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Evaluation of Concurrent Medications Pre- and Post Initiation of Long-Acting Injectable Antipsychotic Therapy

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EVALUATION OF CONCURRENT MEDICATIONS PRE- AND POST INITIATION OF LONG-ACTING INJECTABLE ANTIPSYCHOTIC THERAPY

Lindsay Pokallus, PharmD; Laurence Karper, MD; Jessica Price, PharmD, BCPS • LEHIGH VALLEY HEALTH NETWORK • ALLENTOWN AND BETHLEHEM, PA

PURPOSE

Retrospectively evaluate concurrent psychotropic medications in schizophrenic patients prior to- and during long-acting injectable (LAI) antipsychotic therapy

BACKGROUND

- Approximately one percent (1%) of the adult population (2.4 million) has schizophrenia¹
- Schizophrenic patients oftentimes have multiple comorbid mental and substance-abuse issues, and other health-related comorbidities²
- Medication compliance is of immense importance in these patients^{2,3,4} - Non-adherence or partial medication compliance occurs in >50% of schizophrenic patients⁵
- Primary goals of therapy: minimize or eliminate the symptoms of schizophrenia, maximize the patients' quality of life and social functioning, maintain a level of mental stability⁶
- Meta-analysis reviewed 613 outpatient 'mirror-image' studies⁷
- Assessed evidence of efficacy for oral versus LAI antipsychotic medications⁷ - Hospitalization days for patients taking LAI antipsychotic medications versus oral preparations: 17,860 versus 75,492 days⁷
- Relapse rates for patients using LAI antipsychotics compared to oral preparations: 30% versus 47.1% patients, statistically significant⁷

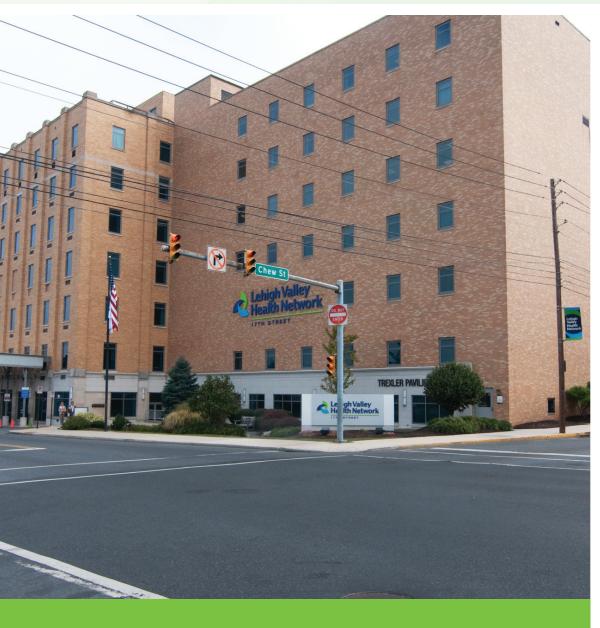






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- Olfson et al. found that patients receiving LAI preparations compared with oral antipsychotics continued to require multiple concurrent oral psychotropics⁸
- Antidepressants, anxiolytics/hypnotics, mood stabilizers, and oral antipsychotics⁸
- Shi et al. evaluated characteristics of patients taking LAI antipsychotics versus oral antipsychotics⁹
- Two-thirds of LAI antipsychotic group concurrently received more psychotropic medications compared to those on oral antipsychotics only⁹
- LAI antipsychotic group tended to be more difficult-to-treat, non-compliant and refractory to traditional oral antipsychotics⁹
- If LAI antipsychotics can decrease the number of concurrent psychotropic medications, this may increase patient compliance
- No trials directly assess the number of concurrent psychotropic medications prior to- and during LAI antipsychotic therapy

STUDY DESIGN

- Retrospective chart review
- Inclusion criteria:
- Patients prescribed LAI antipsychotic (fluphenazine decanoate, haloperidol decanoate, paliperidone palmitate, and long-acting risperidone) for a minimum period of 180 days for schizophrenia
- Patients who received LAI antipsychotic between January 2004 and July 2010
- The primary outcome of the study will be the number of concurrent psychotropic medications prior to LAI antipsychotic therapy, and during LAI antipsychotic treatment
- The secondary outcome will be patient relapse rates prior to LAI antipsychotic therapy, and during LAI antipsychotic treatment

METHODS

- and 180 days during LAI antipsychotic treatment
- Relapse rate will be examined, as indicated by number of emergency room visits, hospitalizations and admissions for a schizophrenic episode
- Psychotropic medications: any medication used to treat symptoms of a mental disorder, including schizophrenia, depression, bipolar disorder, anxiety disorders, and attention deficit-hyperactivity disorder (ADHD)

Other patient data to be collected includes:

- Age, gender, weight, renal function
- failed medications

- (including acute illness, trauma, illicit drug use)

Following data collection, the number of concurrent psychotropic medications and relapse rates will be compared

DISCLOSURE

Authors of the presentation have the following to disclose concerning possible financial or personal relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation Lindsay Pokallus – nothing to disclose

Laurence Karper – nothing to disclose

Jessica Price – nothing to disclose

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Chart review evaluating number of concurrent psychotropic medications and relapse rates prior to- and during LAI antipsychotic treatment

- Number of concurrent psychotropic medications will be tallied for 180 days prior to-

- Patient comorbidities, age and date of schizophrenia diagnosis, previously documented

– Dates and durations of admissions for schizophrenia exacerbations – Patient Diagnostic and Statistical Manual of Mental Disorders (DSM-IV-TR) information for diagnosis, Positive and Negative Syndrome Scale (PANSS) symptoms

- Factors that may have contributed to acute episodes or mental/mood status changes

- 3) Wu EQ, Birnbaum HG, Shi L, Ball DE, Kessler RC, Moulis M, Aggarwal J. The economic burden of schizophrenia in the United States in 2002. J Clin Psychiatry. 2005 Sep;66(9):1122-9.
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¹⁾ National Institute of Mental Health [database on the Internet]. Bethesda (MD): NIMH 2010. Available from: http://www.nimh.nih.gov/health/publications/the-numbers-count-mental-disorders-in-america/index.shtml#Schizophrenia. Updated July 23, 2010.