Comorbid bipolar disorder and OCD

Heredity in comorbid bipolar disorder and obsessive-compulsive disorder patients

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Summary: Partly due to the overlap of symptom groupings in DSM, psychiatric comorbidity is extremely common. One of the most common and difficult to manage comorbid conditions is the co-occurrence of bipolar disorder (BD) and obsessive compulsive disorder (OCD). However, the key nosological question about this condition – whether they are two distinct disorders or a subtype of one of the disorders – remains unresolved. In order to help address this unanswered question, we updated our recent systematic review, searching the electronic databases MEDLINE, Embase, and PsycINFO to specifically investigate the heredity in BD-OCD patients. We identified a total of 8 relevant papers, the majority of which found that, compared to non-BD-OCD patients, BD-OCD patients were more likely to have a family history for mood disorders and less likely to have a family history for OCD. These results support the view that the majority of cases of comorbid BD-OCD are, in fact, BD cases. If confirmed in larger, more focused studies, this conclusion would have important nosological and clinical implications.

Keywords: bipolar disorder; obsessive-compulsive; comorbidity; heredity

2. Updated systematic review

Studies published in English through 31 October 2015 were identified by searching MEDLINE, Embase, and PsycINFO. We combined the search strategy of free text terms and exploded MESH headings for the topics of bipolar disorder, obsessive-compulsive disorder, and treatment combined as following:

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(((((((("Bipolar Disorder"[Mesh]) OR Bipolar disorder) OR BD) OR Bipolar) OR Manic depressive disorder) OR Manic depressive) OR Manic)) AND ((("Obsessive-Compulsive Disorder"[Mesh]) OR OCD) OR Obsessive-compulsive) OR Obsessive-compulsive disorder)).
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<table>
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<tr>
<th>Reference</th>
<th>Study design</th>
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<tr>
<td>Angst 2005[7]</td>
<td>Prospective cohort</td>
<td>Switzerland</td>
<td>591 subjects recruited at age 19 or 20 and assessed over 20 years: OCD (n=30), BD (n=93) OCD-BD (n=44)</td>
<td>Broad definition for BD and OCD; DSM-IV</td>
<td>No statistically significant differences in family history for OCD, depression, or mania in OCD patients with or without BD comorbidity</td>
<td>26/31</td>
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<tr>
<td>Berutti 2014[8]</td>
<td>Cross sectional</td>
<td>Brazil</td>
<td>BD (n=488) age&gt;18</td>
<td>SCID; DSM-IV</td>
<td>BD patients with a family history of mood disorders presented with significantly higher lifetime prevalence of OCD</td>
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<td>Koyuncu 2010[9]</td>
<td>Case control</td>
<td>Turkey</td>
<td>BD (n=214) mean age=34.8 (10.3) OCD-BD (n=35) mean age=36.2 (15.9)</td>
<td>SCID; DSM-IV</td>
<td>Higher prevalence of OCD in first-degree relatives of OCD-BD patients versus that in relatives of non-OCD-BD patients (45.7% vs. 5.7%); no statistically significant differences in family history for BD</td>
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<td>Mahasuar 2011[10]</td>
<td>Case control</td>
<td>India</td>
<td>OCD (n=91) mean age=29.4 (8.3), BD-OCD (n=34) mean age=28.4 (7.1)</td>
<td>SCID; DSM-IV</td>
<td>Statistically non-significant trends of higher prevalence of family history for mood disorders in BD-OCD patients and lower prevalence of family history for OCD versus those in non-BD-OCD patients</td>
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<td>Perugi 1998[11]</td>
<td>Case control</td>
<td>Italy</td>
<td>OCD (n=135) mean age=38.4 (13.3)</td>
<td>NS; DSM-III-R</td>
<td>Positive correlation between episodic OCD and family history for mood disorders compared with patients with continuous OCD (54.1% vs. 34.7%)</td>
<td>21/31</td>
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<td>Perugi 2002[12]</td>
<td>Case control</td>
<td>Italy</td>
<td>OCD-MDE (n=68) mean age=34.2 (12.5) BD-OCD (n=38) mean age=35.9 (12.2)</td>
<td>SCID; DSM-IV</td>
<td>Statistically non-significant trends of higher prevalence of family history for mood disorders and lower prevalence of family history for OCD in BD-OCD patients versus those in non-BD-OCD patients</td>
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<td>Shashidhara 2015[13]</td>
<td>Cross sectional</td>
<td>India</td>
<td>BD-I (n=396, age&gt;18)</td>
<td>SCID; DSM-IV</td>
<td>Higher prevalence of family history for mood disorders in BD-OCD patients compared to family history in OCD patients (33.3% vs. 6.7%)</td>
<td>23/31</td>
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<tr>
<td>Zutshi 2007[14]</td>
<td>Case control</td>
<td>India</td>
<td>OCD (n=106) mean age=26.5 (7.4) BD-OCD (n=28) mean age=27.9 (6.7)</td>
<td>SCID; DSM-IV</td>
<td>Compared to non-BD-OCD patients, BD-OCD patients have higher prevalence of family history for mood disorder (36% vs. 6%) and lower prevalence of family history for OCD (0.0% vs. 21%)</td>
<td>20/31</td>
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BD, bipolar disorder
OCD, obsessive-compulsive disorder
MDE, Major Depressive Disorder

DSM, Diagnostic and Statistical Manual of Mental Disorders
SCID, Structured Clinical Interview
NS, Not specified
*Checklist for measuring study quality developed by Downs and Black[6]
The eight studies shown in Table 1 were selected. No studies were found that examined familial transmission of comorbid BD-OCD. Seven studies[7,10,12-14] assessed family history for OCD or BD in comorbid BD-OCD probands using semi-structured or unstructured clinical interviews and clinical records. Five studies[8,10,12-14] reported that compared to non-BD-OCD patients, BD-OCD patients were more likely to have a family history for mood disorders and less likely to have a family history for OCD; one study[9] reported the opposite. The sole population-based study[7] found no statistically significant differences in the prevalence of a family history for OCD, depression, or mania between OCD patients with or without BD comorbidity. In one study,[10] a family history for mood disorders was reported to be more frequent in patients with episodic OCD than in those with continuous or chronic OCD symptoms.

3. Conclusions
Results from this review support the view that the majority of cases of comorbid BD-OCD are, in fact, BD cases. Considering course of illness as a key diagnostic validator, the majority of comorbid OCD cases appeared to be related to mood episodes. OC symptoms in comorbid patients appeared more often – and sometimes exclusively – during depressive episodes, and comorbid BD and OCD cycled together, with OC symptoms often remitting during manic/hypomanic episodes.[3]

From a therapeutic perspective, Osler’s view that medicine should focus on the treatment of diseases, not on the treatment of symptoms, is consistent with the recommended approach for treating comorbid BD-OCD. Mood stabilization should be the first objective in treating apparent BD-OCD patients, not immediate treatment with selective serotonin reuptake inhibitors (SSRIs). In a minority of BD patients with refractory OCD, addition of low doses of antidepressants might also be considered while strictly monitoring emerging symptoms of mania and hypomania.[3]

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Conflict of interest statement
None of the authors have any of conflict of interest related to this manuscript.

Authors’ contributions
Authors AA, MT, AO, and BS designed the study and wrote the protocol. Studies were identified and independently reviewed for eligibility by two authors (AA, AO) in a two-step based process. Data were extracted by one author (AA) and supervised by a second author (SNG) using an ad-hoc developed data extraction spreadsheet. The same authors who performed data extraction (AA, SNG) independently assessed the quality of selected studies using the checklist developed by Downs and Black both for randomized and non-randomized studies. AA, MT, AO, and BS have been involved in drafting the manuscript and SNG revised it critically. SNG has given final approval of the version to be published. All authors read and approved the final manuscript.

References


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