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# Original Article

# The specific pattern of obsessive-compulsive symptoms in patients with bipolar disorder

# Amir Shabani\*, Arash Alizadeh\*\*

#### **Abstract**

**BACKGROUND:** Some preliminary findings have suggested that patients with bipolar disorder show a disparate pattern of obsessive-compulsive (OC) symptoms. This study aimed to reevaluate this subject on a different sample within a different cultural background.

**METHODS:** The present cross-sectional study was carried out in a clinical non-experimental setting on 78 obsessive-compulsive disorder (OCD) patients; 39 with and 39 without bipolar disorder (BD). Subjects underwent a Structured Clinical Diagnostic Interview for DSM-IV (SCID-I) as well as the Yale-Brown Obsessive-Compulsive Rating Scale (Y-BOCS).

**RESULTS:** The diagnoses in the non-bipolar group were mostly major depressive disorder (38%) and dysthymic disorder (38%). The mean age of the bipolar group was significantly lower than that of the non-bipolars (P<0.05). The mean score of the Y-BOCS was not significantly different between the two groups. The mean estimated number of obsessive themes – but not compulsive ones – in the bipolar group was significantly higher than that of the non-bipolars (P<0.0001). The aggressive (P<0.01), sexual (P<0.0001) and religious (P<0.05) obsessions were significantly more prevalent, and the contamination obsession (P<0.05) was significantly less prevalent in the bipolar group. Also, in the bipolar group the miscellaneous compulsions (P<0.01) were significantly more prevalent, and the washing compulsion (P<0.001) was significantly less prevalent.

**CONCLUSIONS:** The content of OC symptoms which is not traditionally considered a helpful factor for diagnosing a psychiatric disorder might be able to lead the clinician to the diagnosis of bipolarity in a depressed patient with OCD.

**KEY WORDS:** Bipolar disorder, obsessive-compulsive disorder, obsessive-compulsive symptoms.

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In the second half of the twentieth century the literature related to the obsessive-compulsive disorder (OCD) comorbidity was mainly focused on the relationship between OCD and major depressive disorder (MDD). In spite of this, the relationship of OCD and bipolar disorders had been already emphasized by French psychiatrists in the 19th

century <sup>1</sup> and has been demonstrated by different groups of researchers in the recent years. Although three decades ago OCD was being viewed as a rare condition in patients with bipolar disorder <sup>2</sup>, many reports have ascertained considerable comorbidity of OCD in bipolar sufferers <sup>3-9</sup> even more than in patients with MDD. In this regard, for instance, the

<sup>\*</sup>Assistant Professor, Department of Psychiatry, Faculty of Medicine and Mental Health Research Centre, Iran University of Medical Sciences, Tehran, Iran. e-mail: amirshabani@tehranpi.org (Corresponding Author)

<sup>\*\*</sup>Psychiatry Resident, Mental Health Research Centre, Iran University of Medical Sciences, Tehran, Iran.

analysis of the epidemiologic data of the ECA (Epidemiologic Catchment Area) 10 showed the lifetime prevalence of OCD in bipolar disorder patients, unipolar depressive disorder patients, and general population in the USA (1995) is 21%, 12.2%, and 2.5%, respectively. Also, a research on a clinical sample 11 found the frequency of OCD in bipolar and unipolar depressed patients 21.1% and 14.3%, respectively. On the other hand, assessing the reverse state to the aforementioned condition has yielded the significant frequency of individuals with bipolar disorders (especially type II) among cases with OCD too 12-14. The relationship of OCD and bipolar disorders has been discussed regarding different aspects; e.g., induction of (hypo)mania following antidepressant drugs administration in patients with OCD 15-18, the outcome of OCD in cyclothymic patients as more severe symptoms, higher rate of relapse of mood episodes, attempted suicide, and hospitalization, and also episodic course of OCD in bipolar disorder patients 1,19, different severity or frequency of obsession-compulsion between manic and depressive episodes of bipolar disorder 20-22, different rates of comorbidity with OCD between bipolar type I and type II disorders 13,14,23, more comorbidity with OCD in patients with mixed mania than with pure mania <sup>24</sup>, and the efficacy of mood stabilizers to treat OCD in bipolar disorder patients 25. One of the interesting subjects regarding the relationship between OCD and bipolar disorder is the disparate pattern of obsessive-compulsive (OC) symptoms in patients with bipolar disorder. Perugi et al 13 assessed the pattern of OC symptoms in 315 depressed outpatients with OCD, and found that bipolar disorder cases have sexual and religious obsessions more, and ordering compulsions less than nonbipolar individuals. In another similar study <sup>26</sup>, the same group replicated the results. Also, based on a 3-year-follow up of 68 OCD individuals in a major depressive episode (MDE), Perugi et al <sup>27</sup> reported that sexual obsessions are more frequent and ordering compulsions are less frequent than in unipolar patients. Therefore, bipolar-OCD patients seem to have

a disparate pattern of OC symptoms in comparison with other patients with OCD. However, it should be noted that the above findings are still preliminary and need to be replicated by other researchers in different settings and especially in different cultures considering the content of OC symptoms would be affected by factors such as culture, religion, and locality <sup>28</sup>. This study aimed to reassess this subject on a clinical sample of Iranian patients.

#### Methods

This study was approved by the Research Committee of the department of psychiatry, medical school, Iran University of Medical Sciences, Tehran, Iran. This was a cross-sectional study, which was carried out on outpatients and inpatients referred to two university affiliated hospitals, Iran Hospital of Psychiatry and Rasoul Akram Medical Center, Tehran, Iran. Patients referred to the mentioned centers between October 2006 and March 2007 and diagnosed having current OCD by a psychiatrist, were assessed by a trained psychiatry resident (A. A.). He assessed the inclusion and exclusion criteria for the study, registered the demographic data, and interviewed with patients through the Structured Clinical Interview for DSM-IV (SCID-I, Clinician Version) <sup>29</sup>. The Persian translation, back translation, and feasibility, reliability, and validity study had been conducted by Sharifi et al 30. Inclusion criteria included: 1- aged 18-65, 2- being Persian speaking, 3- confirmation of current OCD diagnosis according to the clinical interview, and 4- giving informed consent to participate in the study. Exclusion criteria included: 1- a severe disorder either in terms of behavior, communication or language that made the interview almost impossible (e.g., mental retardation, dementia, irritability, and agitation), 2- current psychosis, 3- "poor insight" of OCD based on the clinical interview, 4- history of tic disorder (because of the association of this disorder and the specific OC symptoms 31, which could make a bias in the results), 5- the existence of three psychiatric comorbidity (i.e., the probands must have OCD and only one or no

other psychiatric disorder), 6- being in a mood episode (current diagnosis of a mood episode) according to the clinical interview (i.e., the inpatient probands were not admitted because of a mood episode), and 7- lifetime diagnosis of substance abuse disorders (with the exception of nicotine and caffeine). Therefore, the patients were included in two groups: 1- individuals with current OCD and a lifetime diagnosis of bipolar disorder (bipolar-OCD), and 2individuals with current OCD without a history of bipolar disorder (non-bipolar-OCD). The sampling was in convenience method and was continued until provided the same number of cases in the two groups. All participants were also administered the Yale-Brown Obsessive-Compulsive Rating Scale (Y-BOCS) and its symptoms checklist 32,33 through a clinical interview. This scale is widely used and has good validity and reliability 32,33. Also, its testretest reliability (0.84) and convergent validity with the Maudsley Obsessive-Compulsive Inventory (0.78) have been assessed on Iranian population 34. Therefore, patients were assessed for the severity of OC symptoms and the types of the symptoms were registered. Data were analyzed with the Statistical

Package for the Social Sciences (SPSS for Windows 12.0). Baseline group differences were evaluated using independent samples t-tests for continuous variables and chi-square tests for categorical variables. The logistic regression analyses were used appropriately.

#### **Results**

# Sample characteristics

All patients completed the study, with no drop-out. Thirty nine patients with bipolar-OCD and 39 patients with non-bipolar-OCD were entered into the study. The mean age of the first group was 26.6 (SD: 7.23), and of the second group was 30.1 (SD: 6.52); there was a significant difference between them (t = 2.20, df = 76, p = 0.03). Other demographic and clinical information are presented in table 1. Of 39 patients with bipolar-OCD, 16 (41%) had bipolar I disorder (BID) and 23 (59%) had bipolar II disorder (BIID). The types of comorbidity in the non-bipolar-OCD group comprised of MDD (38.2%), dysthymic disorder (38.2%), panic disorder (7.7%), generalized anxiety disorder (5.1%), and social phobia (5.1%); 5.1% of the individuals had no psychiatric comorbid-

**Table 1.** Demographic and clinical information of the probands.

Variables	bipolar-OCD (n=39)	non-bipolar-OCD (n=39)	p-value	
Female	30(76.9%)	33 (84.6%)	0.389	
Marital status			< 0.0001	
Single	27 (69.2%)	13 (33.3%)		
Married	9 (23.1%)	26 (66.7%)		
Widow	3 (7.7%)	0 (0%)		
Employment			0.784	
Employed	9 (23.1%)	8 (20.5%)		
Unemployed	30 (76.9%)	31 (79.5%)		
Outpatient	31 (79.4%)	26 (66.7%)	0.202	

# The findings of the obsessive-compulsive scale

The mean score of the Yale-Brown Obsessive-Compulsive Rating Scale was  $28.53 \pm 5.09$  in the bipolar-OCD, and  $28.25 \pm 6.79$  in the non-bipolar-OCD individuals, respectively. The two groups had no significant difference. The

mean ( $\pm$  SD) estimated numbers of obsessive themes in the bipolar and the non-bipolar groups were 3.17 ( $\pm$  1.53) and 1.92 ( $\pm$  0.66), respectively (t = 0.3, df = 4.7, P<0.0001). The mean ( $\pm$  SD) estimated numbers of compulsive themes were 2.38 ( $\pm$  1.54) in the bipolar group, and 2.64 ( $\pm$  1.53) in the non-bipolar group, re-

spectively. Comparing the numbers of compulsive themes did not show any significant difference at P<0.05 level. Table 2 displays the types of OC symptoms in the bipolar and non-bipolar groups. The aggressive, sexual and religious obsessions were significantly more prevalent, and the contamination obsession was significantly less prevalent in the bipolar group. Also, the miscellaneous compulsions were significantly more prevalent, and the

washing compulsion was significantly less prevalent in the bipolar group in comparison with the non-bipolar group. Given that age and marital status of the two groups had statistical significant difference, the logistic regression was used to evaluate the effect of two mentioned factors on the OC symptoms differences between the two groups. However, there was not any significant effect of age and marital status.

**Table 2.** The types of obsessive-compulsive (OC) symptoms in the bipolar and non-bipolar groups.

Types of OC symptoms	bipolar-OCD (n=39)	non-bipolar-OCD (n=39)	χ2	df	p-value
Obsessions					
Aggressive	14 (35.9%)	3 (7.7%)	9.01	1	0.005
Contamination	25 (64.1%)	33 (84.6)	4.3	1	0.03
Sexual	34 (87.2%)	0 (0%)	60.27	1	0.0001
Hoarding	6 (15.4%)	7 (17.9%)	0.09	1	0.76
Religious	15 (38.5)	6 (15.4%)	5.27	1	0.04
Symmetry	13 (33.3%)	17 (43.6%)	0.86	1	0.35
Somatic	5 (12.8%)	4 (10.3%)	0.12	1	1
Miscellaneous	12 (30.8%)	5 (12.8%)	3.68	1	0.055
Compulsions					
Washing	19 (48.7%)	33 (84.6%)	11.3	1	0.001
Checking	18 (46.2%)	24 (61.5%)	1.85	1	0.17
Rituals	9 (23.1%)	9 (23.1%)	0.0001	1	1
Counting	5 (12.8%)	4 (10.3%)	0.12	1	1
Ordering	16 (41%)	16 (41%)	0.0001	1	1
Hoarding	5 (12.8%)	7 (17.9%)	0.39	1	0.54
Miscellaneous	21 (53.8%)	10 (25.6%)	6.47	1	0.01

### **Discussion**

Following the previous findings about existing a disparate pattern of OC symptoms in patients with bipolar-OCD, the present study focused on this subject to reevaluate it on a different sample with a different culture; especially considering this fact that the replications of the preliminary findings have been carried out by the same primary researchers. Therefore, this study explored the OC symptoms pattern and compared the symptoms pattern and the number of OC themes in bipolar- and non-bipolar-OCD patients. However, some features discriminate the present study from the other ones; excluding the cases of current psychosis, historical tic disorders, poor insight, more than one comorbid disorder with OCD,

and being in a mood episode created a more pure sample with less confounder factors. Perugi et al <sup>13</sup> studied 315 depressed outpatients with OCD and found that patients with bipolar-OCD have a significantly higher rates of sexual and religious obsessions, and a significantly lower rate of checking rituals. The same researchers <sup>27</sup> during a 3-year-follow-up of 68 patients with comorbid DSM-IV diagnoses of OCD and major depressive episode admitted and treated at a day-hospital, demonstrated that there are a significantly higher rate of sexual obsessions and a significantly lower rate of ordering rituals in bipolar-OCD patients. Our findings about overcoming sexual and religious obsessions in bipolar disorder patients, replicate the previous data 13,27. A study on

adolescents by Masi et al 35 showed that the mean number of obsessive themes in the patients bipolar-OCD suffering from significantly higher than that in the pure OCD patients. The present study also demonstrated the latter finding but statistically significant. The other finding of the Masi et al study was to be lower of the mean number of compulsive themes significantly in the patients with bipolar-OCD than that in the pure OCD individuals. This result was not replicated at the present study, although the mean number of compulsive themes was still a little and nonsignificantly less in the bipolar group. The study reinforces the previous findings aforementioned at two above paragraphs. It should be noted that some transcultural differences regarding OC symptoms have been reported <sup>36,37</sup>, but the present findings do not show an obvious difference from the western researches. However, there are some diversity among the findings of the studies; for example, higher frequency of aggressive obsession and lower frequency of contamination obsession and washing compulsion were seen in bipolar group only based on the present study, while the lower rate of ordering 27 and checking 13 compulsions in the bipolar disorder patients have been reported in the past. It is interesting that although some differences among the findings of various studies are observed, there is almost no contradictory data. It is also true in the matter of the results of comparing the mean number of obsessive and compulsive themes between bipolar and non-bipolar disorder patients in two studies (see above). Given the overall consistency in results, it seems that the little variability in findings could at least partially be attributed to the low sample size. However, the low sample size is an important limitation for external validity of this study. We here submit the idea that the content of OC symptoms, which is not traditionally considered a helpful factor for diagnosing a psychiatric disorder might be able to lead the clinician to the diagnosis of bipolarity in a depressed patient with OCD. In other

word, as to a client with MDE and OCD with sexual, religious, and maybe aggressive obsessions in association with several different obsessions at the same time, the clinician should keep in mind the probability of having a patient with bipolar disorder. There is mounting clinical evidence that some clinical and individual characteristics may predict the change of diagnosis from MDD to BD 38-40. However, clinical findings that could be used as new predictors of bipolar spectrum disorders could be helpful for future investigations. The present finding that suggests a new probable predictor of bipolar spectrum disorder must be considered preliminary because of some methodological limitations and need to be replicated in a longitudinal study and on larger samples especially through random sampling. Another limitation in this study was that only respondents were interviewed and not their relatives. Therefore, underestimating (hypo)manic symptoms during the clinical interview might have occurred, because these symptoms often are experienced as normal by the patient, but the family members may provide more relevant information. However, the interviews in this study (SCID) were carried out according to Benazzi and Akiskal advice 41 to increase the chance of detecting patients with bipolar disorder. According to this advice, if the patient answered to the screening question about past (hypo)manic episodes as negative, the clinician must have always questioned about all the other DSM-IV non-mood (hypo)manic symptoms. Also, the clinician could use the past information of the patients on the hospital notes during the interview. Our final suggestion is the repetition of the study on the general population. Such a study could include broader spectrum of patients - including milder cases, patients with less supportive care givers, and so on - and could increase external validity of the present findings.

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