**Objective**

To examine the rates of antipsychotic drug use in British Columbia among individuals aged 20 and above.

**Data**

Anonymized prescription data extracted from the province’s centralized database system (BC PharmaNet) containing all prescription drugs filled outside hospitals in British Columbia.

**Definitions**

Antipsychotic drugs - prescription drugs used to treat the clinical symptoms of schizophrenia, schizoaffective and bipolar disorders. They are also used off-label to treat other conditions (i.e. behavioural and psychological symptoms of dementia, vomiting and nausea). Known adverse effects of antipsychotics include sedation, movement disorders, heart problems, weight gain and diabetes. Recently, atypical antipsychotics were reported to increase risk for metabolic and cerebrovascular adverse events.

One-year prevalence - the total number of individuals who filled at least one prescription for an antipsychotic drug in a given year divided by population estimates obtained from BC Stats.

**Key Findings**

- Antipsychotic drug use increased from 13.5 per thousand in 1997-98 to 25 per thousand in 2005-06, an 85% increase.
- The increase in rates is driven by the higher use of atypical antipsychotics.
- Remarkably higher rates of use are found among older age groups, particularly those who are 75 and above.
- Women tend to have disproportionately higher rates of use.
- The rate of increase in the use of atypical antipsychotics among older patients appeared to have slowed down in 2003-04.

**Implications**

- Lower prevalence of schizophrenic and bipolar disorders as well as higher prevalence of dementia among the elderly suggest that the increase in the use of atypical antipsychotics is caused largely by off-label use of antipsychotic drugs in this age group.
- In light of recent studies showing that the use of atypical antipsychotics for managing dementia-related symptoms provide modest benefits only and that the risks (i.e. cerebrovascular adverse events, mortality, upper respiratory infections) may offset health benefits, it is important that care providers, patients and family members carefully weigh the risks and benefits of using atypical antipsychotics on elderly patients with dementia.
- Over the past few years, the use of atypical antipsychotics among the elderly appears to be decreasing. Health warnings issued by drug companies and Health Canada between the years of 2002 and 2005 may have facilitated this change in the trend.

**References**


**Researchers**

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