Although combining antidepressant

20 hours per week" as the employment outcome (2). At the 10-year follow-up, using a new measure of recovery chosen before data collection and on the basis of recent developments in the field, we looked only at full-time employment. This is a stricter measure and was significantly higher for early detection patients. However, nonrecovered patients had poor working capacity both in early and usual-detection areas, both at 5 and 10 years.

Third, Dr. Amos addresses the finding that more patients from the usual-detection area were living independently. However, living independently is a necessary but not sufficient element in recovery. In fact, as reported in our 10-year follow-up in the April issue, only 17.9% of the patients living independently in the usual-detection area were fully recovered with both symptom remission and full-time employment, compared with 48.4% for early-detection patients. This seems to indicate that living independently does not automatically imply better health and function.

All in all, as we have noted elsewhere (3), we agree that early detection cannot and should not be presented as a "cure for all." Nevertheless, our data show that early detection does seem to have long-standing positive associations with outcome measures for a large group of patients, and it improves the chances of recovery. However, for a considerable group of patients, we were not able to demonstrate a longterm effect.

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Bilateral Pallidal Necrosis and Cardiac Toxicity in a Patient With Venlafaxine and Bupropion Overdose

TO THE EDITOR: The new generation of antidepressants is generally thought to be safer than traditional antidepressants.

Although combining antidepressants is recommended for the treatment of refractory depression, the toxicity of drug overdose from more than one antidepressant is seldom addressed.

LETTERS TO THE EDITOR

Case Report

A 30-year-old woman was sent to the emergency department 1 hour after ingesting venlafaxine and bupropion in a suicide attempt. The exact dose was uncertain, but according to the metabolites of venlafaxine, bupropion, and benzodiazepine found in her urine, it is probable that she consumed a 1-month prescription of 150 mg venlafaxine, 300 mg bupropion, and 3 mg lorazepam that was prescribed 3 days earlier.

She had clear consciousness initially, but generalized myoclonus soon occurred. A fever (40.6°C) and tachycardia (100–170 bpm) developed with normal blood pressure (122/91 mmHg), respiratory rate (16/min), and O_2 saturation (SpO₂=95%). An ECG demonstrated prolonged QRS complex with a deep, slurred S wave on lead I and an R wave on lead aVR. Sodium bicarbonate was then administrated.

One hour later, the patient became drowsy and confused and she suffered respiratory distress. Her blood pressure decreased (94/36 mmHg), tachycardia increased (200 bpm), and SpO₂ decreased (49%). Endotracheal intubation was performed within 5 minutes, and her SpO₂ and blood pressure returned to normal. After sodium bicarbonate treatment, the patient recovered from the changes seen on the ECG. However, leukocytosis (10.27×10⁹/L), elevated creatine kinase (520 U/L) and creatinin (1.5 mg/dL) levels, and changes in vital signs suggested serotonin syndrome. Cyprohepadine was provided with supportive treatment; intravenous lorazepam was also given continuously for agitated behavior. Fever and disturbed consciousness ameliorated within 2 days, but creatine kinase and alanine transaminase levels continued to increase, peaking at 107,895 U/L and 2,453 U/L around 43 and 102 hours, respectively, after overdose. The patient was extubated 7 days later.

One week after extubation, purposeful involuntary movement and akathisia were noted after discontinuing lorazepam. Suspecting benzodiazepine withdrawal, lorazepam was resumed with pramipexole, 0.75mg/day, until the akathisia subsided 2 weeks later. The choreoathetosis remained, with frontal releasing signs (i.e., Luria test, glabellar reflex) and impaired recent memory, language, and executive function. An MRI scan revealed bilateral pallidal necrosis 7 weeks after admission (Figure 1 and Figure 2).

Discussion

A limited number of reports of antidepressant overdoserelated bilateral pallidal necrosis have been published. Szólics et al. (1) reported similar pallidal necrosis with multiple functional changes and extrapyramidal symptoms after fluoxetine overdose, implying a complex relationship between serotonin and the nigrastriatal dopaminergic system. The bilateral pallidal necrosis in our patient could have been caused by transient hypoxia, but the toxicity of venlafaxine and/or bupropion could not be excluded. It is therefore worth being cautious when prescribing venlafaxine concomitantly with bupropion for patients at high risk of deliberate FIGURE 1. T_1 -Weighted MRI Showing Mixed Hypointensity and Hyperintensity in the Globus Pallidus Bilaterally



overdose. Furthermore, neuroimaging is recommended for patients with prolonged extrapyramidal symptoms and cognitive change after serotonin syndrome or antidepressant overdose.

Reference

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