



# *Eating pathology in midlife women: similar or different to younger counterparts?*

Article

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1 Eating pathology in midlife women: similar or different to younger counterparts?

2 Running title: Eating Disorders in Midlife Women

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## **Abstract**

**Objective:** This study examined potential similarities and differences between women with eating disorders (EDs) in midlife and their younger counterparts.

**Method:** Seven hundred and three women assessed by a specialist eating disorder service were divided into 3 groups based on age (18 – 25, 25 – 40, and 40+) and compared on a number of clinical and demographic measures. Distribution of ED diagnoses was also examined between groups.

**Results:** Midlife women were less likely to receive a diagnosis of anorexia nervosa and more likely to receive a diagnosis of binge-eating disorder than their younger counterparts. Duration of illness was longer and age of ED onset later in the midlife group but no differences were seen on measures of global ED pathology, psychosocial impairment, or psychological distress.

**Discussion:** This study adds to the developing literature concerning EDs in midlife women, although further work is needed to support the findings presented here and to examine profiles of males presenting to treatment centres.

**Keywords:** middle-age, midlife, diagnosis, age of onset, anorexia nervosa, bulimia nervosa, binge-eating disorder

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## Introduction

1  
2 Incidence of eating disorders (EDs) is commonly associated with younger women,  
3 perhaps due to the relatively early typical age of onset and the gender disparity  
4 frequently seen (e.g., Fairburn & Harrison, 2003). However, studies of women in  
5 midlife (a commonly used range is 35 – 55y, although definitions often vary) suggest  
6 that around 5% meet diagnostic criteria for an ED, with greater numbers falling within  
7 the spectrum of eating disturbance (Mangweth-Matzek et al., 2014; see also  
8 Larrañaga, Docet, & García-Mayor, 2012; McGuinness & Taylor, 2016; Marcus et al.,  
9 2007; Slof-Op't Landt et al., 2017). Distinct symptoms, such as binge eating and  
10 fear of weight gain, have been found to occur in more than 10% of midlife women  
11 (e.g., Fairweather-Schmidt, Lee, & Wade, 2015; de Freitas et al., 2008; Marcus et  
12 al., 2007) and a number of studies suggest that admission rates of midlife women to  
13 ED units have increased markedly in recent decades (e.g., Ackard et al., 2013;  
14 Cumella & Kally, 2008).

15         Given these concerning statistics, alongside findings that older age is  
16 associated with poorer outcome (e.g., Ackard et al., 2014; Marcus et al., 2007), it is  
17 perhaps surprising that there exists little information on the characteristics of midlife  
18 women presenting for outpatient ED treatment. Elran-Barak et al. (2015) looked at  
19 individuals seeking treatment at one of four sites in the USA, finding that prevalence  
20 of bulimia nervosa (BN) was lower in midlife individuals (age  $\geq 40$  years) than a  
21 younger sample (18 – 25 years of age), but that binge-eating disorder (BED) and  
22 atypical EDs were more common. Prevalence of anorexia nervosa (AN) did not  
23 differ between groups. This study provided important information on diagnostic  
24 prevalence, but only reported comparisons between younger and older women  
25 within diagnostic groups. Therefore, more information is needed concerning whether

1 midlife women differ from younger groups in degree of ED pathology, for example.  
2 Elran-Barak et al. also highlighted the need for more research investigating age of  
3 onset and psychological comorbidity, which may have implications for treatment  
4 design and provision.

5         Looking specifically at inpatient admissions, contrasting findings were  
6 presented by Ackard et al. (2013, Study 1) who found that midlife patients (40 years  
7 or older) were more likely to present with BN than their younger counterparts (18 –  
8 39y). The same authors also reported on a sample of 164 women presenting for any  
9 level of treatment (Study 2), finding few differences between the two groups in terms  
10 of self-esteem, depression, anxiety, and eating pathology. However, Ackard and  
11 colleagues did find that age of onset was higher in midlife compared to a younger  
12 group (21.4y vs. 17.0y) and that duration of illness was also different (26.5y vs. 8.1y)  
13 (see also Forman & Davis, 2005). It would be expected, though, that duration of  
14 illness would typically be longer in midlife samples seeking treatment as, irrespective  
15 of age at onset, midlife women have lived longer than their younger counterparts.

16         It seems, then, that data on whether diagnostic prevalence differs between  
17 midlife and younger samples is limited, and at times conflicting. Studies on midlife  
18 women, generally considered as those aged over 40 years old (Elran-Barak et al.,  
19 2015), have tended to focus on more broadly-defined eating pathology (Slevec &  
20 Tiggemann, 2011), with many concerned only with community samples or those  
21 presenting for residential treatment. Some data suggest that midlife women report  
22 fewer concerns about body shape compared to younger patients but may experience  
23 poorer quality of life, and higher levels of psychological distress and interpersonal  
24 problems (e.g., Ackard et al., 2014). Other equivocal data concern age of onset,  
25 with some studies finding older age of onset (and longer duration of illness) in midlife

1 samples. This contrasts with data suggesting that age of onset in some EDs is  
2 decreasing (e.g., Favaro et al., 2009) and might suggest that there is a subgroup of  
3 older individuals who develop an ED later in life (i.e., late onset; see Gupta, 1990;  
4 Bueno et al., 2014). Such 'late onset' EDs have been variously defined as over 40  
5 years old (Kally & Cumella, 2008) or over 25 years old (Bueno et al., 2014),  
6 reflecting the view that age of onset is notoriously "difficult to determine with any  
7 precision in most cases" (Arcelus, Mitchell, & Wales, 2011, p. 729).

8         Given the small number of studies, it is perhaps unsurprising that some  
9 contradictions have arisen. Differences between the studies of Ackard et al. (2013)  
10 and Elran-Barak et al. (2015) may have been due to how age groups were split –  
11 Ackard et al. compared adults over 40 with those under 40 whereas Elran-Barak et  
12 al. looked at three groups (18 – 25, 26 – 39, and 40+), which may lead to  
13 contradictions in interpretation, particularly if those aged 18 – 25 present differently  
14 to older groups. Furthermore, the upper age was different between the studies and  
15 nearly half of those presenting for treatment in the study of Ackard et al. received  
16 inpatient treatment, which is unlikely to be representative of many treatment  
17 programs in the UK at least (e.g., Robinson, 1993).

18         The lack of information on midlife women led one group of authors to  
19 conclude recently that "our understanding of the needs of [middle-aged] women  
20 seeking treatment is in its nascence" (Ackard et al., 2013, p. 177). The current study  
21 aims to look in detail at individuals in midlife who attend for specialist treatment of an  
22 ED. It will present data on the distribution of different ED diagnoses and will  
23 compare midlife women with younger women on a number of clinical and  
24 demographic measures. Given conflicting methods in existing empirical work, the  
25 study will compare three age groups (i.e., 18 – 25, 25 – 40, 40+), using 40 years of

1 age as a common definition of midlife (e.g., Elran-Barak et al., 2015; Kally &  
2 Cumella, 2008). The method of dividing the sample into three separate groups was  
3 chosen in order to include the full age spectrum, whilst being able to look at  
4 differences between clearly-defined age groups that have been previously studied  
5 (cf., Elran-Barak et al., 2015). We were also interested in whether age differences  
6 existed between those who did and did not attend their initial assessment as this has  
7 important implications for accessing treatment. Given limited findings to-date, we  
8 hypothesised that BED would be more common in the midlife group. In line with  
9 others (Mangweth-Matzek et al., 2014) our clinical experience suggests that midlife  
10 women present with similar levels of symptoms and impairment to younger samples,  
11 and were interested to see whether this was substantiated in a large, treatment-  
12 seeking sample.

13

14

## Methods

### Participants

16 Participants were referred to an outpatient eating disorders service based in the UK.  
17 This service offers specialist, evidence-based treatment to adults with an ED,  
18 including guided self-help, cognitive behaviour therapy, and interpersonal  
19 psychotherapy. Some individuals referred to the service will subsequently be  
20 referred for more intensive treatment (e.g., inpatient care). Between April 2014 and  
21 April 2017, 896 outpatient referrals were received, the majority of which came from  
22 primary care (n = 641; 74.8%). In line with the study's primary aims, for remaining  
23 analyses only those who attended for assessment were included. Men (n = 47;  
24 6.3%) were also excluded due to relatively small numbers. Participants were  
25 subsequently stratified by age into 3 groups: 18 to 25 years (54.3%; n = 382), 25 to



1 40 years (28.4%, n = 200) and 40 years and above (17.2%, n = 121). The study was  
2 approved by the local NHS Quality and Audit Team.

3

#### 4 **Procedures**

5 Individuals met with a qualified clinician (e.g., nurse specialist, psychologist,  
6 psychiatrist) who established diagnosis following a semi-structured interview  
7 according to criteria for feeding and eating disorders (DSM-5; APA, 2013). Twenty-  
8 nine of those who attended assessment (4.1%) did not meet criteria for an ED.  
9 Additional information collected included age and self-reported age at onset of ED  
10 (although the procedure for identifying the latter was not standardised); duration of  
11 illness was calculated as the difference. Of 611 individuals who provided this  
12 information, 317 (51.9%) reported having received previous treatment. Weight and  
13 height were measured with calibrated scales, used to calculate body mass index  
14 (BMI; kg/m<sup>2</sup>). In advance of this appointment, each individual was sent a self-report  
15 questionnaire pack which they were invited to complete although not all individuals  
16 did so.

17 The Eating Disorder Examination – Questionnaire (EDE-Q; Fairburn & Beglin,  
18 1994) is a 36-item measure assessing behavioural and cognitive symptoms of eating  
19 pathology experienced in the last 28 days. The EDE-Q produces a number of  
20 behavioural indices (e.g., objective binge eating, self-induced vomiting) as well as  
21 four subscales (Restraint, Eating Concern, Shape Concern, Weight Concern).  
22 Subscales are rated on a six-point Likert scale, with higher scores indicative of  
23 greater symptomatology. A Global score can be calculated from the cognitive items,  
24 which provides a general index of ED pathology. Due to strong correlation ( $r = 0.88$ )  
25 between the Shape Concern and Weight Concern subscales, a combined

1 'Weight/Shape Concern' subscale was derived from the mean of all 12 items (e.g.,  
2 see Berg, Peterson, Frazier, & Crow, 2012). Cronbach's  $\alpha$  in the current sample  
3 were as follows: Restraint, 0.82; Eating Concern, 0.77; and Weight/Shape Concern,  
4 0.92.

5 The Clinical Impairment Assessment questionnaire (CIA; Bohn & Fairburn,  
6 2008) assesses severity of psychosocial impairment attributable to ED symptoms  
7 experienced over the last 28 days. The measure has shown good psychometric  
8 properties in comparable samples (Jenkins, 2013), and the 16 items are rated on a  
9 0–3 scale, with higher scores indicating greater levels of impairment. A cut-off of 16  
10 has been suggested to predict ED case status (Bohn et al., 2008). Cronbach's  $\alpha$   
11 was 0.92.

12 The Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM;  
13 Barkham et al., 2001) is a 34-item scale, which provides a measure of general  
14 psychological distress experienced over the previous 7 days. Items are scored from  
15 0 to 4 and provide a total score, calculated as the mean of all items multiplied by 10  
16 (see Connell et al., 2007). A cut-off of 10 is recommended to indicate clinical  
17 significance and its utility in the study of individuals with EDs has been established  
18 (Jenkins & Turner, 2014). Cronbach's  $\alpha$  was 0.95.

19

## 20 **Statistical Analyses**

21  $\chi^2$  tests were used to examine differences among groups on categorical variables  
22 (e.g., diagnoses, assessment attendance) and continuous data (e.g., age of onset,  
23 EDE-Q scores) were analysed with Kruskal-Wallis or Mann-Whitney procedures due  
24 to non-normal distribution of data. Significant differences were explored using post

1 hoc Mann-Whitney  $U$  tests. Significance level was set at  $p < .05$  and all tests were  
2 conducted using SPSS Version 22.

3

4

## Results

### 5 Attendance at First Assessment

6 There were no significant differences between those who attended their initial  
7 assessment ( $n = 750$ ) and those who did not ( $n = 146$ ) in terms of age (mean (SD) =  
8 28.2y (11.1y) vs. 28.6y (11.5y),  $U = 52540.500$ ,  $z = -.774$ ,  $p = .439$ ) or gender  
9 (93.7% female vs. 89.7% female,  $\chi^2 (1) = 3.047$ ,  $p = .081$ ).

10

### 11 Diagnostic Differences

12 As summarised in Table 1, those aged 18 – 25 were more likely to be diagnosed  
13 with AN than other groups ( $\chi^2 (1) = 8.92$ ,  $p = .003$ ). Those aged 25 – 40 were  
14 equally likely as other groups to be diagnosed with AN ( $\chi^2 (1) = 0.24$ ,  $p = .63$ ), and  
15 midlife women were less likely to receive an AN diagnosis ( $\chi^2 (1) = 11.28$ ,  $p = .001$ ).

16 There were no group differences regarding proportions of BN ( $\chi^2 (2) = 1.284$ ,  $p =$   
17  $.53$ ). Those aged 18 – 25 were less likely to be diagnosed with BED than other  
18 groups ( $\chi^2 (1) = 13.67$ ,  $p = <.001$ ). Those aged 25 – 40 were equally likely to be  
19 diagnosed with BED ( $\chi^2 (1) = 0.02$ ,  $p = .90$ ) as other age groups. Midlife women  
20 were more likely to be diagnosed with BED ( $\chi^2 (1) = 22.34$ ,  $p = <.001$ ). There were  
21 no group differences regarding proportion of 'other' ED diagnoses ( $\chi^2 (2) = 1.451$ ,  $p =$   
22  $.48$ ).

23

24

INSERT TABLE 1

25

## 1 **Previous Treatment**

2 Results found no differences between age groups regarding receipt of previous  
3 treatment ( $\chi^2(2) = 1.69, p = .431$ ); see Table 2.

4

## 5 **Markers of Disordered Eating**

6 As shown in Table 2, BMI differed across groups ( $H(2) = 17.48, p < .001$ ), with post  
7 hoc analyses finding that the youngest group (18 – 25y) was lower than both other  
8 groups, which were statistically equivalent. Duration of illness differed across groups  
9 ( $H(2) = 207.76, p < .001$ ), with post hoc analyses finding that all groups differed from  
10 each other. Scores on the Global scale of the EDE-Q were equivalent ( $H(2) = 3.89,$   
11  $p = 0.14$ ). Weight and Shape Concerns differed across groups ( $H(2) = 7.68, p =$   
12  $0.021$ ), and Mann-Whitney tests found that the youngest group (18 – 25y) had lower  
13 scores than the other two groups, which were statistically equivalent.

14

15

INSERT TABLE 2

16

## 17 **Psychological Distress and Psychosocial Impairment**

18 Scores on the CORE-OM ( $H(2) = 3.20, p = 0.202$ ) and CIA ( $H(2) = 2.47, p = 0.292$ )  
19 were equivalent across groups. Degree of distress and impairment was high within  
20 the sample, with 498 of 559 (89.1%) individuals scoring above 10 on the CORE-OM,  
21 and 501 of 560 (89.5%) scoring above 16 on the CIA.

22

## 23 **Age of Onset**

24 Age of onset was different across groups ( $H(2) = 10.32, p = .006$ ), with the youngest  
25 group (18 – 25y) reporting a younger age of onset than the other two groups, which

1 were statistically equivalent. Of 307 individuals for whom data were available, only 2  
2 (0.7%) were documented as having an ED onset over 40 years of age and 20 (6.5%)  
3 over the age of 25. Statistical comparisons between groups were therefore not  
4 performed. However, for those with an onset over 25, seven (35.0%) had AN, four  
5 (20.0%) BN, and the remainder 'other EDs' (n = 9; 45.0%). There were no  
6 individuals with BED with a reported onset after 25 years of age.

7

8

### Discussion

9 The current study aimed to describe the characteristics of women in midlife who  
10 present for treatment of EDs. Overall, slightly fewer than 20% of individuals  
11 assessed for treatment were aged over 40 and, of these, just over one-third  
12 presented with atypical or 'other' eating disorders.

13 Comparison with existing studies suggests that the proportion of atypical EDs is  
14 similar, at around 30 – 40% (see Ackard et al., 2013; Elran-Barak et al., 2015), but  
15 proportions of other diagnoses were more variable. For example, similar numbers of  
16 BN were observed between the current study (20.7%) and that of Ackard et al.  
17 (2013) (16.7%), with slightly higher rates (29.9%) reported by Elran-Barak et al.  
18 (2015). Regarding BED, the results presented here concur with those of Elran-Barak  
19 et al. in suggesting that women in midlife are more likely to be diagnosed with BED  
20 than younger individuals. Findings regarding AN are more equivocal, partly  
21 confounded by the fact that many studies have included inpatient samples, which are  
22 likely to report a higher proportion of individuals with AN (e.g., Cumella & Kally,  
23 2008). However, the finding reported here that women in midlife are less likely to be  
24 diagnosed with AN has been reported previously (Ackard et al., 2014; cf. Elran-  
25 Barak et al., 2015).

1           Looking at ED symptoms, results suggest that midlife women present perhaps  
2 as more similar than they are different compared to younger groups (see also Perez,  
3 Hernandez, Clarke, & Joiner, 2007). Although levels of ED pathology, as measured  
4 by the Global scale of the EDE-Q, were similar, the youngest group (18 – 25y)  
5 reported lower weight and shape concerns than the older groups, which were  
6 equivalent, a finding similar to that of Tiggemann and Stevens (1999) in a sample of  
7 180 women aged between 18 – 60. Similar patterns were also evident in BMI and  
8 age of onset. The finding that duration of illness is longer (e.g., Cumella & Kally,  
9 2008; Forman & Davis, 2005) was supported, suggesting that women in midlife  
10 presenting for treatment have lived with the illness for longer than their younger  
11 counterparts, which might negatively affect treatment outcome (e.g., Reas,  
12 Williamson, Martin, & Zucker, 2000). Although this should not be taken as evidence  
13 that older women cannot benefit from treatment, it does suggest that greater efforts  
14 should be made to intervene with disordered eating at earlier stages of the illness.  
15 The finding of a longer duration of illness, however, is confounded by obvious age  
16 differences between groups. Indeed, mean duration of illness (27.4y) of the oldest  
17 group exceeded the upper age limit for the youngest group.

18           Many of these findings, however, should be seen in the context of the  
19 distribution of ED diagnoses. For example, it is likely that differences in BMI, for  
20 example, were strongly related to the higher prevalence of AN in the younger sample  
21 and BED in the older samples. However, as BMI increases with age (Deurenberg,  
22 Weststrate, & Seidell, 1991), this conclusion cannot be confirmed in the current  
23 study. Interestingly, the current study showed that all age groups were equivalent on  
24 measures of psychological distress and impairment (cf. Ackard et al., 2014), and

1 scores for the midlife group were in line with other studies of ED samples (e.g.,  
2 Jenkins, 2013; Jenkins & Turner, 2014), again suggestive of similarity.

3         Investigating age of onset within EDs was a secondary aim of the study,  
4 although this is difficult to determine accurately (Arcelus et al., 2011) and the  
5 procedure was not standardised in the current study. Given these caveats, relatively  
6 small numbers of 'late onset' cases were seen, with smaller proportions than  
7 previous work (e.g., Bueno et al., 2014; Kimura et al., 2007). Of particular note,  
8 there were no cases of 'late onset' BED in this large sample, although this has been  
9 documented (e.g., Beck, Casper, & Andersen, 1996) and more work is required in  
10 this area given what little is known (Bueno et al., 2014). In addition to possibly being  
11 related to diagnostic distribution within the different age groups, findings may also  
12 reflect different referral, identification, and assessment practices across time periods.  
13 Thus, the possibility that cohort effects influenced findings represents a limitation of  
14 the study, which nonetheless provides a cross-sectional view of eating pathology  
15 and impairment across the age range.

16         The current study adds to the literature in a number of ways. Firstly, it  
17 presents information from a large sample of women regarding prevalence of ED  
18 diagnoses and symptoms, showing similar figures to existing work (e.g., Ackard et  
19 al., 2014). However, it also goes beyond this by including a large sample of women  
20 presenting for outpatient treatment and looking at both diagnostic breakdown (e.g.,  
21 Elran-Barak et al., 2015) and wider symptoms. The study presents data on three  
22 distinct age groups, perhaps revealing interesting similarities amongst those aged  
23 over 25. Finally, it reviewed age of onset, although found few individuals reporting  
24 illness onset beyond 25 years of age, which warrants further research. Some  
25 shortcomings and limitations should be noted. As men were omitted from this study,

1 this perhaps lends support to the idea that “men aged midlife and beyond might be  
2 the most stigmatized group to suffer from an eating disorder” (Reas & Stedal, 2015,  
3 p. 254). The study was limited by use of retrospective review of routinely-referred  
4 patients within an outpatient setting in the UK, particularly as results may differ  
5 across settings (e.g., inpatients, or primary care). As sociocultural factors have been  
6 associated with presentation of different EDs (e.g., Hoek et al., 1995), further studies  
7 might seek to replicate the findings reported here. In addition, a large proportion of  
8 individuals indicated that they had previously received treatment for an ED, although  
9 this proportion is similar to other tertiary centres in the UK (e.g., Treasure, Schmidt,  
10 Troop, Tiller, Todd, & Turnbull, 1996) and clinics in the US (e.g., Crow, Mussell,  
11 Peterson, Knopke, & Mitchell, 1999). Differences with previous work might reflect  
12 this methodological aspect but could also be related to the diagnostic criteria used  
13 (i.e., DSM-IV vs. DSM-5).

14 Results of the study argue for continued attention to reducing barriers to  
15 accessing treatment and identifying cases as early as possible (e.g., Reas et al.,  
16 2000). A recent study highlighted the importance of adequate healthcare provision  
17 with regards to women in midlife (Micali et al., 2017), and thus the present findings  
18 serve as a continued reminder that EDs occur across the age range. Further studies  
19 might look at whether EDs in older individuals are being correctly identified, and  
20 whether current psychological therapies are sufficiently personalised to address the  
21 needs of all those presenting for ED treatment. Given the similarities across groups  
22 noted here, it likely that many core strategies will remain relevant and effective for  
23 women in midlife, but age-related differences may warrant consideration.

24 In summary, this study suggests that midlife women are more similar than  
25 different to their younger counterparts, although older women appear more likely to



- 1 present with BED. Degree of global eating pathology, ED-related psychosocial
- 2 impairment, and psychological distress remained similar across the age range.
- 3 Further work in this area is needed, particularly concerning age of onset and
- 4 inclusion of male samples.

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1 Table 1. Distribution of diagnoses across age groups

Diagnoses, n	Age Group			Total Sample (n = 703)	$\chi^2$
	18 – 25y (n = 382)	25 – 40y (n = 200)	40+ (n = 121)		
AN	162 (42.4%)	72 (36.0%)	29 (24.0%)	263 (37.6%)	13.584**
BN	88 (23.0%)	52 (26.0%)	25 (20.7%)	165 (23.5%)	1.284
BED	8 (2.1%)	10 (5.0%)	16 (13.2%)	34 (4.8%)	24.744**
Other	111 (29.1%)	59 (29.5%)	42 (34.7%)	212 (30.2%)	1.451
No ED	13 (3.4%)	7 (3.5%)	9 (7.4%)	29 (4.1%)	4.059

2 Note: \*\*p < .01; AN = anorexia nervosa; BN = bulimia nervosa; BED = binge-eating  
3 disorder

1 Table 2. Demographic and clinical characteristics of women with EDs

Demographics, mean (SD)	Age Group			Total Sample	Kruskal-Wallis	
	18 – 25y (n = 382) <sup>a</sup>	25 – 40y (n = 200) <sup>b</sup>	40+ (n = 121) <sup>c</sup>		$\chi^2$	Mann-Whitney
BMI	19.16 (4.11)	21.30 (6.38)	24.13 (10.69)	20.59 (6.56)	17.476**	a < b, a < c, b = c
Age of onset	16.05 (2.91)	18.11 (5.70)	20.16 (10.09)	17.15 (5.35)	10.315**	a < b, a < c, b = c
DOI	4.31 (3.27)	12.97 (6.82)	27.36 (11.16)	9.63 (9.65)	207.756**	a < b < c
EDE-Q Global	3.90 (1.40)	4.15 (1.26)	4.15 (1.31)	4.01 (1.35)	3.822	ns
WSC	4.29 (1.51)	4.59 (1.37)	4.62 (1.40)	4.42 (1.46)	7.483*	a < b, a < c, b = c
CIA	31.40 (11.77)	32.52 (10.39)	33.87 (10.40)	32.11 (11.20)	2.431	ns
CORE-OM	18.73 (7.28)	19.54 (7.14)	20.31 (8.09)	19.21 (7.39)	3.253	ns
Previous treatment, <i>n</i>	178 (51.9%)	82 (48.8%)	57 (57.0%)	317 (51.9%)	1.685	-

2 Note: Numbers differ across groups as not all individuals completed all measures

3 \**p* < .05, \*\**p* < .01; BMI = body mass index; DOI = duration of illness; EDE-Q =

4 Eating Disorder Examination – Questionnaire; WSC = Weight and Shape Concern;

- 1 CIA = Clinical Impairment Assessment questionnaire; CORE-OM = Clinical
- 2 Outcomes in Routine Evaluation-Outcome Measure