were significant predictors of variance in global eating disorder psychopathology (Linardon, Garcia, & Brennan, 2017; Vall & Wade, 2015), with the exception of readiness to change. It has previously been suggested and found that behavioral change, rather than stated motivation, is a more powerful predictor of outcome (Waller, 2012). Thus, the use of CBT-T (which strongly emphasizes early behavioral change) might make baseline motivational measures irrelevant to outcome.

Further research is needed to address limitations. CBT-T is a new, shorter therapy that has thus far only been evaluated with case series. Future investigation of

1	moderators using a randomized controlled design with a longer follow-up and larger
2	sample size is needed to confirm the importance of body image variables as a moderator of
3	treatment. Patients with a BMI under 17.5 were not included, so findings cannot be
4	generalized to this population.
5	Future treatment studies should explore whether focusing on BIF increases rates
6	of remission and good outcome, either by modifying treatment protocols or using adjunct
7	therapies. For example, imagery rescripting (IR) has been found to result in significantly
8	higher BIF compared to a cognitive dissonance intervention in a sample of body-
9	dissatisfied young women (Pennesi & Wade, 2018). Improvements in BIF post-treatment
10	have been found with a number of treatments, including CBT, Acceptance and
11	Commitment Therapy (ACT), and mindfulness (Bluett et al., 2016; Butryn et al., 2013;
12	Lee et al., 2017).
13	
14	Lee et al., 2017).

1	References
2	Amin, R., Strauss, C., & Waller, G. (2012). Body-related behaviours and cognitions in the
3	eating disorders. Behavioural and Cognitive Psychotherapy, 42, 65-73. doi:
4	10.1017/S1352465812000914
5	Bluett, E. J., Lee, E. B., Simone, M., Lockhart, G., Twohig, M. P., Lensegrav-Benson, T., &
6	Quakenbush-Roberts, B. (2016). The role of body image psychological flexibility on
7	the treatment of eating disorders in a residential facility. Eating Behaviors, 23, 150-
8	155. doi: 10.1016/j.eatbeh.2016.10.002
9	Butler, A. C., Beck, A. T., & Cohen, L. H. (2007). The personality belief questionnaire-short
10	form: Development and preliminary findings. Cognitive Therapy and Research, 31,
11	357-370. doi: 10.1007/s10608-006-9041-x
12	Butryn, M. L., Juarascio, A., Shaw, A., Kerrigan, S. G., Clark, V., O'Planick, A., & Forman,
13	E. M. (2013). Mindfulness and its relationship with eating disorders symptomatology
14	in women receiving residential treatment. Eating Behaviors, 14, 13-16. doi:
15	10.1016/j.eatbeh.2012.10.005
16	Fairburn, C. G., & Beglin, S. J. (2008). Eating disorder examination questionnaire (EDE-Q
17	6.0). In C. G. Fairburn (Ed.), Cognitive behavior therapy and eating disorders (pp.
18	309-314). New York, NY: The Guilford Press.
19	Feld, R., Woodside, D. B., Kaplan, A. S., Olmsted, M. P., & Carter, J. C. (2001).
20	Pretreatment of motivational enhancement therapy for eating disorders: A pilot study.
21	International Journal of Eating Disorders, 29, 393-400. doi: 10.1002/eat.1035
22	Kelly, A. C., Carter, J. C., Zuroff, D. C., & Borairi, S. (2013). Self-compassion and fear of
23	self-compassion interact to predict response to eating disorders treatment: A
24	preliminary investigation. Psychotherapy Research, 23, 252-264. doi:
25	10.1080/10503307.2012.717310

1 Lee, E. B., Ong, C. E., Twohig, M. P., Lensegrav-Benson, T., & Quakenbush-Roberts, B. 2 (2017). Increasing body image flexibility in a residential eating disorder facility: 3 Correlates with symptom improvement. Eating Disorders, Advance online 4 publication, 1-15. 5 Linardon, J., Garcia, X. d. l. P., & Brennan, L. (2017). Predictors, moderators, and mediators 6 of treatment outcome following manualised cognitive-behavioural therapy for eating 7 disorders: A systematic review. European Eating Disorders Review, 25, 3-12 doi: 8 10.1002/erv.2492 9 Lovibond, P. F., & Lovibond, S. H. (1995). The structure of negative emotional states: 10 Comparison of the Depression Anxiety Stress Scales (DASS) with the Beck 11 Depression and Anxiety Inventories. Behaviour Research and Therapy, 33, 335-343. 12 doi: 10.1016/0005-7967(94)00075-U 13 Mond, J. M., Hay, P. J., Rodgers, B., & Owen, C. (2006). Eating disorder examination 14 questionnaire (EDE-Q): Norms for young adult women. Behaviour Research and 15 Therapy, 44, 53-62. doi: 10.1016/j.brat.2004.12.003 Pellizzer, M. L., Tiggemann, M., Waller, G., & Wade, T. D. (2017). Measures of body 16 17 image: Confirmatory factor analysis and association with disordered eating. 18 Psychological Assessment, Advance online publication. doi: 10.1037/pas0000461 19 Pennesi, J.-L. P., & Wade, T. D. (2018). Imagery rescripting and cognitive dissonance: A 20 randomized controlled trial of two brief online interventions for women at risk of 21 developing an eating disorder. *Unpublished manuscript*. 22 Reas, D. L., Whisenhunt, B. L., Netemeyer, R., & Williamson, D. A. (2002). Development of 23 the Body Checking Questionnaire: A self-report measure of body checking behaviors. 24 International Journal of Eating Disorders, 31, 324-333. doi: 10.1002/eat.10012

1	Rosen, J. C., Srebnik, D., Saltzberg, E., & Wendt, S. (1991). Development of a Body Image
2	Avoidance Questionnaire. Psychological Assessment: A Journal of Consulting and
3	Clinical Psychology, 3, 32-37. doi: 10.1037/1040-3590.3.1.32
4	Sandoz, E. K., Wilson, K. G., Merwin, R. M., & Kellum, K. K. (2013). Assessment of body
5	image flexibility: The Body Image-Acceptance and Action Questionnaire. Journal of
6	Contextual Behavioral Science, 2, 39-48. doi: 10.1016/j.jcbs.2013.03.002
7	Steele, A. L., Bergin, J., & Wade, T. D. (2011). Self-efficacy as a robust predictor of outcome
8	in guided self-help treatment for broadly defined bulimia nervosa. International
9	Journal of Eating Disorders, 44, 389-396. doi: 10.1002/eat.20830
10	Vall, E., & Wade, T. D. (2015). Predictors of treatment outcome in individuals with eating
11	disorders: A systematic review and meta-analysis. International Journal of Eating
12	Disorders, 48, 946-971. doi: 10.1002/eat.22411
13	Waller, G. (2012). The myths of motivation: Time for a fresh look at some received wisdom
14	in the eating disorders? International Journal of Eating Disorders, 45, 1-16. doi:
15	10.1002/eat.20900
16	Waller, G., Tatham, M., & Turner, H. (2016). Brief, intensive CBT for non-underweight
17	eating-disordered outpatients: What can one achieve in just ten sessions Paper
18	presented at the International Conference on Eating Disorders, San Francisco, CA,
19	May.
20	

1 Table 1

2 Fixed effect estimates and model fit indices for models predicting eating disorder symptoms.

	Intercept	Time	Predictor	Predictor * Time	AIC	BIC	Within-Subjects Variance	Between-Subjects Variance
Model 1	2.75 (.13) **				915.43	926.06	1.56 (.16) **	.82 (.23) **
Model 2	4.33 (.12) **	65 (.05) **			741.04	758.75	.70 (.07) **	.05 (.01) **
Model 3:								
BI-AAQ	4.30 (.10) **	66 (.05) **	92 (.11) **	.12 (.05)*	664.49	689.23	.53 (.06) **	.04 (.02)
BIAQ	4.32 (.10) **	65 (.05) **	.81 (.11) **	13 (.05)*	686.87	711.63	56 (.06) **	.04 (.01) **
BCQ	4.32 (.11) **	66 (.05) **	.66 (.12) **	08 (.06)	703.58	728.35	.62 (.06) **	.04 (.01) **
DASS	4.33 (.11) **	65 (.05) **	.73 (.11) **	08 (.05)	673.37	697.99	.58 (.06) **	.03 (.01) **
PBQ	4.36 (.11) **	67 (.05) **	.57 (.12) **	10 (.06)	716.30	741.06	.64 (.07) **	.04 (.01) **
Readiness to Change	4.32 (.12) **	65 (.05) **	31 (.12)	.05 (.05)	725.71	750.36	.69 (.07) **	.05 (.01) **
Self-Efficacy	4.32 (.11) **	65 (.05) **	50(.12) **	.06 (.05)	711.14	735.79	.66 (.07) **	.04 (.01) **

Note. * p < .05; ** p < .001.

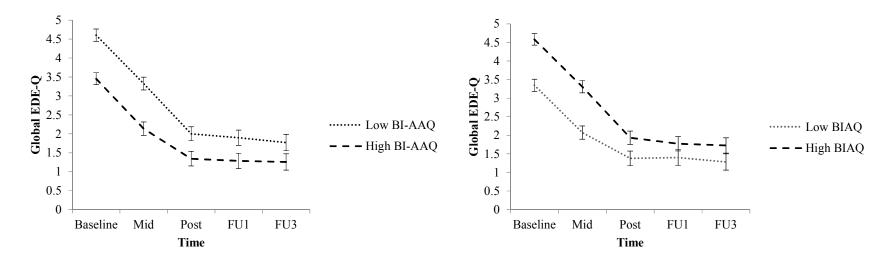
8

⁴ Predictors were only considered significant if < .01 to correct for multiple comparisons.

⁵ Estimate (Standard Error).

⁶ BI-AAQ = Body Image Acceptance and Action Questionnaire; BIAQ = Body Image Avoidance Questionnaire; BCQ = Body Checking Questionnaire; DASS = Depression

⁷ Anxiety and Stress Scales; PBQ = Personality Beliefs Questionnaire



- 2 Figure 1. Body image flexibility (BI-AAQ) and Body image avoidance (BIAQ) x Time predicts rate of change in eating disorder symptoms
- 3 (EDE-Q).

- 4 Note. The median was used to split scores into high and low. High scores are 31 and above for body image flexibility and 53 and above for body
- 5 image avoidance.

1 Supplementary Table 1

2 Binary logistic regression analyses assessing predictors of attrition

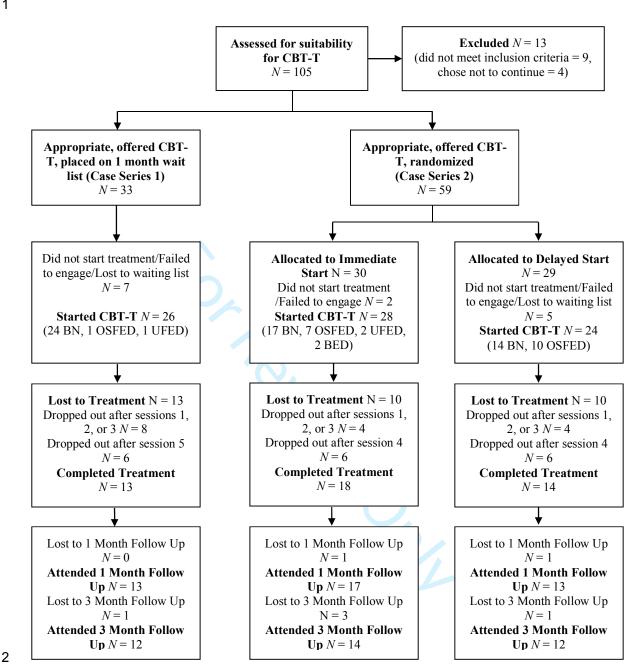
Variable	Completers M (SD)	Attrition M (SD)	OR (95% CI)
Body image flexibility	30.66 (12.40)	32.41 (14.04)	1.15 (0.72 – 1.82)
Body image avoidance	50.58 (15.51)	53.69 (19.17)	1.20 (0.76 – 1.91)
Body checking	86.26 (26.84)	92.81 (37.10)	1.24 (0.78 – 1.96)
Negative affect	26.08 (13.74)	33.34 (14.08)	1.72 (1.05 – 2.81)
Personality beliefs	83.19 (36.17)	111.34 (47.95)	2.04 (1.21 – 3.45)
Readiness to Change	81.81 (20.88)	75.53 (17.97)	0.72 (0.45 – 1.16)
Self-Efficacy	63.70 (22.53)	62.03 (21.91)	0.93 (0.59 – 1.47)

³ Note.

⁴ Significant analyses are bolded.

⁵ Means and standard deviations for original, unstandardized predictors.





- 3 Figure 1. CONSORT diagram
- 4 Note. BN = Bulimia Nervosa, OSFED = Other Specified Feeding and Eating Disorder, UFED = Unspecified
- 5 Feeding and Eating Disorder, BED = Binge Eating Disorder.