TIME COURSE OF SIGNIFICANTLY GREATER IMPROVEMENT IN GLOBAL ILLNESS-SEVERITY WITH CARIPRAZINE VERSUS RISPERIDONE IN SCHIZOPHRENIA PATIENTS WITH PREDOMINANT NEGATIVE SYMPTOMS

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Based on the observed effects on both the CGI-S and CGI-I scales, cariprazine was statistically significantly better than risperidone in addressing negative symptoms of schizophrenia.



The results indicate that a reduction in global illness severity occurs early in treatment (beginning at Week 3), many weeks before effects are captured by the PANSS-FSNS (Week 14), CGI-I (Week 14) or the PSP (Week 10).

These results suggest that clinicians can observe a significant reduction in global illness severity that goes beyond negative symptom and PSPmeasured functional improvement that appears to start early and is significantly greater than with risperidone.

OBJECTIVE

To investigate the time patterns of improvement and change of clinical global illness severity during 26 weeks of treatment with cariprazine versus risperidone in patients with predominant negative symptoms of schizophrenia.

INTRODUCTION

The Clinical Global Impressions (CGI) consists of the Improvement (CGI-I) subscale measuring the magnitude of the improvement, and the Severity (CGI-S) subscale evaluating the observed symptom-severity.

- Cariprazine is a dopamine D2-D3 partial agonist with preferential binding to D3 receptors.
- Since activity at the D3 receptors has been linked to negative, cognitive and affective symptom improvement that are each related to functionality, cariprazine could potentially offer relief in these domains and contribute to a reduced overall illness severity and, ultimately, greater life engagement.

METHODS

- This was a post-hoc analysis of a randomised, 26-week, double-blind clinical trial where cariprazine (4.5 mg/day) was compared to risperidone (4 mg/day), in patients with predominant negative symptoms. The primary efficacy endpoint was the Positive and Negative Syndrome Scale Factor Score for Negative Symptoms (PANSS-FSNS), the secondary endpoint was the Personal and Social Performance (PSP), while additional efficacy endpoints included the CGI-S and CGI-I, among others.
- To determine the effects of cariprazine versus risperidone on global illness severity, least square (LS) mean changes from baseline on the CGI-S scale were evaluated at all visits (i.e., weeks 1-4, 6, 10, 14, 18, 22, 26) using mixed-methods repeated measures (MMRM).
- To determine the effects of cariprazine versus risperidone on global illness improvement, LS means of the CGI-I scale scores were calculated and compared at all visits using MMRM.

RESULTS

Statistically significant differences were observed in favour of cariprazine over risperidone for global illness severity, assessed by the CGI-S. Cariprazine patients were considered less ill from Week 3 onwards.
Furthermore, as measured by the CGI-I, patients receiving cariprazine improved significantly more than patients receiving risperidone from Week 14 onwards. Statistically significant separation was also observed at Week 3, but not at Weeks 4, 6, and 10.

Table 2. LS mean change from	baseline on	the CGI-S	scale and LS
means of the CGI-I scale at visits			

CGI-S						
Week	Risperidone	Cariprazine		Risperidone	Cariprazine	
1	-0.04	-0.05		3.86	3.83	
2	-0.09	-0.11		3.67	3.61	
3	-0.18	-0.26	*	3.48	3.33	*
4	-0.27	-0.42	**	3.35	3.21	
6	-0.36	-0.49	*	3.22	3.09	
10	-0.50	-0.60		3.06	2.95	
14	-0.59	-0.75	*	2.98	2.75	*
18	-0.64	-0.81	*	2.95	2.67	**
22	-0.67	-0.88	**	2.91	2.63	**
26	-0.74	-0.95	**	2.89	2.53	***
*p<0.05	5; **p<0.01; ***	o<0.001				

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