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Abstract

Background: with the DSM-5 new eating disorders (EDs) diagnostic subtypes were identified within the Other Specified Feeding or Eating Disorders (OSFED) category, which have so far been under-researched. **Objectives** of this study were to examine differential features among OSFED subtypes, exploring short-term cognitive-behavioral therapy (CBT) response and identifying clinical predictors of therapy outcome. **Methods:** the sample included 176 female patients diagnosed with OSFED [82 atypical anorexia nervosa (atypical-AN), 57 purging disorder (PD), and 37 subthreshold bulimia nervosa (sub-BN)]. Assessment included eating-related, psychopathological and personality measures. **Results:** results showed similar clinical and personality profiles between the diagnostic subtypes, with hardly any differences, only observable in the core symptoms of each diagnosis. The sub-BN group was the one which showed more social impairment. Regarding treatment outcome, the three groups did not reveal significant differences in remission rates, therapeutic adherence or dropout rates, reaching rates of dropout from 36.8% to 50% ($p = .391$). However, different ED subtype predictors appear related with full remission or dropout risk, specifically personality traits. **Conclusions:** our results suggest that OSFED patients may benefit similarly from the same CBT outpatient group approach. However, high dropout rates and low motivation seems to be an important limitation and challenge for future approaches.

Keywords: Other Specified Feeding or Eating Disorders (OSFED); Purging disorder (PD); Atypical anorexia nervosa (atypical-AN); Subthreshold bulimia nervosa (sub-BN); Treatment outcome; Cognitive-behavioral therapy (CBT)

1. Introduction

Most studies in eating disorders (ED) have mainly focused on anorexia nervosa (AN), bulimia nervosa (BN), and recently on binge eating disorder (BED), neglecting other residual or subthreshold ED such as eating disorder not otherwise specified (EDNOS). Based on the Diagnostic and Statistical Manual of Mental Disorders fourth edition (DSM-IV-TR) [1], EDNOS category was defined as a broad hodgepodge that includes many heterogeneous and not well-defined ED cases (i.e. those who do not fulfill the diagnostic criteria for AN or BN). The update of the DSM-5 [2] reconfigured and renamed EDNOS as other specified feeding or eating disorder (OSFED). OSFED is a formal diagnostic category including heterogeneous nosological entities, such as: atypical anorexia nervosa (atypical-AN), purging disorder (PD), subthreshold bulimia nervosa (Sub-BN), subthreshold binge eating disorder (Sub-BED), and night eating syndrome (NES). These changes into the diagnostic framework of ED aimed to reduce the overrepresentation of cases in this residual category of EDNOS [3–6], as well as it attempts to enhance the study of more homogeneous phenotypes [7].

However, because this nosology is relatively recent, most of the research in this field refers to EDNOS, while OSFED subtypes have barely been studied in the literature so far. Due to the vast majority of diagnoses in clinical practice fall within the atypical/subthreshold ED umbrella [8], this diagnosis has been reported as the most prevalent ED [9–13], but often not less severe and enduring than full syndromes [8,14,15]. Epidemiological studies show that the prevalence of OSFED is about 1.5%, less than half of the prevalence of DSM-IV EDNOS [16]. Regarding the specific OSFED subtypes, some few studies revealed prevalence rates range between 1.1–5.3% for lifetime PD, 2.8–3.6% for atypical-AN, 4.4% for Sub-BN, and 1.5–5.7 % for NES [7,17,18]. Nevertheless, these prevalence data are regarding specific community samples (mainly adolescent populations), and they are not generalizable to other populations such as clinical or adult samples.

Despite the relevance, chronicity and considerable clinical severity of OSFED [16] there is a lack of research analyzing therapy outcomes. The few studies comparing response to treatment between atypical/subthreshold ED and full syndromes found similar patterns of remission and relapse [19–21], but also high dropout rates among the formers [22]. Heterogeneous results among diagnostic subtypes have been described in the literature, with PD patients showing the best prognosis [23], whereas atypical-AN and sub-BN patients not showing differences with the full-threshold EDs [24]. Moreover, although data on diagnostic crossover in EDNOS/OSFED are sparse, available findings suggest that approximately 40% of these patients develop AN or BN later in life [25].

Taking into account all the aforementioned gaps in the literature, mainly contradictory findings and studies where atypical/subthreshold ED represented a negligible portion of the sample, it is not possible to generalize results or define a clear hypothesis about treatment outcome in these clinical populations. Therefore, in the present study we were focusing in the most prevalent OSFED subtypes (namely, atypical-AN, PD, and sub-BN), with the following goals: (a) to examine clinical, motivational, psychopathological, and personality differences among the groups; (b) to explore short-term treatment outcome, therapeutic adherence, and dropout rates; and (c) to identify clinical predictors of therapy outcomes. To our knowledge, this is the first study assessing treatment outcome and dropout rates between well- differentiated OSFED subtypes following outpatient cognitive- behavioral therapy (CBT), which may contribute to advancements in the debate about whether these diagnostic subtypes would benefit equally from a joint CBT treatment. Also, the findings derived from the study might improve our ability to identify and better understand OSFED subtypes and thereby aid in tailoring the best treatment alternatives.

2. Methods

2.1. Ethics approval

The present study was approved by the Ethics Committee of the University Hospital of Bellvitge and all the participants provided signed informed consent.

2.2. Participants

The initial sample consisted of 201 patients with OSFED, consecutively admitted for treatment at the Eating Disorders Unit of the Bellvitge University Hospital. Of those, were excluded: 8 men (3.9%), 9 females with subthreshold BED (4.5%), and 8 females with unspecified feeding and eating disorders (UFED) (3.9%) because the number was too small for meaningful comparisons. Therefore, the final sample comprised 176 female patients diagnosed with OSFED (82 atypical-AN, 57 PD, and 37 sub-BN). All patients admitted before May of 2013 were originally diagnosed using the DSM-IV-TR [1]. Diagnoses were made by means of a face-to-face semi- structured clinical interview, based on the SCID-I [26], and conducted by experienced clinical psychologists and psychiatrists. Diagnoses were reanalyzed post hoc using DSM-5 criteria [2].

Exclusion criteria were: (a) patients aged <18 years old; (b) patients presented with severe comorbid psychopathological symptoms (e.g. risk of suicidal attempt or psychotic/bipolar disorders) requiring individual therapy and/or inpatient therapy.

2.3. Assessment

- Eating disorders inventory-2 questionnaire (EDI-2) [27] (Spanish validation [28]) to assess behavioral and psychological dimensions of the ED. The internal consistency for the current sample was excellent ($\alpha = .94$).

- Symptom Checklist-90-Revised (SCL-90-R) [29] (Spanish validation [30]). This questionnaire was designed to assess psychopathological distress. The internal consistency of our sample was excellent ($\alpha = .97$).

- Temperament and Character Inventory-Revised (TCI-R) [31] (Spanish validation [32]). This questionnaire consists of 240 items that measure temperament and character dimensions. Cronbach's alpha for the current sample was good for "novelty seeking" ($\alpha = .78$) to excellent ($\alpha = .90$) for "harm avoidance".

- Motivational stage. The motivational stage of change was assessed through five visual analogue scales named: subjective desire for treatment, need of treatment; impairment, Worry [Self], and Worry [Family]. The scales ranged from 0 to 8, with 8 being the maximum score indicating worry and motivation for change. The scale has been previously described and applied in ED patients [33].

Additional information such as sociodemographic variables, impulsive behaviours, and other relevant clinical variables were assessed by means of a face-to-face semi-structured clinical interview [34].

2.4. Treatment

The National Institute for Health and Care Excellence (NICE guideline Published: 23 May 2017 nice.org.uk/guidance/ng69) recommends implementing the first-line treatment for the most closely resembling ED, being the cognitive behavioural therapy- Enhanced (CBT-E) the recommended treatment for adult patients with EDs.

Treatment for OSFED consisted of 16 weekly outpatient group therapy conducted by experienced psychologist. All patients were treated in the same set of therapy group. Despite the distinct OSFED subtypes present heterogeneous clinical and symptomatological features, the treatment addresses the core characteristics that are common in the full spectrum of ED, such as training in problem solving strategies, cognitive restructuring, emotion regulation, improving self-esteem and body image, and relapse prevention strategies. In addition, therapy aimed to address eating-related symptomatology, introducing eating monitoring, regular nutritional patterns and increasing knowledge about negative consequences of the disorder. The treatment protocol was manualized and published in Spanish [34].

Patients were re-evaluated at discharge and categorized into the following three categories: full remission, partial remission, and non-remission. According to DSM-5 criteria [2], the working definition of full remission was a total absence of symptoms meeting diagnostic criteria for at least 4 consecutive weeks, partial remission was defined as substantial symptomatic improvement but with residual symptoms, and the patients who presented poor outcomes were defined as non-remission. These categories were previously used to assess treatment outcome in threshold ED in other published studies [35–37]. Voluntary treatment discontinuation was categorized as dropout (i.e. not attending treatment for at least three consecutive sessions).

2.5. Statistical analysis

Analyses were carried out with Stata15 for Windows. First, the comparison between the diagnostic subtypes was based on chi-square tests (2) for categorical variables and in analysis of variance (ANOVA) for quantitative measures. Effect size was estimated through the Cohen's-d coefficient, considering moderate effect size for $|d| > 0.50$ and high effect size for $|d| > 0.80$ [38]. To avoid increase in Type-I error due to multiple statistical comparison, Finner's procedure was employed [39], a method included into the Familywise error rate stepwise procedures, and offers more powerful test than the classical Bonferroni correction.

Kaplan-Meier functions estimated the cumulative survival for the time to dropout. This method, also known as the product-limit- estimator, is a non-parametric procedure to estimate the survival function from “lifetime data”, and in the area of the Health Sciences it is often used to measure the proportion of patient “living” (surviving) for an amount of time after one event. In this study, the Kaplan-Meier estimator measured the length of time that patients remain participant (without dropout). Overall comparison of cumulate survival functions between the three diagnostic groups was done with the Log-Rank, Breslow and Tarone-Ware tests.

Finally, logistic regressions generated predictive models of the main therapy outcomes of the study: the risk of dropout and the risk of good therapy outcome (partial or full remission). Stepwise procedure was used to automatically select the variables with most predictive capacity, and the models were generated separately/ stratified for each diagnostic condition. The goodness-of-fit for the final models were valued with the Hosmer-Lemeshow test (adequate fitting was considered for $p > 0.05$), the overall predictive capacity with the Nagelkerke’s pseudo-R² coefficient and the discriminative capacity to differentiate between the groups with the area under the ROC curve.

3. Results

3.1. Characteristics of the sample

Table 1 contains the descriptive for the sociodemographics in the sample of the study, and the comparison between the diagnostic subtypes. Many participants were single (77.3%), with primary (33.5%) or secondary (46.0%) studies, and employed or studying (71.0%). No statistical differences between groups were found.

3.2. Comparison of the clinical profile at baseline between the diagnostic groups

Table 2 contains the comparison between the groups for the categorical clinical variables of the study. For the whole sample, the prevalence of childhood obesity was 13.1%. The 12.5% of the participants reported lifetime overweight. Non-suicidal self-harm behaviors were present in 30.7% of the sample, suicidal ideation in 40.9%, and suicidal attempts in 11.9%. In relation to the use/abuse of substances: 36.4% indicated tobacco use, 6.8% alcohol use-abuse, and 16.5% recognize to consume other illegal drugs. No differences between the groups were obtained for this set of variables.

Table 3 contains the comparison between the groups for the quantitative clinical variables. Age of onset and duration of the disorder differed between the groups, being the PD subtype who has the latest age of onset, and the sub-BN the group with the longest duration of the disorder. Body mass index (BMI) measures also differed among the groups, being the atypical-AN phenotype the group with the lowest mean values, followed by the PD phenotype and lastly the sub-BN group. For the motivational scales, differences only emerged for the social impairment of daily tasks variable, which mean score was the highest for the sub-BN subtype. As expected, the frequency of vomits and laxatives achieved the highest mean in the PD group, followed by the sub-BN and the atypical-AN. Regarding EDI-2 scales, as a whole the highest means were obtained for the sub-BN, followed by the PD group and the atypical-AN. No statistical differences were found comparing the mean scores for the SCL-90R scales, and the only difference for the TCI-R scales was obtained for the persistence dimension (the highest mean was shown in the PD group, while no statistical difference emerged comparing atypical-AN and sub-BN).

3.3. Comparison of the therapy outcome between the diagnostic groups

The first part of Table 4 contains the comparison of the therapy outcome group (dropout, non-remission, partial-remission and full remission) between the three diagnostic conditions, and the second part of Table 4 the comparison for the number of attended sessions. Dropouts ranged between 36.8% and 50% among the groups. No statistical difference emerged comparing the three diagnostic subtypes. From those OSFED

patients who completed treatment ($n = 99$; 56.6%), the 72.7% ($n = 72$) of the patients obtained good outcome (46.5% partial remission and 26.3% full remission) whereas the 27.3% of the completers presented non-remission.

The Fig. 1 includes the cumulative survival functions (Kaplan-Meier estimation) for the time to the dropout of the study. As a whole, the highest risk of dropout and the highest rate was observed in the atypical-AN, nearly followed the other two diagnostic subtypes. Overall comparisons did not achieve statistical differences ($p > 0.05$ for the Log-Rank, Breslow and Tarone-Ware tests). The dropouts were constantly distributed along the whole therapy sessions.

3.4. Predictive models of the therapy outcomes

Table 5 contains the final models with the variables with the best predictive capacity on the therapy outcomes dropout and partial-full remission. The list of potential predictors included EDI-2 total score, SCL-90R total score, personality profile measured through the TCI-R scales, chronological age, age at onset of the ED, duration of the disorder, BMI, motivational scales and frequency of binges-laxatives-vomits. The risk of dropout was increased differentially among the OSFED groups: (a) for atypical-AN by high frequency of binges-per-week, high scores in the novelty seeking trait, low levels in the self-transcendence trait and low self-concern about the ED (Worry [Self]); (b) for PD by low scores in the personality traits of harm avoidance, reward dependence and self-directedness; and (c) for sub-BN by high frequency of laxatives-per-week.

Furthermore, the likelihood of partial-or-full remission was also increased differentially among the OSFED groups: (a) for atypical-AN by low scores in the novelty seeking personality trait and high perceived need of treatment; (b) for PD by high scores in the personality scales of harm avoidance, persistence and self-directedness, and low Worry [Self]; and (c) for sub-BN by low frequency of laxatives-per-week, high levels in the self-transcendence personality trait and low intensity perceived of the ED.

4. Discussion

The present study attempted to address an important gap in the literature, analyzing and comparing clinical and therapeutic features between different OSFED subtypes and, therefore, obtaining a better understanding of these ED. Moreover, since a good diagnostic categorization requires information regarding treatment outcome, the present study also aimed to analyze response to treatment, therapeutic adherence and predictors of therapy outcome among the different OSFED phenotypes.

The first main objective was to examine clinical differences between the most prevalent OSFED phenotypes. In agreement with other studies [24], our results showed that, overall, the three OSFED groups, besides of their symptomatological heterogeneity, share common eating and general psychopathological symptoms as well as personality traits [17]. With regard to eating-related symptoms, the only meaningful difference was revealed in purging symptomatology, being the PD cases the ones who presented the highest frequency of vomiting and laxatives use. This result is not surprising since a recurrent purging behavior is the core symptom of this diagnostic subtype [2]. Our results are also in line with previous studies which found that purging patients engaged in more frequent laxatives use as compensatory behavior [24,40]. On the other hand, our results showed that the atypical-AN group showed the lowest scores in the EDI-2 bulimia subscale. These results were the expected ones because, unlike the other two diagnoses, atypical-AN patients do not require bulimic/purging behaviours for their diagnosis.

Patients with PD also presented a later age of onset, while sub-BN had significantly longer duration of the illness. These findings are similar to those reported in previous studies [23] indicating that PD is found to be rare before age 18 [41], and most typically first onsets are at approximately 20 years of age [7]. In this regard, previous studies have suggested that unhealthy weight control behaviors, such as purging behaviors, may appear as a mechanism to compensate the decline in physical activity and, therefore, energy

balance dysregulation, which occurs in the late adolescence [17]. On the other hand and not surprisingly, atypical-AN group presented lower BMI lifetime than the others. Although the diagnostic criteria for atypical-AN does not require meeting the low weight of AN [2], these patients present severe weight control strategies (restriction) which may justify these results.

Not surprisingly and consistent with prior literature [33], our results indicated that patients with OSFED report low motivation to change. When comparing the standardized scores of motivation for treatment between our OSFED patients and the full syndrome scores (based on the study of Casanovas et al. [33]), the former showed even lower scores (see supplemental files). In addition, no differences between the three groups were found, with the sole exception of a greater social impairment perceived by the sub-BN group. This result is consistent with previous research stating that binge eaters usually refer increased impairment in the social life and in the leisure activities because the binge-eating behaviors are associated with greater psychiatric comorbidity, distress and functional impairment [42–44].

Regarding treatment outcome, the rates of good remission in our sample ranged from 36.6% to 48.6% among the three phenotypes. These findings support other research which found an average percentage of remission of 40–45% [24]. However, they are not in accordance with others presenting recovery rates of 91% for sub-BN and 95% for PD [41]. These discrepancies are probably due to the fact that the study of Stice et al. [41] analyzed patients diagnosed with EDNOS according to DSM-IV and, therefore, more heterogeneous samples. Also, these authors analyzed adolescents from community samples and not adult ED patients who were seeking treatment, which may contribute to these contradictory results, since the latter probably present more chronic and severe eating pathology. In addition, no differences in remission rates were found between the three. In the same vein, a prior study found similar treatment outcome between the OSFED groups, but also between OSFED groups and ED full syndromes [24].

As regards dropout rates and therapeutic adherence, patients from the three OSFED diagnoses attended roughly the same number of therapy sessions and showed increased rates of dropout (36.8%–50%), which suggests that these patients are less motivated for treatment than full diagnoses of AN or BN, maybe because these patients generally exhibit less severe physical symptoms [45]. However, subthreshold diagnoses are not trivial and they should not be underestimated since they are disorders with severe comorbidity and similar chronicity to full syndromes [46]. Curiously, the survival analysis showed a constant and progressive evolution of the risk of dropout in all three groups. The lack of therapeutic adherence suggests that further research is needed to address the lack of motivation, beliefs about the disorder, perception about the control of the disease itself or awareness of disabilities derived from the disorder [47]. In this sense, Lask and Framptom [48] describe anosognosia associated with ED where the patient fluctuates from having insight into their disorder to moving to denial. This raises new premises about therapeutic targets. Future research should assess and compare

key maintenance factors, such as denial of illness, lack of awareness, anosognosia or impaired insight [49], as well as their association with therapy outcome. This will benefit clinicians to obtain a better conceptual understanding of the processes involved in the treatment of these patients. In this vein, it should be stated that motivational enhancement therapy interventions may be particularly important for those individuals diagnosed with OSFED [50].

Finally, in terms of primary predictors of treatment outcome, our results were similar to those obtained in the literature on full ED syndromes, namely higher dropout and poorer therapy outcome associated to lower motivation and more dysfunctional personality traits. However, we found specific characteristics associated with the prognosis of each diagnostic subtype. First, for Atypical-AN, a higher novelty seeking and lower self-transcendence were associated with increased risk of dropout and less remission rates (although the three OSFED groups showed normative scores in novelty seeking [32]). Also for atypical-AN, a poor motivational stage with low concern for the disorder and lack of perceived need of treatment was related to worse prognosis. Second, for PD, lower scores on some personality traits such as harm avoidance, reward dependence, self-directedness and persistence were related to higher risk of dropout and poor outcome. Although the association between high harm avoidance and better prognosis in PD seems to be a striking

and unexpected finding, it may suggest that patients with anticipatory worry, great sensitivity for criticism and fear of uncertainty [51] are more concerned about their disorder and, therefore, more motivated for treatment [52]. Lastly, for the sub-BN group, high score on self-transcendence was the main predictor of therapy outcome. Unfortunately, we are not able to contrast our findings with previous studies, since no study has assessed the specific predictors of treatment outcome for the different diagnostic types of OSFED so far.

4.1. Limitations and strengths

The present study should be evaluated within the context of its several limitations. First, this study is limited by the lack of other diagnostic types of the wide spectrum of OSFED. It would have been useful to compare all OSFED but, unfortunately, we did not have enough sample size to make meaningful comparisons. Second, we included only adult female patients with ED. Hence, we cannot confirm whether our results are generalizable to adolescent or males with the same diagnosis. Third, not all the patients were naïve. That is, some patients were in a stage of the disorder with residual symptoms after a partial remission of the full-threshold disorders of AN or BN (diagnostic crossover). Hence, further studies assessing separately naïve and diagnostic crossover patients are needed for guaranteeing the homogeneity of the sample. Finally, our findings are mainly about symptomatological remission after the therapy, but not recovery (the term ‘recovery’ requires a long period of abstinence from ED symptomatology). Hence, further longitudinal studies collecting follow-up data are needed to replicate this study in order to assess whether there are differential rates of relapse or recovery.

Notwithstanding these limitations, the current study has also several strengths that should be noted. For the first time we have addressed treatment response across a large sample of adult females with different diagnostic types that fit into OSFED category. As far as we know, this is the first study assessing specific predictors of outcomes in these patients. A better description of the clinical features and treatment outcome of the distinct ED phenotypes, including subthreshold types, would most likely enhance its detection and diagnosis in clinical practice, mitigating diagnostic confusion [7].

4.2. Conclusions

In sum, our findings revealed that the three OSFED subtypes were more similar than distinct in terms of clinical, psychopathological and personality features. Regarding treatment outcome, our findings suggest that OSFED patients, who complete the therapy, may benefit from the same treatment. However, the high dropout rates open the debate and highlight the need to add other therapeutic tools for improving the therapeutic adherence of these patients, for example, family, motivational or insight-based treatments.

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Table 1

Descriptive for the sample.

	Atypical-AN (<i>n</i> = 82)		PD (<i>n</i> = 57)		Sub-BN (<i>n</i> = 37)		χ^2	<i>df</i>	<i>p</i>
	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%			
Origin									
Spanish	77	93.9	53	93.0	36	97.3	0.83	2	.661
Immigrant	5	6.1	4	7.0	1	2.7			
Civil status									
Single	68	82.9	40	70.2	28	75.7	5.94	4	.204
Married-couple	7	8.5	13	22.8	5	13.5			
Divorced	7	8.5	4	7.0	4	10.8			
Education level									
Primary	33	40.2	14	24.6	12	32.4	5.13	4	.274
Secondary	36	43.9	30	52.6	15	40.5			
University	13	15.9	13	22.8	10	27.0			
Employment									
Unemployed	23	28.0	14	24.6	14	37.8	1.99	2	.370
Employed	59	72.0	43	75.4	23	62.2			

Table 2

Clinical comparison for categorical-binary variables.

	Atypical-AN (<i>n</i> = 82)		PD (<i>n</i> = 57)		Sub-BN (<i>n</i> = 37)		$\chi^2_{df=2}$	<i>p</i>
	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%		
Childhood obesity	8	9.8	9	15.8	6	16.2	1.49	.476
Childhood overweight	11	13.4	6	10.5	5	13.5	0.30	.861
Self-harm behavior	27	32.9	17	29.8	10	27.0	0.45	.800
Suicidal attempts	6	7.3	9	15.8	6	16.2	3.12	.211
Suicidal ideation	33	40.2	19	33.3	20	54.1	4.01	.134
Tobacco use	29	35.4	26	45.6	9	24.3	4.46	.107
Alcohol use-abuse	7	8.5	1	1.8	4	10.8	3.61	.164
Drugs use-abuse	12	14.6	7	12.3	10	27.0	3.92	.141

Table 3

Clinical comparisons for quantitative clinical and psychometrical variables: ANOVA.

	AN-atypical (n = 82)		Purging (n = 57)		BN-subthresh. (n = 37)		Factor group		AN vs purging			AN vs BN subth.			Purging vs BN subth.		
	Mean	SD	Mean	SD	Mean	SD	F _(df=173)	p	MD	p	d	MD	p	d	MD	p	d
Age (yrs-old)	25.23	7.64	27.39	8.98	27.35	8.15	1.49	.227	-2.15	.129	0.26	-2.12	.193	0.27	0.03	.984	0.00
Onset (yrs-old)	18.00	5.02	21.77	7.75	17.86	5.12	7.64	.001⁺	-3.77	<.001⁺	0.58⁺	0.14	.910	0.03	3.91	.003⁺	0.59⁺
Duration (yrs)	6.79	6.18	5.38	5.52	8.81	7.77	3.29	.040⁺	1.42	.197	0.24	-2.02	.111	0.29	-3.44	.011⁺	0.51⁺
BMI: maximum	23.61	3.44	26.21	4.92	27.83	5.26	13.52	<.001⁺	-2.60	.001⁺	0.61⁺	-4.22	<.001⁺	0.95⁺	-1.61	.083	0.32
BMI: minimum	17.98	1.71	19.41	1.99	19.93	2.06	17.42	<.001⁺	-1.43	<.001⁺	0.77⁺	-1.95	<.001⁺	1.03⁺	-0.52	.192	0.26
BMI: baseline	19.74	1.43	21.80	3.61	23.75	3.76	26.80	<.001⁺	-2.05	<.001⁺	0.75⁺	-4.01	<.001⁺	1.41⁺	-1.96	.001⁺	0.53⁺
ED: intensity	4.77	1.66	5.05	1.89	5.08	2.24	0.55	.578	-0.28	.379	0.16	-0.31	.399	0.16	-0.03	.943	0.01
ED: therapy need	5.23	2.33	5.72	1.91	5.89	2.00	1.56	.213	-0.49	.186	0.23	-0.66	.120	0.30	-0.17	.702	0.09
ED: social distress	4.66	2.30	4.88	2.01	5.70	1.81	3.16	.045⁺	-0.22	.549	0.10	-1.04	.014⁺	0.50⁺	-0.83	.066	0.43
ED: troubles	5.40	2.14	6.00	1.94	6.14	2.06	2.23	.110	-0.60	.094	0.29	-0.73	.074	0.35	-0.14	.756	0.07
ED: family trouble	6.71	1.82	6.84	1.63	5.97	2.34	2.65	.073	-0.13	.679	0.08	0.73	.051	0.35	0.87	.055	0.43
# previous treat.	0.68	0.95	0.33	0.55	0.49	0.77	3.25	.041⁺	0.35	.013⁺	0.45	0.20	.219	0.23	-0.15	.368	0.23
Binges	0.52	1.22	0.76	1.87	0.19	0.26	1.97	.142	-0.24	.297	0.16	0.33	.230	0.37	0.57	.049⁺	0.43
Vomits	0.91	2.73	6.23	6.20	2.37	4.48	24.00	<.001⁺	-5.31	<.001⁺	1.11⁺	-1.45	.104	0.39	3.86	<.001⁺	0.71⁺
Laxatives	0.85	3.66	4.39	12.20	1.19	3.63	3.98	.020⁺	-3.53	.007⁺	0.39	-0.34	.823	0.09	3.20	.047⁺	0.36
<i>EDI-2 scales</i>																	
Drive for thinness	14.60	5.61	16.56	4.74	16.38	4.66	2.97	.049⁺	-1.96	.028⁺	0.38	-1.78	.083	0.35	0.18	.867	0.04
Body dissatisf.	15.00	7.96	18.32	7.78	18.57	7.55	4.19	.017⁺	-3.32	.015⁺	0.42	-3.57	.022⁺	0.46	-0.25	.879	0.03
Interoccp. awaren.	9.78	6.24	12.54	6.16	12.73	7.91	4.05	.019⁺	-2.76	.016⁺	0.45	-2.95	.025⁺	0.41	-0.19	.894	0.03
Bulimia	2.85	2.71	5.98	5.14	8.16	5.20	22.79	<.001⁺	-3.13	<.001⁺	0.76⁺	-5.31	<.001⁺	1.28⁺	-2.18	.015⁺	0.42
Interpers. distrust	4.67	4.90	6.67	4.73	5.16	4.96	2.91	.048⁺	-2.00	.018⁺	0.41	-0.49	.610	0.10	1.50	.144	0.31
Ineffectiveness	10.34	6.96	9.98	6.04	11.49	8.39	0.54	.583	0.36	.767	0.06	-1.15	.411	0.15	-1.50	.311	0.21
Maturity fears	8.39	6.18	7.44	5.55	7.22	5.14	0.73	.485	0.95	.341	0.16	1.17	.306	0.21	0.22	.855	0.04
Perfectionism	5.06	3.70	6.25	4.09	5.59	4.27	1.51	.223	-1.18	.084	0.30	-0.53	.496	0.13	0.65	.436	0.16
Impulse regulation	6.24	5.73	6.02	4.84	7.49	6.89	0.82	.442	0.23	.819	0.04	-1.24	.275	0.20	-1.47	.226	0.25
Ascetic	6.48	3.83	7.23	3.94	7.97	4.00	1.98	.141	-0.75	.265	0.19	-1.50	.054	0.38	-0.74	.367	0.19
Social insecurity	6.88	4.43	7.42	4.26	7.59	5.66	0.39	.676	-0.54	.500	0.12	-0.72	.439	0.14	-0.17	.860	0.03
Total score	90.37	38.75	104.40	35.98	108.35	47.10	3.47	.033⁺	-14.04	.042⁺	0.38	-17.99	.024⁺	0.42	-3.95	.639	0.09
<i>SCL-90R scales</i>																	
Somatization	1.63	0.85	1.94	0.85	1.70	1.05	2.12	.123	-0.31	.055	0.37	-0.07	.674	0.08	0.24	.207	0.25
Obsess./compul.	1.76	0.78	1.80	0.81	1.85	0.87	0.19	.825	-0.04	.768	0.05	-0.10	.539	0.12	-0.06	.737	0.07
Interper. sensit.	1.97	0.87	2.03	0.72	2.13	0.97	0.46	.633	-0.06	.675	0.08	-0.16	.341	0.17	-0.10	.581	0.12
Depressive	2.11	0.85	2.22	0.72	2.22	0.99	0.44	.643	-0.12	.409	0.15	-0.12	.477	0.13	0.00	.995	0.00
Anxiety	1.65	0.85	1.77	0.88	1.62	0.96	0.40	.674	-0.11	.452	0.13	0.03	.864	0.03	0.15	.438	0.16
Hostility	1.37	0.97	1.42	0.94	1.37	1.06	0.05	.951	-0.05	.767	0.05	0.00	.995	0.00	0.05	.813	0.05
Phobic anxiety	0.92	0.77	1.00	0.88	1.25	1.00	1.92	.149	-0.08	.587	0.10	-0.33	.052	0.37	-0.25	.167	0.27
Paranoid Ideation	1.37	0.78	1.51	0.71	1.48	0.87	0.53	.587	-0.13	.330	0.18	-0.10	.507	0.12	0.03	.862	0.04
Psychotic	1.32	0.72	1.29	0.74	1.26	0.85	0.09	.912	0.03	.801	0.04	0.06	.679	0.08	0.03	.854	0.04
GSI score	1.65	0.69	1.76	0.64	1.74	0.82	0.53	.592	-0.12	.339	0.17	-0.10	.497	0.13	0.02	.885	0.03
PST score	64.33	16.87	66.91	14.98	62.62	18.46	0.81	.447	-2.58	.369	0.16	1.71	.605	0.10	4.29	.223	0.26
PSDI score	2.23	0.53	2.33	0.50	2.40	0.59	1.47	.233	-0.10	.295	0.19	-0.17	.103	0.31	-0.08	.497	0.14
<i>TCI-R scales</i>																	
Novelty seeking	99.15	14.29	103.0	17.31	102.1	15.44	1.17	.313	-3.91	.147	0.25	-2.96	.338	0.20	0.94	.774	0.06
Harm avoidance	119.1	20.83	116.3	19.57	117.2	21.82	0.33	.720	2.81	.432	0.14	1.88	.646	0.09	-0.93	.832	0.04
Reward depend.	104.5	14.72	100.3	18.21	104.9	16.12	1.39	.252	4.21	.134	0.25	-0.41	.899	0.03	-4.62	.179	0.27
Persistence	109.3	19.01	116.2	22.01	108.5	18.92	2.49	.050⁺	-6.90	.047⁺	0.34	0.83	.835	0.04	7.73	.048⁺	0.38
Self-directedn.	121.4	21.28	119.2	20.21	120.1	22.42	0.19	.829	2.21	.545	0.11	1.26	.765	0.06	-0.96	.830	0.04
Cooperativ.	133.7	17.20	136.3	16.70	135.9	20.45	0.41	.664	-2.57	.404	0.15	-2.19	.535	0.12	0.38	.920	0.02
Self-Transcen.	62.28	14.95	60.67	11.95	65.05	18.48	0.97	.380	1.61	.531	0.12	-2.77	.349	0.16	-4.39	.165	0.28

Table 4

Comparison of therapy outcome.

	Atypical-AN (n = 82)		PD (n = 57)		Sub-BN (n = 37)		χ^2	df	p
	n	%	n	%	n	%			
Dropout	41	50.0	21	36.8	15	40.5	6.30	6	.391
Non-remission	11	13.4	12	21.1	4	10.8			
Partial-remission	22	26.8	14	24.6	10	27.0			
Full remission	8	9.8	10	17.5	8	21.6			
	Mean	SD	Mean	SD	Mean	SD	Wald	df	p
^a Attended sessions	9.11	5.2	9.95	4.6	9.76	5.5	0.26	2	.877

Table 5
Predictive models of the therapy outcomes dropout and remission: stepwise logistic regression.

Outcome: dropout					Outcome: partial or full remission				
Atypical-AN	B	SE	p	OR	Atypical-AN	B	SE	p	OR
Frequency of binges	0.390	0.233	.046	1.48	TCI-R: novelty seeking	−0.044	0.019	.021	0.96
TCI-R: novelty seeking	0.064	0.021	.001	1.07	Need of treatment	0.279	0.120	.020	1.32
TCI-R: self-transcendence	−0.037	0.019	.039	0.96	Constant	2.253	1.983		
Worry (Self)	−0.205	0.123	.048	0.81	Fitting: HL test, R ² , AUC	.519	.208	.733	
Constant	−3.186	2.112							
Fitting: HL test, R ² , AUC	.065	.273	.795						
Purging disorder	B	SE	p	OR	Purging disorder	B	SE	Wald	OR
TCI-R: harm avoidance	−0.079	0.024	.001	.92	TCI-R: harm avoidance	0.080	0.026	.002	1.08
TCI-R: reward dependence	−0.049	0.022	.025	.95	TCI-R: persistence	0.033	0.017	.048	1.03
TCI-R: self-directedness	−0.042	0.020	.035	.96	TCI-R: self-directedness	0.048	0.020	.017	1.05
Constant	18.279	5.428			Worry (Self)	−0.493	0.199	.013	0.61
Fitting: HL test, R ² , AUC	.902	.321	.847		Constant	−16.30	5.154		
					Fitting: HL test, R ² , AUC	.313	.301	.831	
Sub-BN	B	SE	p	OR	Sub-BN	B	SE	Wald	OR
Frequency of laxatives	0.897	0.538	.002	2.45	Frequency laxatives	−0.827	0.547	.131	0.44
Constant	−0.861	0.397			TCI-R: self-transcendence	0.058	0.028	.038	1.06
Fitting: HL test, R ² , AUC	.882	.222	.683		Desire for treatment	−0.369	0.208	.076	0.69
					Constant	−1.472	1.599		
					Fitting: HL test, R ² , AUC	.372	.293	.823	

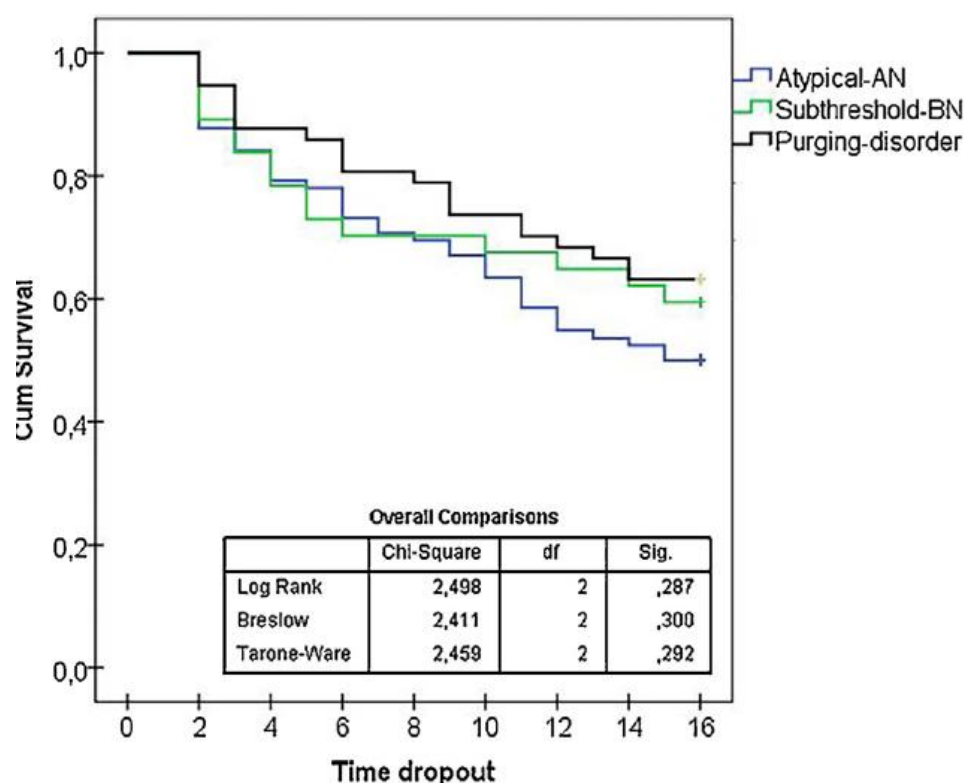


Fig. 1. Cumulative survival function for the time to dropout the therapy.