sant medications are preferred to benzodiazepines as a first-line of treatment for anxiety disorders in the elderly. Psychotherapy, particularly cognitive behavior therapy, is often effective in these disorders as well.

We reviewed symptoms of three cases in which onset of anxiety symptoms developed after age 60 as a result of having a medical procedure. They were highly functioning individuals and anxiety symptoms led to impairment of their social and occupational life. They were all successfully treated with selective serotonin reuptake inhibitor medications without any side effects and achieved the overall level of functioning.

The first case was a 61-year-old male who was working in graphic art. He developed severe neck pains and a magnetic resonance imaging scan (MRI) of cervical spines was recommended. After having the MRI, he developed recurrent unexpected panic attacks and anxiety about being in a closed place. Commuting to work caused marked distress and he subsequently avoided traveling in a bus, train, or car, and his daily activities were restricted. He initially refused to consider any medications that might limit his creativity. He agreed to a trial of sertraline, 50 mg/day, which was increased gradually to 100 mg. He showed significant symptom response on paroxetine, 40 mg/day.

Nahla A. Mahgoub, M.D. Psychiatry, Weill Medical College of Cornell University, New York

Jahandar Saiifollahi, M.D.
Melinda Lantz, M.D.
Geriatric Psychiatry, Beth Israel Medical Center, New York

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Aripiprazole Diminishes Cannabis Use in Schizophrenia

To the Editor: Aripiprazole is the first partial agonist dopaminergic D2 with clear antipsychotic effect. Many schizophrenic patients will develop comorbid substance abuse. Cannabis consumption may worsen psychotic symptoms of schizophrenic patients.

We describe the case of a schizophrenic patient whose use of cannabis and related problems disappeared after treatment with aripiprazole.

Mr. A, a 33-year-old Caucasian patient with schizophrenia, has since his mid-20s been treated with olanzapine, 20 mg/day, and escitalopram, 10 mg/day. He did reasonably well with this regimen but was apragmatic. He frequently used cannabis every day (urine screen for tetrahydrocannabinol [THC] was positive). He was moderately obese (BMI: 28) but had no other medical problems. He lived in a community house, in which nurses ensured that he was compliant with treatment. His Brief Psychiatric Rating Scale (BPRS) score was 52. Before his mid-20s, the patient was treated successively for different classic antipsychotic conditions (i.e., haloperidol, bromperidol, and pimozide) and he reported increased cannabis abuse concomitant with these regimens.

Aripiprazole, 15 mg/day, was added to his treatment regimen. After 1 week, the olanzapine dose was decreased to 10 mg. One week later, olanzapine was discontinued. After 5 weeks, escitalopram treatment was discontinued because the pa-
tient was euthymic. Three months later, the patient signaled he felt very good and did not need cannabis anymore. After 12 months of treatment with aripiprazole the patient had not relapsed and did not use cannabis at all (urine screen did not reveal any THC). Moreover, his BMI was 24 and BPRS score decreased to 40.

This case report highlights different proposals about mechanism of action and side effects.

First, the concurrence of the diminution of cannabis consumption with the patient’s treatment with aripiprazole suggests that aripiprazole contributed to the occurrence of this diminution. Different mechanisms may have played a part, such as aripiprazole’s partial agonism at dopamine D2 receptors. A similar observation was made with cocaine dependence. Dopamine stimulation in the nucleus accumbens has been suggested to cause addictive behavior and aripiprazole’s partial dopamine agonist effect in this area may reduce this behavior. In addition, aripiprazole has a number of serotonergic actions that are not related to dopamine potentially modulating the response to THC. Other mechanisms may be involved and Mr. A’s rapid cessation of cannabis use after starting aripiprazole suggests the need to verify these mechanisms systematically and to plan controlled trials.

Second, several factors have to be considered when regarding why there may be a concomitant increase in substance abuse with the older antipsychotics. It was suggested that a strong antagonist effect at the dopamine D2 receptors in the nucleus accumbens was involved in concomitant increase in substance abuse with old antipsychotics. Moreover, unrelated to dopaminergic mechanisms, the use of certain antipsychotics with substantial side effects by schizophrenia patients may actually contribute to greater substance use in an effort to self-medicate the side effects.

Finally, there could be at least two explanations for the weight loss. The reduction of cannabis use may have contributed to a reduction in eating, and the switch in the antipsychotic to aripiprazole may have been instrumental in such a significant weight reduction, since aripiprazole is weight neutral and olanzapine is known to facilitate weight gain in patients.

To our knowledge, this is the first reported case of aripiprazole’s effect on cannabis use. More research is needed to establish the benefits of aripiprazole in regard to cannabis. Some dual diagnosis patients may benefit from aripiprazole, which may reduce craving for and use of cannabis.

Martin Desseilles, M.D.
Department of Psychiatry, University of Liège, Belgium
Fernand Mathot, Pharm.D.
Michel Desseilles, M.D.
Psychiatric Hospital Centre “Le Petit-Bourgogne,” Liège, Belgium

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Clinical Correlates of Personality Changes Associated With Traumatic Brain Injury

To the Editor: Traumatic brain injury (TBI) is frequently complicated by alterations in temperament and character that have adverse consequences for day-to-day living, manifesting as poor decision-making, interpersonal problems, communication problems, and often overall poor quality of life. Max et al. have reported extensively on the correlates and predictors of personality changes after traumatic brain injury in children, but there is scant mention in the literature on adults. In this report, we describe the results of a preliminary study of the clinical correlates of personality change following traumatic brain injury in adults.

Analysis
Data are from a retrospective chart review of 54 subjects with closed head injury enrolled in an outpatient neuropsychiatry brain injury clinic. Patients with depressed skull fractures were excluded.

Every patient was evaluated and followed by a clinic psychiatrist. The assignment of personality change due to a general medical condition (TBI) diagnosis was based

Brain Injury