Communique

Treatment of Pica Behavior with Olanzapine

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Pica behavior, the ingestion of items not generally recognized as food, is a diverse syndrome with multiple possible etiologies. Explanations of its pathogenesis include seeking trace mineral supplementation, psychosis, and purposeful self-injury.1 Associated conditions include iron-deficiency anemia, pregnancy, malnutrition, and chronic renal insufficiency. Pica behavior shares features similar to bulimia, trichophagia, and obsessive-compulsive disorder.2,3 The neural basis is unknown, although brains levels of neuropeptide Y and opiates may mediate appetite, and intra-ventricular administration of neuropeptide Y induces pica in rats.4 Treatment of has focused mainly on behavioral approaches to single aspects, such as cigarette pica.1 Selective serotonin reuptake inhibitors (SSRIs) may help some individuals.2 In this report, a case of an autistic adult with severe pica behavior responded dramatically to olanzapine.

CASE DESCRIPTION

A 42-year-old woman with severe mental retardation, autism, and seizure disorder was residing in a group home. She had a long history of pica behavior, involving cigarette butts, socks, pieces of cloth, and many small objects. On examination, she was nonverbal and had severe stereotypies including rocking and repetitive grunting. Cranial nerve, motor, and gait exams were unremarkable. She began treatment with the SSRI fluvoxamine with no effect on this behavior. She was then started on olanzapine 2.5 mg/day, with a marked reduction in pica behavior noted by caregivers. This response has been maintained for over 36 months. The remainder of her behavioral syndrome was unchanged by these medications.

DISCUSSION

The concept of pica as a survival instinct related to trace mineral nutritional deficiency is only applicable in populations where this is an issue. Otherwise, additional conceptualizations are required.

REFERENCES


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