Opinion Article

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Schizophrenia Management Using Antipsychotic Medications

Victoria Shier*

Department of Psychiatry, St Vincent's University Hospital, Dublin, Ireland

Corresponding author: Victoria Shier, Department of Psychiatry, St Vincent's University Hospital, Dublin, Ireland, E-mail: Shier_v@svuh.edu

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Description

Antipsychotic medications are a cornerstone in the treatment of various psychiatric disorders, including schizophrenia, bipolar disorder and severe depression. These drugs help manage symptoms such as hallucinations, delusions and agitation and are for improving the quality of life for many individuals with serious mental health conditions.

Types of antipsychotic medications

Typical (first-generation) and atypical (second-generation). Typical antipsychotic medications, developed in the 1950s. These drugs primarily target dopamine D2 receptors in the brain. By blocking these receptors, typical antipsychotics can help reduce symptoms of psychosis. However, they are often associated with a range of side effects, including Extrapyramidal Symptoms (EPS) such as tremors, rigidity and bradykinesia, which resemble parkinson's disease symptoms. Other side effects include tardive dyskinesia a condition characterized by involuntary, repetitive movements.

Often used for severe agitation or psychosis, but can cause significant EPS. One of the first antipsychotics, it is used for a variety of psychotic disorders and can cause sedation and weight gain. Atypical antipsychotics, introduced in the 1990s, are the second generation of antipsychotic medications. They not only target dopamine receptors but also affect serotonin receptors. This broader mechanism of action helps manages a wider range of symptoms and is associated with a lower risk of EPS. However, atypical antipsychotics can still cause side effects, such as metabolic syndrome, which includes weight gain, diabetes and dyslipidaemia.

Effective for both positive and negative symptoms of schizophrenia and bipolar disorder, but can lead to weight gain and metabolic issues. Known for its efficacy in treating acute psychosis and bipolar disorder, but also associated with significant weight gain and risk of diabetes. A partial dopamine agonist that offers a lower risk of EPS and metabolic side effects. Antipsychotics work primarily by modulating neurotransmitter systems in the brain. Dopamine, a key neurotransmitter involved psychotic disorders. Typical antipsychotics mainly block dopamine D2 receptors, which helps alleviate symptoms of psychosis. Atypical antipsychotics have a more complex mechanism, affecting both dopamine and serotonin receptors. This dual action can help address a broader range of symptoms and potentially reduce the risk of some side effects.

More common with typical antipsychotics, these include potentially irreversible movements, often associated with long-term use of typical antipsychotics. More commonly associated with atypical antipsychotics, this includes weight gain, increased blood sugar levels and lipid abnormalities. Some antipsychotics can cause sedation, drowsiness and cognitive impairment, which can affect daily functioning. Choosing the right antipsychotic medication depends on several factors, including the specific disorder being treated, the patient's medical history,and their response to previous treatments. Clinicians often consider both the efficacy of the medication and its side effect profile when making treatment decisions. Monitoring for side effects and adjusting the dosage as needed to managing these medications effectively.

Antipsychotic medications play a critical role in managing serious and improving patients' quality of life. While both typical and atypical antipsychotics have their advantages and potential drawbacks, ongoing research and development continue to improve these treatments, aiming to provide better efficacy with fewer side effects. For individuals struggling with conditions such as schizophrenia or bipolar disorder, antipsychotic medications remain an essential part of comprehensive care.