Seizure During Risperidone Treatment in an Elderly Woman Treated With Concomitant Medications

Sir: Risperidone, a recently introduced novel antipsychotic, is associated with a low incidence of seizures. During premarketing testing, seizures occurred in 0.3% (9/2607) of risperidone-treated patients (with dosages unrevealed), two in association with hyponatremia. To our knowledge, no post-marketing risperidone-associated seizure has been reported. We describe an elderly schizophrenic woman who developed a single seizure after 2 days of coadministration of risperidone, sulfamethoxazole-trimethoprim, and astemizole.

Case report. Ms. A, a 64-year-old Chinese schizophrenic woman, had been physically healthy and devoid of any seizure or substance abuse history before this hospitalization. She failed adequate trials of two antipsychotics, sulpiride and fluphenixol. After 7 days of washout, risperidone was started at 1 mg b.i.d. on Day 1. However, a mild urinary tract infection occurred incidentally on the same day. Sulfamethoxazole (400 mg)-trimethoprim (80 mg) was thus coadministered b.i.d. On Day 2, the dosage of risperidone was increased to 2 mg b.i.d. A mild scalp itch appeared, and astemizole 10 mg/day was then prescribed. Surprisingly, 9 hours after taking the initial four doses (1 mg, 1 mg, 2 mg, and 2 mg) of risperidone, she experienced a single, witnessed, 1-minute generalized tonic-clonic seizure with a 5-minute postictal confusion period. Risperidone was discontinued immediately, and astemizole was withdrawn 1 day later. Sulfamethoxazole-trimethoprim was continued for 7 days. A thorough workup, including urine/blood routine, a biochemistry examination, an ECG and a head CT scan, produced negative findings, except bacteriuria and a mild fever. The electroencephalogram results before risperidone therapy and 1 day and 4 months after the seizure were all unremarkable. Her psychotic symptoms (e.g., auditory hallucinations) subsided abruptly after the seizure, but emerged again 15 days later. Consequently, risperidone was restarted at a lower dosage, 0.5 mg b.i.d. The psychotic symptoms receded on this regimen. She has now been free of seizures for 4 months. Antiseizure medications were not added.

Astemizole, a peripherally acting H₁ antagonist, has not been reported to induce seizures in patients. In developing mice, astemizole, in contrast to other centrally acting H₁ antagonists, does not increase the durations of electrically induced seizures. Rare incidences of convulsions have been indicated in sulfamethoxazole-trimethoprim-treated patients. However, among 1121 sulfamethoxazole-trimethoprim-treated inpatients participating in the Boston Collaborative Drug Surveillance Program, none developed seizures. Drug-drug interactions have not yet been reported among risperidone, astemizole, and sulfamethoxazole-trimethoprim. Studies to investigate the possibilities of their drug interactions are needed in the future.

The initial risperidone dosing schedule of the present case had been used in the North American multicenter studies with the subjects aged 18–65 years. Nonetheless, there is a paucity of data relating to the use of risperidone in elderly schizophrenic patients. Of the very few geriatric subjects in the previous open trials, most could tolerate the final daily doses of 4–6 mg with slower dose increments. In the elderly, the half-lives of risperidone and its active metabolite, 9-hydroxyrisperidone, are prolonged; and the clearance of 9-hydroxyrisperidone is reduced. Therefore, larger-scale and well-designed studies regarding the optimal dosing strategy (in terms of both efficacy and adverse drug effects) in geriatric schizophrenics are required.

Due to ethical issues, a rechallenge with the initial dosing schedule was not applied to this patient. Nevertheless, the potentially contributory role of risperidone in the seizure should be considered. High-dose therapy and rapid upward dose titration are associated with greater risks of seizures in patients treated with classical antipsychotics and clozapine; and, accordingly, might also increase the potential of risperidone-related seizures. This patient, experiencing no seizures on the second occasion of risperidone treatment (with lower doses and slower dose titration), might lend partial support to this presumption. To prevent dose (and dose increment)-related side effects, such as postural hypotension and possible seizures, we now recommend the guideline of “start low and go slow” for risperidone therapy in the elderly, especially those with impaired kidney or liver functions, or those using concomitant medications that could affect the metabolism of risperidone.

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Valproic acid was restarted (250 mg q.a.m., 500 mg q.h.s.), to introduce fluoxetine later. Although his anxiety decreased, he discontinued low-dose valproic acid (250 mg t.i.d.), intending to reinstate it because of feelings of anxiety and agitation. We then decreased adverse effects after pretreatment with valproic acid. We therefore pretreated an OCD patient intolerant of standard doses of fluoxetine, sertraline, and clomipramine with valproic acid.

Case report. Mr. A, a 35-year-old single white man with a 15-year history of OCD, had stopped his job as a mechanic because of increased anxiety and marked obsessions about his parents’ safety. He compulsively touched his parents 70 to 80 times per day, checking that they were alive. Mr. A became housebound and prevented his parents from answering phone calls out of obsessional fears, which he acknowledged were senseless. His mood was sad without neurovegetative symptoms. He had a family history of depression, with good treatment response to conventional antidepressants, but no family history of bipolar disorder or treatment with mood stabilizers. Baseline ratings revealed Yale-Brown Obsessive Compulsive Scale (Y-BOCS), Hamilton Rating Scale for Anxiety (HAM-A), and Hamilton Rating Scale for Depression (HAM-D) scores of 24, 9, and 20, respectively.

We started fluoxetine 5 mg/day, which Mr. A discontinued on his own because of feelings of anxiety and agitation. We then started low-dose valproic acid (250 mg t.i.d.), intending to reintroduce fluoxetine later. Although his anxiety decreased, he discontinued valproic acid because of sedation after 1 week. Valproic acid was restarted (250 mg q.a.m., 500 mg q.h.s.), together with fluoxetine 1 mg/day. Two weeks later, he appeared less anxious, “in control,” and had resumed working 5 to 10 hours/day after not working for 6 months. His obsessions regarding his parents’ safety ceased. His total Y-BOCS, HAM-A, and HAM-D scores decreased to 11, 6, and 12, respectively. His plasma valproic acid level was therapeutic at 85 µg/mL. Although we originally planned to increase the fluoxetine dose, we discontinued it instead, believing valproic acid was responsible for the clinical improvement. The patient further improved on valproic acid monotherapy: his overall Y-BOCS, HAM-A, and HAM-D scores decreased to 8, 3, and 10, respectively. This apparent antidepressant and antidepresant effect of valproic acid has continued for 10 weeks. His OCD symptoms are now mild, and he reports euthymic mood. He has resumed a normal work schedule, and his social interactions have improved.

This case suggests that valproic acid monotherapy may be useful in OCD patients who are intolerant of SRIs. The maximum beneficial valproic acid effect in this patient occurred only after therapeutic levels of the drug were achieved. The patient may have benefited from valproic acid treatment because of co-morbid depression, although OCD appears to be his primary diagnosis. There is evidence that clonazepam may be useful in augmenting SRI treatment in OCD, possibly implicating GABAergic mechanisms, which may account for therapeutic effects of valproic acid in this case. Controlled clinical trials are needed to establish the effectiveness of valproic acid monotherapy in OCD and other anxiety disorders.

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Risperidone and Allergic Reactions

Sir: Risperidone, the first benzisoxazole antipsychotic, has dopamine D2 and serotonin 5-HT2 antagonistic properties. To our knowledge, there have been only three case reports regarding dermatologic side effects of risperidone. Two of the patients had bullous pemphigoid. In this report, we present a case of severe allergic reactions to risperidone resulting in edema, eruption, and stridor.

Case report. Mr. A, a 67-year-old man with epileptic psychosis, had been treated with the same combination of carbamazepine, phenytoin, phenobarbital, haloperidol, profenamine, idebenone, vinpocetine, and diltiazem for several years. The types and dosages of these medications were unchanged during the addition of risperidone and subsequent allergic reactions. Because a thought disorder (i.e., loosening of association) persisted, 2 mg/day of risperidone was added in 1996 and was increased gradually to 6 mg/day over 2 weeks. One month after the start of risperidone treatment, he developed edema on his face and both insteps. At that time, his renal function, thyroid function, and serum total protein were within normal range. Risperidone was discontinued 42 days after its start. No changes were made in the other drugs. Antihistaminergic treatments were started; however, he developed disseminated maculopapular drug eruption 1 day after the discontinuation of risperidone and stridor 4 days after discontinuation. The eruption had urtiacaria character. Seven days after discontinuation, the edema, eruption, and stridor persisted, and IgE was elevated at 261 IU/mL (normal range, <250 IU/mL), whereas C3 and C4 were 101 mg/dL (normal, 55–115) and 29.7 mg/dL (normal, 15.0–50.0), respectively. After 15 days, the edema had resolved completely, both the eruption and stridor had improved, and IgE was decreased to 205 IU/mL. After 21 days, the disseminated maculopapular eruption and stridor had also resolved completely.

In this case, the edema occurred 31 days after the commencement of risperidone and lasted 26 days, while the eruption and stridor began 43 and 46 days after starting risperidone.
and lasted 20 and 17 days, respectively. Although the eruption and stridor occurred just after risperidone discontinuation, it seems likely that risperidone and/or its active metabolite, 9-hydroxyrisperidone, remained in the patient’s body and induced the eruption and stridor. Strictly speaking, however, it is not clear whether risperidone itself or the other components in the tablet contributed to Mr. A’s allergic reactions. It is thus worth noting that the Japanese version of the risperidone tablet includes wax in place of the pigment found in the U.S. tablet.

With regard to the types of allergic reactions, Type I allergic reaction may be plausible because IgE was elevated, albeit slightly, during these reactions. Stridor is common in Type I allergic reaction, and the eruption was urticarial in character, whereas Type II and Type III reactions are somewhat unlikely because C3 and C4 values were within normal range. Other reactions, such as Type IV, might also be considered because it took a relatively long time for Mr. A’s allergic reactions to occur after he started taking risperidone and to resolve after he stopped taking risperidone.

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Delirium With Manic Symptoms Induced by Diet Pills

Sir: We report on a patient with chronic depression controlled by antidepressant medication who developed delirium with manic symptoms after being started on diet pills containing a combination of fenfluramine and phentermine.

Case report. Ms. A, a 50-year-old overweight white woman with a history of major depression, had been stable on a combination of imipramine 150 mg q.d. and venlafaxine 100 mg b.i.d. for more than 2 years with no adverse reactions. Two weeks before hospitalization, the patient’s internist prescribed diet pills consisting of fenfluramine 20 mg t.i.d. and phentermine 30 mg q.d. On Day 10 of the diet pill regimen, Ms. A became manic with elated mood, increased psychomotor activity, decreased sleep, racing thoughts, pressure of speech, and loosing of association. She was also hypersexual and appeared confused at times, but had neither grandiose delusions nor hallucinations. She had no past history of mania or family history of bipolar disorder.

Ms. A was brought to the emergency room and, after initial evaluation, was admitted to the medical floor. Her mental status examination showed impaired recent memory, loosening of association, and an irritable affect. Physical examination results were normal, and all routine laboratory test results were within normal limits except for an elevated WBC count. No evidence of infection was found on blood cultures, chest x-ray, and CSF analysis. A CT scan of the brain showed no abnormalities.

While Ms. A was on the medical floor, both psychotropic medication and the diet pills were withdrawn. The manic symptoms and the cognitive deficits remitted by the third day of hospitalization, at which time she was transferred to the psychiatric floor. She was restarted on antidepressants and observed for 5 days. The patient remained asymptomatic during the rest of her stay.

The prevalence of obesity in the United States has increased in the last few decades; around 30% of U.S. adults are considered overweight. Obesity contributes to many adverse health outcomes, such as cardiovascular disease, diabetes mellitus, and cancer. While earlier treatments for obesity consisted mainly of diet control and behavior modification, pharmacotherapy has gained immense popularity after the recent reports by Weintraub et al.3,4 that showed sustained weight loss with a combination of fenfluramine and phentermine. This increased popularity has led to the establishment of many weight loss clinics devoted to the prescription of weight loss pills such as fen-phen and dexfenfluramine.

The rationale for using a combination therapy is that drugs with different mechanisms of action used together in smaller amounts provide equal or greater efficacy with fewer adverse effects than the same drugs used in monotherapy at higher doses. Fenfluramine acts by a serotonergic mechanism, whereas the stimulant anorexiant phentermine appears to decrease appetite through a dopaminergic and noradrenergic pathway.3 Although this combination has been relatively well tolerated, we report a case of diet pill–induced delirium with manic symptoms in a patient with a long-standing history of depression. These diet pills may cause sufficient imbalance in the neurotransmitters or their receptors to result in cognitive and mood disturbances in predisposed individuals. Thus, it may be necessary to exercise caution while prescribing these diet pills in individuals with a prior history of mood disturbances.

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Editor’s Note: The letter by Drs. Bagri and Reddy was submitted before fenfluramine was withdrawn from the U.S. market.

Rapid Efficacy of Olanzapine Augmentation in Nonpsychotic Bipolar Mixed States

Sir: Traditional antipsychotics are potent acute antimanic agents. However, their utility is limited by acute and chronic neurologic toxicity, which appears to be more prevalent in mood disorder than in schizophrenia patients.3,2 In addition, in
some patients older antipsychotics may either exacerbate or fail to relieve or to prevent depressive symptoms.

The introduction of atypical antipsychotics with less potential for neurologic adverse effects and greater potential for relief of negative symptoms (which resemble depression) has led to preliminary clinical exploration of the roles of such agents in the management of patients with both psychotic and nonpsychotic bipolar disorders. Clozapine appears to stabilize mood, while risperidone may yield a complex pattern of alleviating depression7 as well as mania15 in some patients yet exacerbating or inducing mania6,7 in others. The latter profile to some extent resembles that of an antidepressant (rather than a mood stabilizer) and could be due to the predominant serotonin 5-HT2 receptor antagonism seen with risperidone.

Olanzapine is a recently marketed atypical antipsychotic with a safety profile superior to that of clozapine. Emerging evidence suggests that olanzapine may relieve mood symptoms in patients with schizophrenic, schizoaffective disorder, and psychotic mood disorders.4–6 Olanzapine has a receptor antagonism profile more like that of clozapine than that of risperidone.8 In particular, olanzapine lacks the predominant 5-HT2 receptor blockade seen with risperidone. Thus, olanzapine could provide less risk of mania, mixed states, or rapid cycling than risperidone. We present our experience with our first two bipolar patients treated with olanzapine. These bipolar I patients with nonpsychotic mixed states (as diagnosed using DSM-IV criteria) had rapid dramatic improvement with the addition of olanzapine to mood stabilizers.

Case 1. Mr. A, a 34-year-old married Asian male professional, has had bipolar I disorder since age 17 and prior but no current drug and alcohol abuse. He was hospitalized once for nonpsychotic mania, and, on lithium monotherapy, he had a 2-month mixed mood state episode and required intermittent antidepressant or thioridazine for subsyndromal depressive and hypomanic symptoms, which initially resolved with the addition of divalproex sodium.

However, after a 4-month period of euthymia while taking lithium 900 mg/day (serum level = 0.7 mEq/L) and divalproex sodium 750 mg/day (serum level = 51 µg/mL), and during a period of increased occupational and familial stress, Mr. A entered a nonpsychotic mixed mood state that gradually worsened over a 6-week period. Symptoms included marked irritability (he had not talked to his wife for several days), psychomotor agitation, distractibility (he stopped driving after a minor motor vehicle accident), episodic passive suicidal ideation, and decreased sleep (4 hours), need for sleep, appetite, and ability to enjoy activities. He denied psychotic symptoms, but admitted marked pessimism regarding the chances of survival of his marriage, despite the repeated assurances of his distraught wife that she was firmly committed to their relationship. Hospitalization was offered, but Mr. A and his wife expressed a strong desire to address these difficulties with outpatient treatment.

Doses of lithium and divalproex had previously been limited by gastrointestinal (diarrhea) and neurologic (tremor) adverse effects. Thus, olanzapine 10 mg at bedtime was added, and the patient slept well after the initial dose for the first time in over 2 weeks. On awakening the next morning, he reported complete remission of symptoms, and thus hospitalization was avoided. His wife even expressed some anxiety around how suddenly his mood had completely returned to euthymia. He experienced very mild sedation on first awakening in the morning, which resolved after 3 days of therapy, but denied any other adverse effects. Six months later, Mr. A continues improved, and a gradual taper of olanzapine will be considered once the ongoing occupational and familial stressors resolve.

Case 2. Ms. B, a 47-year-old married white female professional, has had bipolar I disorder since age 22 and abused drugs in her early 20s. She had never been psychotic or hospitalized, but manic episodes had resulted in job loss and marked relationship difficulties. In the prior year she had been rapidly cycling between major depression and hypomania despite taking carbamazepine 800 mg/day (serum level = 8.4 µg/mL) and levotheroxine 100 µg/day and minimizing antidepressant (paroxetine and bupropion) use.

Carbamazepine was discontinued due to neurotoxicity and inefficacy. Over a 2-week period while being switched from carbamazepine to divalproex sodium, Ms. B escalated into a mixed mood state with marked affective lability. Her mood gradually shifted from predominantly euphoric with very brief periods of irritability and depression (particularly during interactions with her husband) to irritable and dysphoric most of the time and in most social interactions with only brief periods of euphoria. She developed decreased sleep (3 hours) and need for sleep and variable appetite along with psychomotor agitation, distractibility, and passive thoughts of death, but no psychotic symptoms. She took medical leave from work, and problems at home intensified so that her husband considered moving out of the house. The above occurred despite therapy with divalproex sodium 375 mg/day, lorazepam 3 mg/day, and levotheroxine 100 µg/day. Both the patient and her husband agreed to having her admitted to the hospital.

In view of gastrointestinal discomfort (diarrhea), which was limiting the rate of divalproex introduction, and Ms. B’s psychiatric acuity, olanzapine 10 mg at bedtime was added, and that night she slept well for the first time in 10 days. Her mood was improved the next morning, but she complained of sedation and light-headedness, which attenuated enough the following day to allow discharge home with partial (day) hospitalization. Thus, full (inpatient) hospitalization was limited to 2 days. Her husband felt that she had improved sufficiently that he no longer wished to move out.

Over the next 2 weeks during partial hospitalization, medications were gradually titrated so that, on lithium 600 mg/day (serum level = 0.5 mEq/L), divalproex sodium 750 mg/day (serum level = 51 µg/mL), and levotheroxine 100 µg/day, her mood improved further, she returned to work, and olanzapine could be subsequently decreased to 5 mg at bedtime. Two weeks later, scheduled dosing of olanzapine was discontinued. For the following 4 months, Ms. B remained primarily euthymic with baseline occupational and social function. However, efforts to decrease mood stabilizer doses to improve gastrointestinal tolerability yielded breakthrough mood symptoms and insomnia, which were alleviated by 2.5 to 5 mg of olanzapine at bedtime as needed.

These cases demonstrate that addition of olanzapine to mood stabilizers in patients with nonpsychotic bipolar mixed states may yield rapid affective improvement and may be well tolerated. It is not clear whether olanzapine yielded direct mood stabilization or indirect benefit by improving sleep. Hospitalization was avoided in one case and limited to only 2 days in the other. Thus, olanzapine augmentation appeared to limit not only patient suffering, but also hospitalization costs.

Our two open treatment cases need to be considered with caution, particularly in view of the early positive experience with risperidone, which was later qualified with the possibility that this agent may induce or exacerbate mania in some patients.16 However, mixed states are among the most difficult treatment challenges in bipolar disorders, and this very limited initial experience suggests that further clinical exploration and ultimately controlled trials may be warranted to examine the
Mania Induced by Risperidone: Dose Related?

Sir: Risperidone is a serotonin-2/dopamine-2 (5-HT/ D2) receptor antagonist that has demonstrated efficacy in the treatment of schizophrenia. It has also been suggested to possess acute antimanic effects in some patients. Other preliminary data, however, indicate that risperidone may initiate or exacerbate manic symptoms owing to its putative antidepressant activity. The mixed data (and the underlying etiologies) on its mood effects need to be clarified. We here report two schizoaffective patients who developed manic symptoms at specific doses of risperidone, but not at other doses. We propose a potential mechanism to account for this probable dose-related phenomenon as well as the prior inconsistent reports concerning risperidone’s mood effects.

Case 1. Ms. A, a 48-year-old Chinese woman, had suffered from schizophrenia for 10 years without treatment. She had been physically healthy and devoid of any seizure or substance abuse history. Recently, she was first hospitalized for acute exacerbation with prominent positive and negative symptoms, including auditory hallucinations, persecutory delusions, somatic delusions, apathy, aloxia, anergia, and anhedonia. Physical examinations, ECG, chest x-ray, urinalysis, hematologic, serum chemistry, and hepatitis B serology all produced negative findings.

Risperidone alone was initiated and gradually titrated to 6 mg/day over 3 days. Adverse drug effects, including sinus tachycardia, dizziness, acute tongue dystonia, tremor, and sialorrhea, developed without reductions in the positive and negative psychotic symptoms. Three weeks later, the dosage was reduced to 4 mg/day because of the intolerable adverse effects. The positive symptoms subsided; however, the negative symptoms and the side effects continued. Consequently, we further decreased the dosage to 3 mg/day after 2 more weeks. A manic state with grandiosity, hyperactivity, increased talkativeness, flight of ideas, and elated mood emerged 2 days later.

The EEG performed 4 days after the initial presentation of manic symptoms showed generalized intermittent theta waves and generalized spike-and-wave complexes. To prevent potential seizures, risperidone was withdrawn temporarily. The manic features receded soon, and the positive and negative psychotic symptoms recurred. Risperidone at 2 mg/day. A hypomanic state with pressured speech, hyperactivity, and flight of ideas emerged 2 days later. The EEG displayed generalized intermittent theta waves. The dose was then tapered to 1.5 mg/day. Three days later, the positive and the negative psychotic symptoms as well as the adverse drug effects diminished greatly. A euthymic mood resumed, and EEG results were normal.

Case 2. Mr. B, a 36-year-old Chinese man with chronic schizophrenia, was hospitalized for auditory and somatic hallucinations and persecutory delusions. Neither comorbid medical conditions nor substance abuse was noted. He was prescribed risperidone after failure to respond to four classes of traditional antipsychotic drugs. The dosage was titrated up to 6 mg/day in 3 days. After 6 more days, the psychotic symptoms receded, but severe akathisia emerged even after the gradual addition of benztrpine up to 6 mg/day over another 3 days. After 5 more days, the dose of risperidone was decreased to 4 mg/day. The akathisia lessened, but a manic state appeared 3 days later. Euphoric mood, hyperactivity, pressured speech, flight of ideas, and grandiosity were evident over the next 10 days. The risperidone dosage was further reduced to 2 mg/day. Mr. B then became euthymic and free from psychotic symptoms and side effects. No other concomitant medications were prescribed.

At least two treatment-related factors could have affected the development of mania in our two patients: the dose before the manic features and the treatment duration after risperidone was initiated. First, it is possible that the mania might appear at specific doses; doses that are too high or extremely low may be
less likely to generate manic symptoms. The dose-response relationships appeared clear by virtue of the careful ABAB (A: the doses unlikely to cause mania, B: those tending to) case design in Ms. A, and the ABA design in Mr. B. Risperidone at lower doses shows marked preference for the 5-HT2 receptors, whereas at high doses both the D2 and the 5-HT2 receptors are completely blocked and the 5-HT2/D2 difference is negligible.7

It has been suggested that the blockade of 5-HT2 receptors could bear antidepressant effects and induce mania, whereas antidopaminergic activities might result in the antimanic property.1

We further propose that the mood state might be a function of the ratio of 5-HT2 receptor occupancy to D2 receptor occupancy. A high ratio could give rise to an elevated mood. Thus at lower (but not too low) doses, risperidone might have a greater potential to initiate or exacerbate manic symptoms. Extremely low doses, however, yield pharmacologic activity that is too limited to affect mood. Moreover, it has been postulated that 5-HT2 antagonism, by disinhibiting the dopaminergic system, would lead to enhanced dopaminergic transmission in the prefrontal cortex. Therefore, with smaller doses of risperidone, the mania-inducing effects could result from the 5-HT2 antagonistic action as well as the ensuing dopamine disinhibiting effects. In contrast, at high doses, risperidone’s dopaminergic blockade action could counteract the dopamine disinhibiting effects.

To sum up, the mood altering (either mania-inducing or antimanic) properties of risperidone might be attributable to the dose-dependent differences in the forebrain dopamine disinhibiting effects of 5-HT2 antagonism, rather than the receptor occupancy ratio per se. Since the interindividual variability of plasma concentrations of risperidone and 9-hydroxyrisperidone (risperidone’s principal metabolite with similar pharmacologic profiles) at a certain dose is greater than 40-fold, the plasma level may more directly influence the mood than the dose itself. Previous contradictory reports on risperidone-associated mood changes could be partially explained by the variable doses or consequently the much more variable plasma concentrations in those subjects. Different doses or plasma concentrations may exert different or even contrary impacts on the mood state.

Another possible variable determining the emergence of mania in our two patients is the treatment duration since risperidone was initiated: about 6 weeks in the first case and 3 weeks in the second. The spans are much longer in comparison with those in most earlier patients who experienced risperidone-associated mania.28 In the 13 previously reported cases,26 only one patient developed mania 6 weeks after risperidone started,6 while others did after a mean of 7 days or fewer.8,23 Some factors, if present, might lead to the delayed onset of manic symptoms. It has been indicated that the presence of conditions affecting protein binding, hepatic blood flow and metabolism, or renal excretion could influence the disposition of risperidone and its 9-hydroxy metabolite. Similarly, cytochrome P450 2D6 (CYP2D6) inhibition by concomitant agents, such as fluoxetine and paroxetine, could theoretically reduce the conversion of risperidone to 9-hydroxyrisperidone.5 The resultant fluctuations in the plasma levels of the two compounds might play a role in the tardy development of mania. However, our medically sound subjects, without concurrent drugs influencing CYP2D6, were not prone to these conditions.

The above observations and hypotheses should be considered preliminary. Further studies to elucidate the role of risperidone (especially at various doses or plasma concentrations, and with diverse treatment spans) in mood are warranted.

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Emergence of Koro
After Abrupt Cessation of Olanzapine

Sir: Koro1 is a Malay term meaning “head of a turtle.” First reported by Dutch physicians working in western Sulawesi, the condition has also been observed among ethnic Chinese, where it has been known as suoyang (suo: retract; yang: penis). Koro has been described as the intense fear that one’s genitals are shrinking into the body and may recede into the abdomen, possibly causing death.1 We describe a case of koro that developed in a young white man after the abrupt cessation of olanzapine and resolved after olanzapine was subsequently restarted.

Case report. Mr. A, a 19-year-old white man, was admitted to the psychiatric inpatient unit after a suicide attempt. Eight months earlier, he had experienced recurrent depression with psychotic symptoms including persecutory auditory hallucinations. At admission, the olanzapine treatment he had been receiving was abruptly stopped in preparation for electroconvulsive therapy (ECT). Although his depression appeared to improve after four cycles of ECT (and off olanzapine), he began experiencing a sudden overwhelming fear that his penis and left testicle were shrinking and receding into his abdomen. Although the psychiatrist on call examined the patient and reassured him that his physical condition was normal, Mr. A displayed catastrophic anxiety and demanded a second opinion, though the psychiatrist on call examined the patient and reassured him that his physical condition was normal. Mr. A believed the shrinkage was caused by the abrupt cessation of olanzapine. He insisted on being restarted on olanzapine and was subsequently restarted. This case raises the question of whether the abrupt cessation of olanzapine was related to the

Koro has been described in association with organic mental illness, depression, anxiety, psychosis, and phobic disorder.2 This particular case is unusual in that koro occurred in a white male (who had no prior history of koro symptoms) who abruptly stopped olanzapine treatment and remitted when olanzapine was subsequently restarted. This case raises the question of whether the abrupt cessation of olanzapine was related to the
onset of this patient’s koro symptoms. The patient’s relatively rapid clinical response to reinstitution of olanzapine also raises questions about the pathophysiology of koro symptoms in this case, and whether these symptoms are distinct from that of the patient’s underlying psychosis.

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Recurrent of Lamotrigine-Associated Rash With Rechallenge

Sir: Lamotrigine is a relatively new antiepileptic drug with possible efficacy in treatment-resistant bipolar disorder.1 Skin rashes of various kinds occurred in 10% of patients in controlled trials of lamotrigine and led to discontinuation of treatment in 2% of patients taking lamotrigine.2 Rash is more likely with higher starting doses, faster dose titrations, and concurrent treatment with valproate acid (possibly because valproic acid doubles lamotrigine blood levels).3 Lamotrigine rashes occasionally resolve without intervention despite continued treatment, but serious rashes requiring hospitalization have occurred at a rate of 0.27%.4

Rechallenge with lamotrigine after discontinuation of the drug because of rash was tolerated without rash recurrence in 13 of 16 patients, generally with use of slower drug titration rates.5,6 We report our experience with a patient who had a recurrent rash upon rechallenge with lamotrigine that did not improve despite additional treatment with prednisone.

Case report. Mr. A, a 25-year-old white man, experienced onset of obsessive-compulsive disorder (OCD) and bipolar disorder at age 15 and had disabling symptoms despite cognitive-behavioral therapy and treatment with many combinations of SSRIs, lithium, valproic acid, carbamazepine, risperidone, and other psychotropics. When Mr. A was free of medication for 3 weeks, lamotrigine monotherapy was started at 25 mg/day, titrated by 25 mg every 3 days for 2 weeks, and then was increased in 50-mg increments every 3 days. For the first time since the beginning of his illness, Mr. A experienced a marked diminution of OCD and stability of mood. One day after achieving a dosage of 300 mg/day, he developed a pruritic tender maculopapular rash over his face, chest, and legs without mucosal involvement. Palms and soles were spared, and a punch biopsy revealed chronic dermatitis with a prominent perivascular lymphocytic infiltrate. The drug was stopped, and rapid resolution of the rash occurred.

An allergist rechallenged the patient with lamotrigine starting at 5 mg/day and increasing in 5- to 10-mg increments every 3 days for 3 weeks, and then in 25-mg increments. After 7 weeks, Mr. A’s dose was increased from 275 mg/day to 300 mg/day, and again a morbilliform rash developed. The dose was dropped to 150 mg/day and prednisone 20 mg/day was added, but the rash persisted for 2 more weeks, and both medications were stopped.

While a slower initial or rechallenge titration rate might have permitted this patient to tolerate lamotrigine, the addition of prednisone did not assist in lamotrigine toleration.

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Problems With Switching Rapidly From One MAOI to Another

Sir: Szuba et al.1 described relatively trouble-free outcomes in 8 patients switched rapidly from one MAOI to another MAOI. They were appropriately cautious about advocating such a treatment strategy, although their review uncovered only two prior case reports of difficulties with a rapid switch.2 However, the literature does contain at least 4 additional cases in which a rapid switch was poorly tolerated.3,4 One patient suffered a cerebral hemorrhage,5 and one died.6 It is unlikely that controlled clinical trials will be conducted to more firmly establish the benefits and risks of switching rapidly from one MAOI to another. Based on available data, it is difficult to conceive of a situation in which an appropriate washout would not be indicated when switching from one MAOI to another.

REFERENCES

2. Gelenberg AJ. Switching MAOIs. Biological Therapies in Psychiatry 1984;7:33,36

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