Positive response to clozapine augmentation in a patient with obsessive-compulsive disorder complicated by a tardive movement disorder

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The pharmacological treatment of obsessive-compulsive disorder (OCD) and obsessive-compulsive symptoms (OCS) can be a clinical challenge. The prevalence of OCD in the general population is 1-2%, but the prevalence of OCS is 12% in schizophrenia and 16% in bipolar disorder.

Antipsychotic agents are used for augmentation in severe OCD. Conversely, in schizophrenia, clozapine and, to a lesser extent, olanzapine and risperidone have been associated with worsening or de novo development of OCS.

We report the case of a patient with primary OCD who developed a tardive movement disorder that responded to clozapine augmentation.

A 35-year-old Venezuelan woman of African descent consulted the first author for severe obsessions about her skills as a dentist and for repetitively checking her procedures in front of her clients. These symptoms had lasted 2 months. She had previously experienced a severe episode of OCD at the age of 14, which improved spontaneously but left mild residual symptoms, such as compulsive cleaning and ordering. She described a lack of response to trials of quetiapine, lamotrigine, and transcranial magnetic stimulation. Fluoxetine (20 mg/day), risperidone (1 mg/day), and clonazepam (1 mg/day) were started, with an excellent response after 1 week of treatment.

After 3 months, she returned due to dyskinetic movements of her lips and jaws and focal dystonia of the tongue, which were diagnosed as tardive dyskinesia and dystonia by a consulting neurologist. Risperidone was discontinued; biperiden (8 mg/day) was partially effective for the abnormal movements for 2 months, at which time OCS recurred, along with severe anxiety associated with the abnormal mouth movements, which forced her to stop working. At that time, she was taking fluoxetine 40 mg/day and clonazepam 1 mg/day. Biperiden was discontinued and clozapine augmentation was added at bedtime, starting at 25 mg and escalating to 50 mg after 10 days. The OCS, abnormal movements, and anxiety improved considerably, and she was able to resume work 1 month after starting clozapine augmentation. The only remaining OCS after clozapine augmentation was described by the patient as a "tormenting thought" in the early morning, which was managed with cognitive psychotherapy and neurofeedback. Figure 1 shows the course of her Abnormal Involuntary Movement Scale (AIMS) and Yale-Brown Obsessive-Compulsive Scale (Y-BOCS) scores during clozapine administration.

This report describes a patient with severe, primary, non-psychotic OCD who, after starting low-dose risperidone to augment fluoxetine, unfortunately developed a tardive movement disorder (dyskinesia/dystonia). Fluoxetine is a CYP2D6 and CYP3A4 inhibitor, and inhibits risperidone metabolism. After stopping risperidone, augmentation of fluoxetine and clonazepam with a low dose of clozapine (50 mg/day) led to improvement in OCS and abnormal movements. Fluoxetine is a mild inhibitor of clozapine metabolism, but in typical patients, this effect is small (equivalent to multiplying the clozapine dose by 1.3).

The literature supports the use of clozapine for tardive dyskinesia. While there is a concern about using clozapine in patients with psychosis and OCS, this report further contributes to the literature supporting the use of short-term...
clozapine augmentation for cases of complicated primary OCD.

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Disclosure

The authors report no conflicts of interest.

References