

Methods. In the 25-week, double-blind ALPINE study, adults hospitalized for an acute exacerbation of schizophrenia were randomized to AL (AL NanoCrystal Dispersion + oral aripiprazole 30 mg day 1; AL 1064 mg day 8 and q8wk) or the active control paliperidone palmitate (PP 234 mg day 1; PP 156 mg day 8 and q4wk), discharged after 2 weeks if clinically stable, and followed through the end of the study. Adverse events, including adverse events of special interest (AESIs; extrapyramidal symptoms [identified by non-mutually exclusive standardized MedDRA queries], sedation, hypotension, injection site reactions [ISRs], suicidal ideation and behavior) were monitored throughout the study.

Results. In total, 200 patients were randomized (AL, n=99; PP, n=101); 99 patients (AL, n= 56; PP, n=43) completed the study. Rates of AESIs in AL-treated patients were akathisia, 10%; Parkinson-like events, 2%; dyskinesia, 3%; dystonia, 9%; sedation, 7%; hypotension, 6%; ISRs, 18 % (including placebo); and suicidal ideation and behavior, 2 %. In PP-treated patients, AESI rates were akathisia, 12%; Parkinson-like events, 4%; dyskinesia, 5%; dystonia, 11%; sedation, 7%; hypotension, 4%; ISRs, 27% (including placebo); and suicidal ideation and behavior, 3%.

Conclusion(s). No unexpected safety and tolerability findings were identified in patients treated with AL or PP who were hospitalized for acute schizophrenia exacerbation and transitioned to outpatient care in ALPINE. AESI profiles were consistent with each treatment's respective known safety profile.

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(-3.0 vs -1.6, P=0.019) and AIM-TD (24 mg/day, -3.2 vs -1.4, P=0.003; 36 mg/day, -3.3 vs -1.4, P=0.001). This analysis assessed Minimal Clinically Important Difference (MCID) in AIMS score in patients with TD treated with deutetrabenazine.

Methods. MCID is the smallest change from baseline in AIMS score that is meaningful for patients. MCID analyses were performed based on Patient Global Impression of Change (PGIC) and Clinical Global Impression of Change (CGIC) as anchors described by Hauser et al., where MCID is the difference between patients treated with deutetrabenazine who were minimally improved and patients treated with placebo who were unchanged. Additional MCID definitions were explored: difference between patients who demonstrated treatment improvement versus those who did not (Method 2); difference between patients who demonstrated treatment success versus those who did not (Method 3).

Results. 295 patients were analyzed. Based on PGIC, the suggested MCID was -2.8. Results were similar for Method 2 (75% of patients had treatment improvement; MCID = -2.8) and Method 3 (38% of patients had treatment success; MCID = -2.6). Based on CGIC, the suggested MCID was -2.6. Results were similar for Method 2 (76% of patients had treatment improvement; MCID = -2.8) and Method 3 (41% of patients had treatment success; MCID = -3.0). Therefore, the suggested MCID for deutetrabenazine is -3.

Conclusions. The MCID for change in AIMS score based on PGIC and CGIC for deutetrabenazine was -3 regardless of the analytical method. Findings suggest an AIMS score reduction of ~3 is associated with clinically meaningful improvement in TD symptoms.

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Minimal Clinically Important Difference in AIMS Score Based on CGIC and PGIC in Patients With Tardive Dyskinesia Treated With Deutetrabenazine

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Abstract

Background. Deutetrabenazine is FDA approved for tardive dyskinesia (TD) based on two 12-week, placebo-controlled studies evaluating safety and efficacy in patients with baseline Abnormal Involuntary Movement Scale (AIMS) score ≥ 6 . Deutetrabenazine reduced overall AIMS scores compared with placebo in ARM-TD

Effect of Deutetrabenazine on Metabolic Parameters in the Treatment of Tardive Dyskinesia

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Abstract

Background. Deutetrabenazine, a novel vesicular monoamine transporter 2 (VMAT2) inhibitor, is approved by the FDA for treatment of tardive dyskinesia (TD) in adults. Dopamine-receptor antagonists (DRAs) are associated with worsening of metabolic parameters, including weight gain, hyperlipidemia, and elevated blood glucose. This post hoc analysis assessed the short-

and long-term effects of deutetrabenazine treatment on weight and metabolic parameters in individuals treated for TD.

Methods. Two 12-week, randomized placebo-controlled trials (RCTs) of deutetrabenazine for patients with TD evaluated either fixed dosing (AIM-TD; 12, 24, or 36 mg) or dose titration (ARM-TD; max dose, 48 mg/day). Patients completing ARM-TD or AIM-TD were included in an open-label extension (OLE) study, in which all patients underwent response-driven titration of deutetrabenazine from 12 mg/day up to a maximum total dose of 48 mg/day. Weight, body mass index (BMI), serum glucose, serum total cholesterol, and serum triglycerides were evaluated at baseline and during treatment in the RCTs and in the OLE.

Results. In the RCTs, 282 and 133 patients received deutetrabenazine or placebo. At baseline, 77% of patients used DRAs. At Week 12, no meaningful changes in weight were observed, with mean (standard error) weight changes of 0.9–1.2 (0.3–0.5) and 0.2 (0.3) kg in the deutetrabenazine and placebo groups, respectively, and mean BMI changes of 0.3–0.5 (0.1–0.2) and 0.1 (0.1) kg/m². 337 patients were included in the analysis of the OLE study. No meaningful changes were observed in weight (mean change: 0.4 [0.4] kg at Week 54, –0.5 [0.6] kg at Week 106, and –1.1 [0.6] kg at Week 145) or BMI (mean change: 0.1 [0.2] kg/m² at Week 54, –0.2 [0.2] kg/m² at Week 106, and –0.3 [0.2] kg/m² at Week 145). Across the studies, no meaningful changes were observed in triglyceride, cholesterol, or glucose levels.

Conclusion. Deutetrabenazine does not affect common metabolic parameters in patients with TD, even during long-term exposure.

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Weight Gain and Treatment Interruptions with Second-Generation Oral Antipsychotics: Analysis of Patients with Schizophrenia or Bipolar I Disorder

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Abstract

Among patients with schizophrenia (SZ) and bipolar I disorder (BD-I) treated with second-generation antipsychotics (SGAs),

clinically-significant weight gain (CSWG) and treatment interruptions (TIs) are challenges that may result in morbidity/mortality. CSWG and TIs were assessed among patients who initiated oral SGAs of moderate-to-high weight gain risk (no exposure to index SGAs/first-generation antipsychotics for =12 months) using medical records/claims (OMI Data Cloud; January 2013–February 2020). Outcomes included CSWG (=7% increase in baseline weight) and TIs (switches [to SGAs of low weight gain risk/long-acting injectables] or discontinuations [no SGAs for >30 days]). Descriptive analyses included proportions of patients with CSWG and TIs, and median time to these outcomes.

Approximately three-quarters of patients were overweight/obese at baseline (SZ: N=8,174; BD-I: N=9,142). Within 3 months of SGA initiation, 12% of all patients experienced CSWG. For patients on treatment with index SGAs for >6 months (SZ: 29%; BD-I: 27%), 28% (SZ) and 30% (BD-I) experienced CSWG during follow-up. Median time to CSWG was 14 weeks. CSWG results were numerically similar among patients with SZ and BD-I.

Over 96% of patients had TIs during follow-up (median time of 12 [SZ] and 13 [BD-I] weeks). Among patients with CSWG and subsequent TIs and weight measurements, 74% did not return to baseline weight after interrupting treatment; the remainder returned to baseline weight with median times of 38 (SZ) and 39 (BD-I) weeks. Results suggest that most patients with CSWG do not return to baseline weight after stopping treatment with oral SGAs of moderate-to-high weight gain risk.

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Othello Syndrome: Delusional Disorder - Jealous Type ≠ Violence

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Abstract

Background. Othello syndrome, also known as morbid jealousy, pathological jealousy, and conjugal paranoia, is a rare delusional disorder related to partner's infidelity. There are no large scale or comprehensive studies on delusional jealousy, and only few case reports and cases series leave delusional disorder jealous type (DDJT) largely unknown. Herein, we report a case of DDJT, its possible etiology and describe its characteristics, comorbidities, and interventions.

Case Description. A 65-year-old married, retired, and disabled Caucasian male with a history of closed traumatic brain injury and chronic pain presented for outpatient care accompanied by his wife with a chief complaint of paranoid delusions. The patient was a car racer when he sustained over 25% total body surface area burns after his motor vehicle crashed at the speed of almost