

Case Report

ZOLPIDEM WITHDRAWAL SYMPTOMS IN SCHIZOPHRENIA – A CASE REPORT

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Abstract

Background: Substance abuse and dependence are common psychiatric co-morbidities in schizophrenia. Many cases of withdrawal symptoms with high doses of zolpidem dependence were reported in mood or anxiety disorders. Here, we present a case of zolpidem withdrawal in a schizophrenia patient. **Case report:** A 51-year-old male diagnosed with paranoid schizophrenia presented with restlessness, headache, threatening violence, and craving for zolpidem within about two hours of stopping the drug. Zolpidem was prescribed for insomnia. He developed dependence and experienced withdrawal symptoms even with a one-hour delay in getting zolpidem. It was successfully treated with 1mg of clonazepam. **Discussion:** Schizophrenic patients often abuse zolpidem leading to dependence and withdrawal when prescribed for insomnia. Severe withdrawal symptoms can occur with a lower dose of zolpidem. Zolpidem withdrawal can be treated with benzodiazepines like clonazepam.

Keywords: Zolpidem Withdrawal, Zolpidem Dependence, Schizophrenia.

INTRODUCTION

Zolpidem is a short-acting imidazopyridine hypnotic drug unrelated to benzodiazepines. Initially, zolpidem was reported to have low abuse potential and was considered an effective treatment for insomnia.¹ But later, zolpidem was found to cause dependence, abuse, and withdrawal symptoms.^{2, 3} Risk of dependence may increase with dose and duration of treatment.⁴ Insomnia is commonly reported in many psychiatric disorders for which psychiatrists prescribe different sedative hypnotics.⁵ Substance use disorders are common in patients with psychotic disorders.^{6,7} Many cases of zolpidem dependence have been reported in different psychiatric disorders like bipolar and anxiety disorders.⁸ Substance abuse or dependence was often found to be a comorbid disorder in

many schizophrenic patients, but no literature reporting zolpidem dependence or withdrawal in patients with schizophrenia was found.⁹ Hence, we present a case of zolpidem withdrawal in a schizophrenia patient.

CASE REPORT

A 51-year-old, married but separated, degree dropout, presented with complaints of irritability, discomfort in the head, and generalized uneasiness and restlessness, assaultive and destructive behaviors of 4 hours duration. He had a 31-year history of paranoid schizophrenia and was on treatment. He was unemployed and belonged to a lower-income family hailing from a rural background. There was a history of using zolpidem for the past seven months.



Access the article online:
<https://kjonline.com/index.php/kjp/article/view/468>
 doi:10.30834/KJP.37.2.2024.468.
 Received on: 24/08/2024 Accepted on:
 05/12/2024 Web Published:06 /12/2024

Please cite the article as Ayirolimeethal A, Nilavarayath A, Ravikumar N, Cherukunnath P. Zolpidem Withdrawal Symptoms in Schizophrenia – A Case Report. Kerala Journal of Psychiatry 2024; 37(2): 132-135.

Zolpidem was prescribed for insomnia along with his antipsychotic medications. His medications were unsupervised, and he was poorly compliant. He was prescribed 5mg of zolpidem at night. Initially, he took zolpidem as prescribed. But 3 months later, he increased the dose to 5mg twice a day by himself and later to three times daily. Within another two months, he was found to be taking it 4 times a day, sometimes demanding more tablets. Whenever there was a delay of about 1 to 2 hours in taking zolpidem or he was deprived of zolpidem, he became irritable and often abusive or assaultive towards his mother, demanding the drug. He assaulted and even threatened to kill his mother if zolpidem was not given. He was brought for admission when his mother could not meet his demand for zolpidem, and his violence became uncontrollable. At the time of admission, he was taking 20 mg of zolpidem per day, along with 100 mg each of amisulpride and clozapine.

There was a past history of alcohol dependence for about eight years, but he was abstinent for two years. Tobacco dependence was present, from which he was abstinent for the past eight months. A family history of alcohol and tobacco dependence was present in his father.

On examination, he was restless and agitated. No hallucinatory behavior, catatonic features, or abnormal involuntary movements were observed. He was cooperative but was demanding zolpidem and threatening violence. A severe craving for zolpidem was reported. Thought revealed persecutory delusions and loosening of association. The mood was irritable. He denied any hallucinations. Higher cognitive functions were normal, with impaired judgment and no insight. Blood pressure was 140/100 mmHg and pulse rate was 100/minute. Other physical examinations were within normal limits. Hematological investigations, including a complete hemogram, serum electrolytes, and

blood sugar, were normal. His liver, renal, and thyroid function tests and lipid profile were also within normal limits.

A dual diagnosis of schizophrenia and zolpidem withdrawal state was made based on the International classification of diseases -10. He was started on clonazepam 0.75 mg on the day of admission, which was hiked to 1mg in divided doses as his symptoms, including craving, persisted. Withdrawal symptoms subsided with 1mg of clonazepam, which was later tapered off and stopped in a week. Blood pressure became normal. Clozapine 100mg was continued, but amisulpride was reduced and stopped during this period. Later, he was started on fluphenazine depot, considering poor oral compliance. The schizophrenic symptoms were also reduced, and he was discharged by the end of the second week of admission. Informed consent from the patient was obtained for publishing this report.

DISCUSSION

Zolpidem was considered as a safe drug with a less potential for dependence.¹ However, zolpidem abuse and dependence were reported in those with insomnia or illnesses like anxiety and mood disorders.^{2,3} To the best of our knowledge, there are no reports showing zolpidem dependence or withdrawal in patients with schizophrenia. Hence, we believe this is the first report of such a nature. According to earlier researchers, zolpidem-dependent patients were found to have a current or past history of abuse or dependence on other substances like alcohol.^{2,3} This patient also had a past history of alcohol and tobacco dependence. Symptoms such as aggressive behavior, restlessness, irritability, insomnia, etc., were reported in patients with zolpidem withdrawal.^{8,10} Similar to an earlier report, our patient also developed zolpidem dependence in a very short time.⁸ However, previous research reported withdrawal symptoms

in those abusing very high doses of zolpidem, and in many, abuse was of long duration and ranged from 100mg to 6000mg per day.^{8,10,11} Contrast to the earlier reports, this patient developed dependence and severe withdrawal with a very low dose (20mg) which we consider as unique to this case.¹² Our patient also reported getting some courage with zolpidem, which he did not get with clozapine or amisulpride. Getting a high or reduction in anxiety with zolpidem was also reported in other cases.^{8,10} Similar to this case, earlier research also revealed successful treatment of zolpidem withdrawal using clonazepam.⁴ However, this case required a maximum of 1mg of clonazepam only for managing zolpidem withdrawal symptoms compared to a higher dose of clonazepam or other drugs in previous reports.^{4,13} This could be probably due to our patient's short duration and low dose dependence.

In conclusion, zolpidem, though a non-benzodiazepine drug, can lead to abuse and dependence irrespective of the psychiatric diagnosis. Dependence and severe withdrawal symptoms can develop with a dose as low as 20mg per day. Symptoms of zolpidem withdrawal in patients with schizophrenia can be mistaken for exacerbation of psychotic symptoms. Judicious prescription of zolpidem and early recognition of its abuse can prevent its dependence and complications related to withdrawal.

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