Treatment of bipolar mania with obsessive symptoms with clozapine: a case report
Shubhangi Parkar, Chetali Dhuri, Rueeta Athalye

Summary
Obsessive compulsive disorder (OCD) and bipolar disorder can be comorbid, although the exact pathogenesis of obsessive compulsive symptoms (OCS) in bipolar disorder is not clear. Bipolar disorder and OCD can co-occur either due to independent aetiologies or due to the hyposerotonergic state caused by treatment with atypical antipsychotics leading to emergence of OCS. Clozapine, an atypical antipsychotic has been repeatedly implicated in de novo emergence or exacerbation of OCS. In this case report, we describe an elderly man with bipolar disorder currently manic and OCS who was successfully treated with clozapine.

Introduction
Obsessive compulsive disorder (OCD) has a complex relationship with bipolar disorder. The Epidemiologic Catchment Area study (1984) reported that bipolar euthymic patients have 18 times higher risk of developing OCD in comparison with the general population (1). A study by Chen and Dilsaver reported that lifetime rates of OCD among probands with bipolar disorder were 21% (2). Raja et al analyzing data from a large nation-wide sample found that for those with either Bipolar I or II (most had Bipolar II), 21% had co-morbid OCD (3). Obsessive compulsive symptoms (OCS) can accompany either depressed mood or elevated mood. Findings suggest that in most cases OCS subside during manic episodes and reappear after remission of mania or at the beginning of depressive episodes (4,5). However, there are isolated case reports of manic and OCS symptoms occurring together (6).

Patients with bipolar disorder and OCD are amongst the most difficult to treat as no mood stabilizer has been shown to specifically reduce OCS. Serotonergic drugs effective in treating OCD have high risk of exacerbating mania. Many atypical antipsychotics such as olanzapine, risperidone and quetiapine commonly used in treating mania are reported to precipitate or worsen OCS (7). Clozapine is the atypical antipsychotic implicated the most for precipitating or exacerbating pre-existing OCS (8,9).

In this case report, we describe an elderly man with bipolar disorder currently manic and OCS who was successfully treated with clozapine.

Case report
A 63-year-old man presented with elevated mood, talkativeness, hyperactivity, hyper-religiosity, decreased need for sleep and increased energy. He believed that he had relations with religious and political figures and heard their voice commanding him to help others. During this time there were prominent obsessions of contamination and washing rituals. These symptoms were present over the last 2 months.

The patient has a history of bipolar disorder since adolescence (for approximately 45 years). During the previous episodes he frequently cleaned his house and courtyard and had outbursts of anger if he found garbage anywhere. Clinically significant OCS emerged only during the current episode of mania and these symptoms were disabling. He also had extrapyramidal symptoms-slurring of speech, rigidity and tremulousness. There were no features suggestive of an organic aetiology.

He had been hospitalized several times during relapses of acute mania and depression and had been treated with electroconvulsive therapy. He was poorly compliant with medications. The best response was seen with a combination of lithium 900-1500mg and haloperidol. Because he was diagnosed with chronic renal disease lithium was discontinued and oral divalproex sodium was commenced. At the time of presentation he was on divalproex sodium 1000-1250mg and haloperidol 10-15 mg. There were no features suggestive of other medical or surgical illnesses. Routine haematological and biochemical investigations and magnetic resonance imaging of the brain were normal.

Because of the severity of symptoms, extrapyramidal side effects and the poor response to the current treatment, patient was started on quetiapine. The dose was gradually increased to 200 mg but there was minimal improvement. Patient continued to be agitated and elated mood and grandiosity persisted. He slept only about two hours at night and was seen cleaning the floor and the windows of the entire 60 bed ward. Because of concerns that such severe exertion would be detrimental to physical health of this elderly patient, clozapine was commenced. Treatment was started at 50 mg/day and titrated to 300 mg/day. There was significant improvement of mania. Along with improvement of manic symptoms, disabling OCS also improved significantly.

Discussion
Clozapine has potent 5-HT2A and relatively weak Dopamine D2 receptor antagonism. It has a unique mechanism of action, with affinity to several neuroreceptors and maximal 5-HT2A:D2 affinity ratio compared to other...
The OCS in our patient may be a feature of the bipolar illness, and the remission of the bipolar symptoms could have led to the remission of the OCS symptoms as well. This is supported by the concept originally proposed by Kraepelin who considered anxiety as symptom of bipolar disorder (14). Current research strongly supports the concept of anxiety-bipolar spectrum as evidenced by high rates of co-morbid anxiety disorders such as panic disorder, social phobia, and OCD in bipolar disorder compared to population controls (15). Similar case reports where OCS has subsided with the use of mood stabilizers like lithium and sodium valproate in manic patients further support this hypothesis (6).

Our case report highlights the fact that OCS may be an epiphenomena of bipolar disorder and thus need not be always be diagnosed as a separate condition and treated separately. Though atypical antipsychotics and especially clozapine has been associated with emergence of OCS, the significance of this finding is still unclear. It is not clear whether OCS symptoms emerged due to treatment with clozapine or other antipsychotics or as part of the natural history of OCD (16). In fact case series, open label trials and placebo-controlled trials suggest that augmentation of antidepressants with antipsychotics is effective in the treatment of refractory OCD (17).

The co-occurrence of bipolar disorder and OCS needs to be explored further. There isn’t sufficient evidence yet to clarify if it is an epiphenomenon or part of the anxiety-bipolar spectrum. Although efficacy of clozapine in the treatment of mania is established, further research is necessary to understand its role in treating OCS in bipolar mania.

**Declaration of interest**

None declared

**References**


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