Organic Hypomania Secondary to Sibutramine-Citalopram Interaction

Sir: Sibutramine, a serotonin-norepinephrine reuptake inhibitor (SNRI), is marketed for weight loss and weight maintenance.1 I report a unipolar depressed woman who had hypomania induced by sibutramine in combination with citalopram. No similar reports were found on MEDLINE.

Case report. A 43-year-old woman presented for treatment of major depressive episode with atypical features, based on the Structured Clinical Interview for DSM-IV (SCID).2 She had had unipolar major depressive disorder since age 35, and the present episode had lasted for 2 years. She had been taking citalopram, 40 mg daily, for 2 years, and she had not responded to fluoxetine, 60 mg daily, added to citalopram 2 months before. Because she had become obese, she had been given sibutramine (standard 10-mg daily dose) by the treating psychiatrist a few weeks before, while still taking citalopram. During the interview, she said that a few hours after the first sibutramine dose, she had experienced irritability, insomnia, more talkativeness, racing thoughts, distractibility, hyperactivity, psychomotor agitation, shivering, and diaphoresis, without marked impairment of functioning. These symptoms had persisted for 3 days during the period she had continued sibutramine. Then she discontinued sibutramine, and hypomanic symptoms disappeared in a day, returning to her baseline atypical depression. She had never had hypomanic spontaneous episodes, and she had never had substance-related disorders. She had a first-degree relative with bipolar II disorder. The husband confirmed the information.

The close temporal relationship between onset and disappearance of hypomania with the start and discontinuation of sibutramine suggests a causal link. Hypomania is not listed among the adverse events of sibutramine in nonpsychiatric patients.3 The timing of hypomania (rapid onset after sibutramine intake, symptoms closely associated with presence of the drug) suggests an effect like that of the dopamine-norepinephrine releasing agent d-amphetamine.4 Sibutramine does not have amphetamine-like effects in stimulant users,4,5 but some animal studies showed that it may increase extracellular brain dopamine levels as great as the levels of brain serotonin.6 A case of the appearance of acute psychosis during sibutramine use may support these animal studies.7 The rapid disappearance of hypomania after sibutramine discontinuation was probably related to its short half-life (less than 24 hours, including active metabolites).8 When combined with a serotonin reuptake inhibitor (citalopram), sibutramine (an SNRI) might induce an amphetamine-like hypomania. A serotonin syndrome (believed to be caused by too much brain serotonin), related to combination of sibutramine-induced and citalopram-induced serotonin increase, might also have been the cause of hypomania (hypomania is among the symptoms of the serotonin syndrome).9 However, this patient did not have hypomania when treated for some months with a high-dose combination of serotonin reuptake inhibitors (citalopram, 40 mg daily, plus fluoxetine, 60 mg daily), which should have greatly increased brain serotonin. However, the serotonin overload that occurred with sibutramine-citalopram may not be equivalent to the serotonin overload caused by citalopram-fluoxetine. Of the other symptoms of the serotonin syndrome (myoclonus, diaphoresis, shivering, tremor, diarrhea, incoordination, fever, and confusion),9 only diaphoresis and shivering were present. This patient had elements of both a stimulant-related state and a serotonin syndrome. A positive family history for bipolar II disorder may have increased the vulnerability to the hypomania-inducing effects of the citalopram-sibutramine combination. She had never taken psychostimulants in the past. Whichever the mechanism, the report suggests that combining sibutramine and a serotonin reuptake inhibitor could induce hypomania in persons with unipolar major depressive disorder with bipolar family history.

REFERENCES

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Risperidone-Induced Pisa Syndrome

Sir: The Pisa syndrome is a rare adverse effect of neuroleptic medication that is characterized by a peculiar posture featuring lateral flexion and backward axial rotation of the trunk.1 We report on a patient in whom this syndrome developed after 15 months of treatment with risperidone, which is one of the atypical neuroleptics with a high selectivity for dopamine D₂ receptors and serotonin 5-HT₃ receptors. As far as we know, this is the first report of risperidone-induced Pisa syndrome.

Case report. Mr. A was a 25-year-old man with a 5-year history of schizophrenia (DSM-IV 295.10). He had no family history of dystonia or other movement disorders and no abnormal findings on hematology tests, biochemistry tests, magnetic resonance imaging of the brain, and electroencephalography.

Because of severe auditory hallucinations, haloperidol (maximum dose = 8 mg/day) plus biperiden (maximum dose = 6 mg/day) was administered for 3 months after his first schizophrenic episode. However, risperidone (maximum dose = 9 mg/day) plus biperiden (maximum dose = 6 mg/day) was substituted after severe finger tremor developed.

Fifteen months after starting risperidone therapy (current dose = 7 mg/day), Mr. A complained of leaning to the right side and being unable to straighten up. Physical examination revealed tonic flexion of the trunk to the right accompanied by slight backward axial rotation. After withdrawal of risperidone, he was changed to haloperidol (3 mg/day) plus biperiden (3 mg/day), but his symptoms showed gradual progression. At 5 months after the onset of these symptoms, he was admitted to our psychiatric ward and was treated with haloperidol (3 mg/day) plus biperiden (3 mg/day) for psychosis. He also received agents reported to improve tardive dystonia, such as tiapride (maximum dose = 225 mg/day) for 4 weeks and clonazepam (maximum dose = 6 mg/day) for 7 weeks, but no benefit was seen. However, after 3 weeks of treatment with t-dopa/benserazide (400/100 mg/day), his symptoms improved slightly. Subsequently, 2 weeks after the addition of cabergoline (0.75 mg/day), the symptoms showed partial remission without exacerbation of his psychosis. Despite continued administration of these drugs, he still has these symptoms, although they are much improved.

Our patient fulfilled the criteria for tardive dystonia proposed by Burke et al.2 He also had all the major features of the Pisa syndrome, so it appears that this syndrome developed as a form of tardive dystonia. Since atypical neuroleptics, including risperidone, have generally been considered to be less likely to cause tardive dystonia than typical neuroleptics, risperidone has been regarded as a useful therapeutic agent for patients with such dystonia.1 Recently, it was reported that the Pisa syndrome could be caused by atypical neuroleptics like clozapine3 and sertindole4 in elderly patients with cerebral atrophy. Because our patient was a young man without cerebral damage, we conclude that the new neuroleptics can induce the Pisa syndrome in both elderly patients with brain damage and younger patients without it and that it may be very difficult to achieve complete remission despite various treatments. Therefore, the new neuroleptics should be administered with the same caution as classic agents.

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Interferon-Induced Depression Treated With Citalopram

Sir: Chronic infection with hepatitis C virus (HCV) is the most common cause of liver disease in the United States and is responsible for approximately one third of liver transplants.1 Interferon-alpha and combination therapy with interferon-alpha and ribavirin are the only approved treatments for chronic hepatitis C²; however, side effects, which include depression, anxiety, irritability, and even suicidal thoughts,3,4 can lead to discontinuation of therapy.

In the following case, a patient who had recovered from an initial depressive episode suffered a relapse following her diagnosis of HCV and initiation of interferon-alpha and ribavirin therapy. Citalopram, 40 mg/day, provided rapid, effective, and lasting relief from depressive symptoms and was well tolerated.

Case report. Ms. A, a 49-year-old menopausal woman, met DSM-IV criteria for major depression involving crying spells, low energy, anhedonia, insomnia, anxiety, and irritability. She reported no prior psychiatric history, she was taking no medications, and no comorbid conditions were evident at this time. Family history was significant for an 18-year-old daughter who had been diagnosed with anorexia.

Bupropion was prescribed and the dose was escalated to 400 mg/day in 6 days' time. After 6 weeks of therapy with no benefit noted, but side effects of insomnia and anxiety reported, bupropion dosage was decreased to 300 mg/day and fluoxetine, 10 mg/day, and zolpidem, 10 mg at bedtime, were added. Four weeks after these adjustments, Ms. A had discontinued both antidepressants due to anorgasmia and decreased libido and remained on zolpidem at bedtime. At this visit, her Hamilton Rating Scale for Depression (HAM-D) score was 12, and citalopram, 20 mg/day, was prescribed. After 4 weeks of citalopram therapy, her HAM-D score was 12, and no sexual side effects were present. She reported only minor fatigue that had not resolved with the rest of her depressive symptoms. She was advised to remain on this medication for 6 months, and zolpidem was continued on an as-needed basis.

A routine physical examination and blood work 4 months after initiation of citalopram therapy revealed the presence of HCV, and transaminase levels were elevated (AST = 110 IU/L; ALT = 174 IU/L), while thyrotropin and B₁₂ levels were normal (1.32 μIU/mL and 360 pg/mL).

Within 48 hours of commencing combination therapy with interferon-alpha (3 million units subcutaneously 3 times...
a week) and ribavirin (400 mg in the morning and 600 mg in the evening), Ms. A experienced crying spells, anhedonia, and anorexia and found it difficult to get out of bed in the morning. She reported that this depressive episode was more severe than the previous one described (confirmed by a HAM-D score of 36). Citalopram dosage was increased to 40 mg/day and zolpidem was continued as needed (10 mg at bedtime). Within 2 weeks, her depressive symptoms resolved and her HAM-D score returned to a baseline level. She remained on citalopram therapy through the 6 months of interferon-ribavirin therapy without recurrence of the depressive episode. ALT, AST, B12, and thyrotrin levels were all normal at the conclusion of therapy, and alkaline phosphatase levels remained normal throughout her illness and treatment.

Two months after completion of treatment for HCV, citalopram was tapered and discontinued over a 2-week period; zolpidem was being used about 10 days per month at this time. If further therapy for HCV should be needed, Ms. A has consented to beginning prophylactic antidepressant therapy prior to HCV treatment.

Interferon-alpha therapy is known to carry the risk of psychiatric symptoms in patients who are otherwise euthymic and can trigger a recurrence of depression in patients who had responded to antidepressant therapy. Furthermore, there appears to be an increased prevalence of depression in patients with chronic HCV infection. In the above case, the patient responded favorably and quickly to an increase in citalopram dose to 40 mg/day despite concurrent hepatic disease and treatment, which is consistent with reports of successful treatment of interferon-induced mood disorders with antidepressants. It has been suggested that the serotonergic system is possibly influenced by interferon, and this patient has consented to initiation of antidepressant therapy prior to further HCV therapy in the future. Indeed, a recent study argues for just such prophylactic antidepressant therapy in interferon-alpha–treated patients. In this double-blind study, malignant melanoma patients undergoing interferon-alpha treatment were much less likely to suffer from depression, and thus less likely to drop out of therapy, when receiving paroxetine, than those patients taking placebo from the outset of HCV treatment.

Dr. Farah has been a consultant for GlaxoSmithKline; has received honoraria from Forest, GlaxoSmithKline, Pfizer, and Lilly; and is a speaker/advisory board member for Forest, Lilly, GlaxoSmithKline, Pfizer, and Cephalon.

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Clozapine and Tardive Dyskinesia

SIR: In general, it is assumed that clozapine does not cause tardive dyskinesia. In fact, clozapine is used to treat the often permanent and disabling condition. A few reports, however, have demonstrated that tardive dyskinesia, although rare, can result from clozapine use.

Doepp and Buddeberg described a patient with chronic paranoid dyskinesia and akathisia who developed new-onset choreoathetoid dyskinesia of the trunk, extremities, and face after 27 days of treatment that quickly resolved with clozapine discontinuation. Additionally, a case of jaw dyskinesia was reported, occurring 2 weeks after clozapine was introduced. The symptom persisted for more than 1 year while the patient was treated with clozapine. Also, Dave described 2 patients who appeared to have developed clozapine-induced tardive dyskinesia. In the largest study of clozapine-related tardive dyskinesia to date, Kanes and colleagues studied 28 patients treated with clozapine for at least 1 year, with an average of 7.7 years. Results were inconclusive, as 2 of the patients in the study were diagnosed with tardive dyskinesia at conclusion but had questionable tardive dyskinesia at baseline. We report a case of a patient who developed symptoms of tardive dyskinesia while treated with clozapine.

Case report. Ms. A, a 45-year-old woman with DSM-IV schizoaffective disorder, bipolar type, had been treated with haloperidol in the past; however, regular use of this medication was discontinued 3 years earlier. Ms. A underwent trials of risperidone and olanzapine. Neither was effective in reducing auditory hallucinations or establishing mood stabilization.

Ms. A had never experienced symptoms of tardive dyskinesia prior to commencing treatment with clozapine. She first experienced involuntary tongue movements and akathisia at a clozapine dosage level of 225 mg/day, 5 months after clozapine treatment was initiated. She was hesitant to decrease the dose, because clozapine was the only effective medication for treating her hallucinations. Symptoms of tardive dyskinesia resolved when the dose was decreased to 150 mg/day; however, Ms. A experienced a distressing increase in auditory hallucinations.
The dose of clozapine was then gradually increased to 250 mg/day. Although it resulted in a decrease in auditory hallucinations, the involuntary tongue movements returned. Because clozapine had been so effective in decreasing her auditory hallucinations, Ms. A decided to accept the risk of continued tardive dyskinesia.

This case demonstrates that clozapine may cause tardive dyskinesia. Like most patients on clozapine therapy, Ms. A had been exposed to other antipsychotics, which may have sensitized her to develop tardive dyskinesia. Animal models have also demonstrated that clozapine can cause involuntary movements, although at lower rates than with haloperidol.6 Thus, because tardive dyskinesia is a serious adverse reaction, patients treated even with clozapine should be monitored for its development.

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Role of Receptor Binding Profiles in Antidepressant-Induced Sexual Dysfunction

Sir: Montejo et al.1 studied the incidence of sexual dysfunction associated with antidepressant agents. One thousand two hundred subjects treated with SSRI s, venlafaxine, mirtazapine, nefazodone, moclobemide, or amineptine were interviewed when they visited an outpatient clinic. The authors not only reported very interesting data about the incidence of sexual dysfunction, but they also measured the incidence of spontaneous improvement of sexual dysfunction. Among 352 patients, 55 patients (15.6%) reported “spontaneous improvement sometime after the onset of treatment.” The authors conclude that “it does not seem to be practical” to wait for tolerance to develop. I agree with the authors that, until now, specific data on the mean time required for sexual side effects to disappear and on the probability of spontaneous remission were missing. But I don’t think that the data presented by Montejo et al. are specific enough to draw conclusions for the management of antidepressant-induced sexual dysfunction, because they included patients treated with various antidepressants that had different receptor binding profiles. Compared with tricyclic antidepressants, SSRI s have a more specific receptor binding profile, as well as a specific sexual side effect profile. Although decreased sexual desire and arousal (erection, lubrication) difficulties have been associated with SSRI treatment, delayed or absent orgasm seems to be the typical sexual dysfunction caused by SSRI s. Venlafaxine, mirtazapine, nefazodone, moclobemide, and amineptine might cause different kinds of sexual dysfunction (libido, arousal, orgasmic function) with different outcome.

REFERENCE


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Dr. Montejo Replies

Sir: I agree with Dr. Haberfellner that the results reported by my coworkers and I1 about spontaneous remission of sexual dysfunction are not specific enough regarding each drug. We must wait to obtain new results comparing spontaneous remission of antidepressants with different receptor binding profiles. My colleagues and I are working on increasing the sample in order to have data about this relevant issue. Nevertheless, serotonergic drugs seem to have very consistent results related to the incidence of libido, orgasm, ejaculation, and also erectile dysfunction, not only with selective serotonin reuptake inhibitors (SSRIs) but also with clomipramine and venlafaxine. In our study, patients on venlafaxine treatment (N = 55, mean dosage = 159 mg/day) showed incidence rates of sexual dysfunction similar to those of patients on SSRI treatment. This could be due to the serotonergic mechanism of action of venlafaxine (decreased libido, 60.0%; delayed orgasm/ejaculation, 61.9%; anorgasmia/ejaculation, 41.8%; and erectile dysfunction, 40.0%). These data did not show statistical differences with SSRIs. On the other hand, mirtazapine and particularly nefazodone and moclobemide are associated with significantly less incidence of sexual dysfunction than are SSRIs and venlafaxine. These different rates of incidence of libido and orgasmic problems could be due to a different mechanism of action. Unfortunately, amineptine was removed from the market last year in Europe, so we can no longer use it as an alternative therapy. It would be informative to analyze different outcomes related to each drug and be able to predict whether some of them could have a higher rate of spontaneous remission of sexual dysfunction than others. I would like to thank Dr. Haberfellner for his suggestive and thought-provoking comments.

REFERENCE


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Olanzapine for the Treatment of Monosymptomatic Hypochondriacal Psychosis

Sir: The syndrome of monosymptomatic hypochondriacal psychosis is a form of DSM-IV delusional disorder, somatic subtype, characterized by a delusional belief that one is afflicted with a medical disorder or defect. The delusional symptoms are circumscribed. Such patients often present to dermatologists with delusions of parasitosis. The literature describes case studies and 1 double-blind crossover study indicating benefit from typical neuroleptics, especially pimozide, for this disorder.4,5 However, pimozide has the potential undesirable effects of typical neuroleptics, including tardive dyskinesia and other extrapyramidal symptoms, and significant cardiac conduction effects, such that the manufacturer recommends baseline and follow-up electrocardiograms with pimozide treatment. Several case studies describe successful treatment of monosymptomatic hypochondriacal psychosis with atypical neuroleptics, 3 with risperidone,4–6 1 with sertindole,7 and 1 with olanzapine.8 The present case describes a second successful treatment of monosymptomatic hypochondriacal psychosis with the atypical antipsychotic olanzapine.

Case report. Ms. A, a 76-year-old woman, was referred for psychiatric treatment by her internist for persistent delusions of about 5 years’ duration that her body was infected by fungus. She said the fungus caused a funny taste in her mouth, and, when she washed dishes, she could see the fungus coming out of her skin and going into the water. She thought the fungus crept down her arms during the night. She spent about an hour in the bathtub in the morning and again in the evening, scrubbing her skin with a washcloth to remove the fungus. She avoided some social situations to avoid contaminating other people. Her appetite was poor, and her weight had decreased from approximately 50 kg (110 lb) to about 37 kg (82 lb) over several years. She slept adequately and described her mood as neutral; she scored only 4 on the Beck Depression Inventory in the normal range. She had a brief unsuccessful trial of pimozide at unknown dosage from a dermatologist. Lorazepam had provided no benefit. Ms. A also had a mild dementia of the Alzheimer type, which, according to her family and to her neuropsychologist’s records, became manifest years after the somatic delusional disorder. Her dementia was treated with donepezil, 10 mg/day. She had also been diagnosed with Parkinson’s disease several years after the onset of delusions and started on levodopa/carbidopa, 25/100 mg t.i.d. She took levothyroxine, 0.075 mg/day, for hypothyroidism. On mental status examination, the patient had a blunted affect and subdued mood and no other hallucinations or delusions, save those involving her non-existent fungal infection. She was disoriented to time, with poor short-term memory, scoring 18 of 30 on the Mini-Mental State Examination.

Treatment with olanzapine at 2.5 mg/day improved her delusions in a matter of weeks. Ms. A reported that her skin was doing well, and the family noted that she was no longer preoccupied with the fungus. She stopped her excessive bathing, her affect appeared brighter, and neither her mild Parkinson’s disease nor her dementia appeared to worsen on the low dose of olanzapine. After 5 months of treatment, Ms. A gained 6 kg of weight (13 lb), although she still subjectively reported no apper-