Deutetrabenazine Reduces Severe Tardive Dyskinesia Movements in a 3-year Open-Label Extension Trial

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Abstract

Background. There are no established treatment guidelines for tardive dyskinesia (TD) based on movement severity. The 12-week ARM-TD and AIM-TD studies in TD patients with baseline Abnormal Involuntary Movement Scale (AIMS) total score (items 1–7) ≥6 showed clinically significant improvements in AIMS score with deutetrabenazine versus placebo. Patients who completed these studies were eligible for the open-label extension (OLE) trial. This post-hoc analysis evaluated deutetrabenazine in TD patients with severe movements.

Methods. Subgroups were defined by upper quartile of baseline total AIMS score (local rating). Endpoints were: change and percent change from baseline in AIMS score, and percent of patients achieving ≥50% AIMS reduction from baseline.

Results. 337 patients were analyzed. The upper quartile of baseline total AIMS score was 14. Subgroups were defined as >14 and ≤14 at baseline, respectively (n=64 vs 273); data are presented at Week 145 (n=40 vs 120). Mean treatment duration was 880.5 and 760.8 days. Mean±SE daily doses were 41.1±1.6mg and 38.9±1.0mg. Mean±SE change from baseline in AIMS score was −11.0±0.8 versus −5.1±0.3; percent change from baseline was −60.1%±3.6% versus −55.9%±3.0%. More patients with AIMS score >14 had ≥50% AIMS reduction (73% vs 65%). Less patients discontinued (38% vs 51%); reasons included withdrawal by subject (16% vs 25%), adverse event (3% vs 11%), and lost to follow-up (6% vs 7%). Withdrawal due to lack of efficacy was uncommon (5% vs 2%).

Conclusions. Patients with baseline total AIMS score >14 had clinically meaningful reductions in AIMS score, suggesting deutetrabenazine has long-term benefit in these patients.

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Qualitative Clinical Trial Exit Interviews Evaluating Treatment Benefit, Burden, and Satisfaction in Patients with Schizophrenia

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Abstract

Objective. An open-label extension study (NCT02873208) evaluated the long-term tolerability, safety, and efficacy of combination olanzapine/samidorphan (OLZ/SAM) treatment in patients with schizophrenia. This qualitative sub study explored perceptions of benefit, burden, and satisfaction with previous medications and OLZ/SAM.

Methods. Semi-structured interviews (60 minutes; audio-recorded) were conducted. Interviewer sensitivity training, senior interviewer oversight, and a list of common medications to aid recall supported data collection. Interview transcripts were content coded and analyzed (NVivo v11.0).
Disease Prevalence, Comorbid Conditions, and Medication Utilization Among Patients with Schizophrenia in the United States

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Presenting Author: Brittany Roy

**Abstract**

**Objective.** Disease prevalence, comorbid conditions, and pharmacological treatments were examined in a large population of US commercial- or Medicaid-insured individuals with schizophrenia.

**Methods.** This retrospective, cross-sectional claims analysis sourced data from the IBM MarketScan Commercial and Medicare Supplemental Databases and the Multi-state Medicaid Database (01Jan2009 to 30Jun2016). Cases were defined by =1 diagnostic claim (ICD-9-CM/ICD-10-CM) for schizophrenia during the study period. Comorbidities (=1 ICD-9-CM/ICD-10-CM diagnosis code) were grouped according to Clinical Classifications Software (CCS) level 2 categories. For the per-database analysis of comorbidities, schizophrenia cases were matched with controls by demographic characteristics. Case-control comorbidity comparisons were performed using prevalence rate ratios (PRRs) and 95% CIs. Per-database medication exposure (=1 National Drug Code in outpatients grouped by Redbook classification) was also assessed.

**Results.** Schizophrenia prevalence was 0.11% and 0.99% in commercially and Medicaid-insured patients, respectively. In both databases, comorbidity prevalence was higher among schizophrenia cases versus controls in approximately =80% of the CCS level 2 categories assessed. Common top categories of comorbidities for schizophrenia cases were mood disorders, anxiety disorders, other connective tissue disease, and diseases of the heart. Comorbidities with the highest case-control PRRs included personality disorders, suicide and intentional self-inflicted injury, and impulse control disorders. Across databases, the most commonly prescribed medications in cases were antipsychotics, antidepressants, and analgesics/antipyretics opiate agonists; the most highly prescribed antipsychotics were risperidone, quetiapine, aripiprazole, and olanzapine.

**Conclusions.** This large-scale analysis quantifies the high prevalence of medical and psychiatric comorbidity burden in patients with schizophrenia, highlighting the importance of integrated medical and psychiatric care.

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Long-Term Safety and Efficacy of Deutetrabenazine in Younger and Older Patients With Tardive Dyskinesia

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Presenting Author: Stacy Finkbeiner

**Abstract**

**Background.** Tardive dyskinesia (TD) is an involuntary movement disorder that is more prevalent in older patients. However, there is limited information on TD treatment for this population. In two 12-week pivotal trials (ARM-TD and AIM-TD), TD patients demonstrated significant improvements in Abnormal Involuntary Movement Scale (AIMS) score with deutetrabenazine versus placebo.

**Methods.** Patients who completed ARM-TD or AIM-TD enrolled in an open-label extension (OLE) study. This post hoc analysis assessed change and percent change from baseline in AIMS score, response rates for ≥50% AIMS improvement, Patient Global Impression of Change (PGIC), Clinical Global