Once-Daily Valbenazine Is Effective for Tardive Dyskinesia in Elderly Patients (≥65 Years)

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ABSTRACT DESCRIPTION

Older patients taking a dopamine-receptor blocking agent have increased risk for tardive dyskinesia (TD), a persistent and potentially disabling movement disorder. These analyses, being the first to assess the effects of an approved TD medication in elderly patients (≥65 years), indicate that long-term once-daily valbenazine is appropriate for this population.

INTRODUCTION

- TD is a persistent and potentially disabling movement disorder associated with prolonged exposure to antipsychotics and other dopamine-receptor blocking agents (DRBAs)1
- Compared to younger adults, older adults (≥55 years) have a higher risk of developing TD after a shorter duration of DRBA treatment²
- Valbenazine, a highly selective vesicular monoamine transporter 2 (VMAT2) inhibitor, is the only approved TD medication with once-daily dosing and enough clinical trial data to specifically indicate no required dosing adjustments in elderly patients (≥65 years)³
- To date, no results have been reported for the effects of VMAT2 inhibitors on TD in elderly patients using the more conventional threshold of 65 years
- Therefore, data from 2 long-term trials of valbenazine were analyzed post hoc to evaluate treatment outcomes in elderly study participants (≥65 years) versus a younger cohort (<65 years)

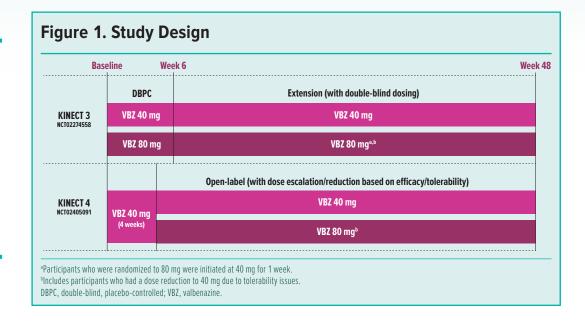
OBJECTIVES

- Understand the increased risk for TD in older patients taking antipsychotics or
- Describe results from the first analyses to assess the effects of an approved medication (valbenazine) on TD in elderly patients (≥65 years)
- Apply the substantial and clinically meaningful improvements found in this analysis to the real-world management of TD in elderly patients

METHODS

STUDY DESIGN

- Participants in KINECT 3 and KINECT 4 received up to 48 weeks of once-daily treatment with valbenazine 40 mg or 80 mg (**Figure 1**)
- All valbenazine dose groups were pooled for this analysis; participants who initially received placebo in KINECT 3 were excluded



PARTICIPANTS

- Key inclusion criteria:
- Diagnostic and Statistical Manual of Mental Disorders (e.g., DSM-IV) diagnosis of schizophrenia, schizoaffective disorder, or mood disorder and psychiatrically stable prior to study entry (e.g., Brief Psychiatric Rating Scale score < 50 at screening)
- DSM-IV diagnosis of neuroleptic-induced TD for ≥3 months prior to screening
- Moderate or severe TD as qualitatively assessed by an external reviewer at screening; no threshold for Abnormal Involuntary Movement Scale (AIMS) total score (sum of items 1-7) was required at baseline
- Key exclusion criteria:
- Active, clinically significant, and unstable medical condition within 1 month prior to screening
- Comorbid movement disorder more prominent than TD
- Significant risk for active suicidal ideation, suicidal behavior, or violent behavior
- Stable doses of concomitant medications to treat psychiatric disorders were permitted

ANALYSES

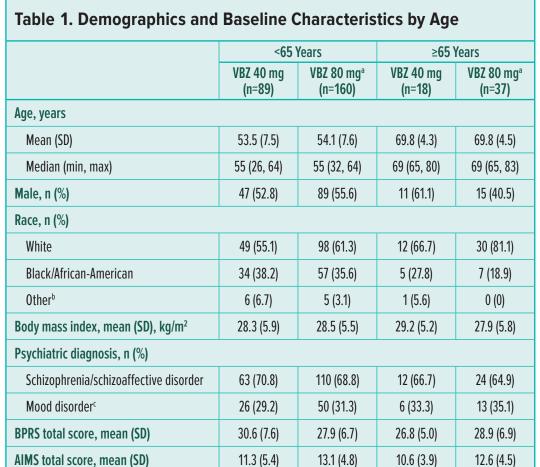
- Analyses were conducted in participants who received ≥1 dose of study drug and had ≥1 post-baseline efficacy assessment
- Mean change from baseline in AIMS total score was assessed at Week 48
- Response was also assessed at the following thresholds:
- AIMS total score: ≥30% improvement from baseline ("clinically meaningful" response) or ≥50% improvement from baseline ("protocol-defined" response)
- Clinical Global Impression of Change-Tardive Dyskinesia (CGI-TD): score ≤2 ("much improved" or better) or score ≤3 ("minimally improved" or better)
- Patient Global Impression of Change (PGIC): score ≤2 ("much improved" or better) or score ≤3 ("minimally improved" or better)

■ Treatment-emergent adverse events (TEAEs), serious TEAEs, and TEAEs

- leading to study discontinuation were summarized All outcomes were analyzed for comparison between age subgroups
- (≥65 years vs <65 years)

RESULTS

Demographics and baseline characteristics are presented in Table 1

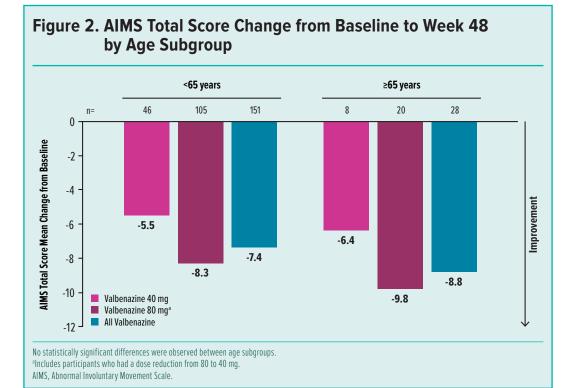


AIMS, Abnormal Involuntary Movement Scale; BPRS, Brief Psychiatric Rating Scale; SD, standard deviation; VBZ, valbenazine Substantial mean improvements from baseline in AIMS total score were found at Week 48 (end of treatment), with no statistically significant differences

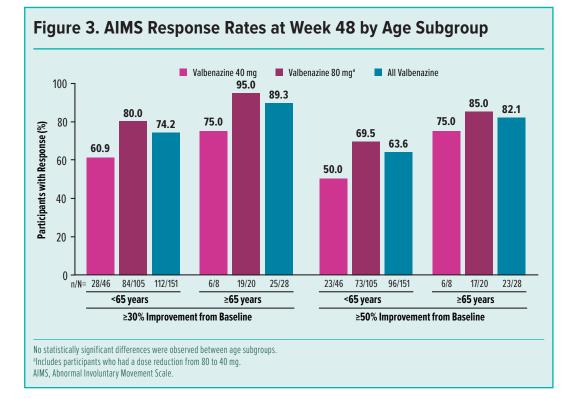
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between the age subgroups (**Figure 2**)

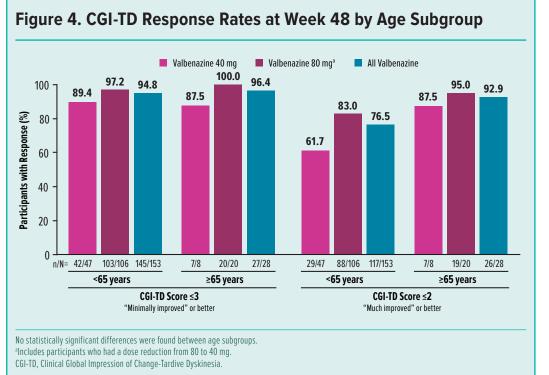
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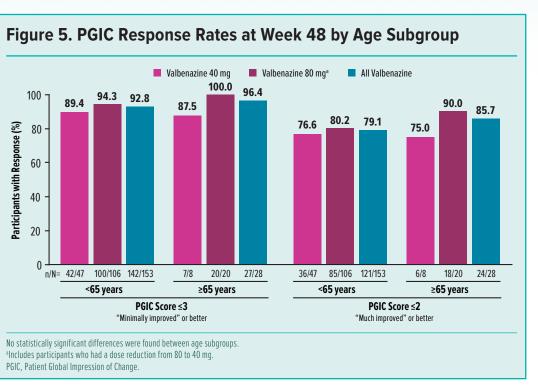


■ High rates of clinically meaningful AIMS response (≥30% total score improvement) and the more robust, protocol-defined AIMS response (≥50% total score improvement) were found at Week 48, with no statistically significant differences between age subgroups (Figure 3)



- Both subgroups also had high rates of clinician- and patient-reported improvement (CGI-TD and PGIC response) at Week 48, which trended in the same direction (**Figures 4 and 5**)
- >90% of participants in both subgroups had a global rating of "minimally improved" or better (CGI-TD or PGIC score ≤3)
- >75% achieved a stricter global rating of "much improved" or better (CGI-TD or PGIC score ≤2)





No statistically significant differences between age subgroups were found for overall TEAEs (<65 years, 71.5%; ≥65 years, 72.7%) or serious TEAEs (<65 years, 16.5%; ≥65 years, 18.2%); however, discontinuations due to TEAEs were more common in elderly participants (<65 years, 13.3%; ≥65 years, 25.5%; *P*<0.05)

CONCLUSIONS

- These analyses, based on data pooled from 2 long-term studies, are the first to assess the effects of an approved TD medication in an elderly study population (≥65 years), and the results indicate that long-term treatment with once-daily valbenazine is appropriate and beneficial for this age group
- In both age subgroups (≥65 years, <65 years), substantial and clinically</p> meaningful improvements in TD were found after 48 weeks of once-daily valbenazine treatment
- Statistical analyses generally indicated no statistically significant differences between age subgroups, although the comparisons may have been limited by relatively smaller numbers of elderly study participants
- The results of these analyses may provide clinicians with important information about the management of TD in elderly patients

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