QUESTION

Question: Does both essential and potentially inappropriate use of antipsychotics vary across income groups?

Population: Essential antipsychotic use was assessed in 11,417 adults (aged 19–64 years, 60% men, 34% urban) with a diagnosis of schizophrenia (international classification of diseases (ICD-9), ICD-10; 27% hospitalised for schizophrenia). Potentially inappropriate use of antipsychotics was assessed in 33,633 older adults (aged 65 years and older, 60% women; 23% in long-term care facilities) with dementia (DSM-IV) and no diagnosis of schizophrenia or bipolar disorder. People living in British Columbia (BC) for less than 9 months were excluded, as were people with incomplete data, or living in areas with a high proportion of non-fee for service claims.


Assessment: Physician and hospital diagnostic records were searched for people with diagnoses of schizophrenia and dementia in 2004 or 2005. Hospitalisation for schizophrenia was taken as a crude measure of severity. Data on filled prescriptions for antipsychotics in 2005 were obtained from the PharmaNet database of prescriptions filled in community pharmacies in BC. For 83% of the sample, income quintile was derived from the BC Ministry of Health Services which records income data for people registered with the income-based drug benefit programme. For the remaining 17%, average household tax returns from census dissemination areas (400–700 people) were used. Overall health status was assessed using Aggregated Diagnostic Groupings (ADGs). Sex, age and urban or non-urban residence status was recorded. Income-related disparities in antipsychotic use were assessed using multivariable logistic regression analyses (adjusted for age, gender, health status, residence and hospitalisation for schizophrenia if relevant). The highest income quintile was used as the reference group for calculation of ORs.

Puyat and colleagues examine the relationship between antipsychotic use and household income among community-dwelling and institutionalised patients. Based on analyses of linked health, pharmaceutical use and income data from British Columbia from 2004 to 2005, they found income-related differences in essential antipsychotic use for schizophrenia or bipolar disorder, and inappropriate antipsychotic use among community-dwelling older adults. In both cases, low-income individuals were at higher risk of poorer prescribing. Given the paucity of data regarding income-related effects on inappropriate medication use, this data will likely receive attention. However, these provocative findings should be interpreted in proper context. First, the authors estimate antipsychotic prescribing in long-term care to be 56%, a finding that is not replicated in the literature. A point-prevalence study of Ontario nursing homes reported that 32.4% of residents received antipsychotics in 2003.1 Most published studies report similar findings. Second, Mor et al2 report that low resource nursing homes serve predominantly poor communities and have higher levels of antipsychotic use. Complicated interactions between community poverty and healthcare facility resources likely explain much of the relationship between prescribing and household income in community mental health and primary care clinics as well. These factors are also likely to be related to ‘prescribing cultures’,3 institutional forces that drive prescribing, independent of clinical appropriateness. This phenomenon defines the patient risk factor as exposure to healthcare facilities with high levels of inappropriate prescribing. While primarily described in long-term care, this phenomenon likely exists in community care settings as well. Taken together, complex relationships between household income, community poverty and healthcare facility resources likely contribute to inappropriate care. Improvements in prescribing need to focus beyond payment and public medication coverage to also address the context of care available to impoverished patients.

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REFERENCES

Potentially inappropriate use of antipsychotics in community-dwelling adults with dementia more common in those with low income

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