RWD61

Rashmi Patel¹, Ling Zhang², Theresa Cassidy², Patrick Keeler³, Sebastien Tulliez³

Introduction



Antipsychotics are the mainstay of pharmacologic treatment for schizophrenia, with non-adherence presenting a major risk factor for relapse and poor overall outcomes1-



RATIONALE

schizophrenia and presents a significant burden, contributing to overall morbidity and mortality.3-6 However, there are currently no approved pharmacologic treatments for CIAS

Cognitive impairment is common in people with

Real-world data on antipsychotic use in people with schizophrenia may allow a better understanding of their needs through identification of characteristics related to adherence, such as the presence or absence of CIAS, length of continuous antipsychotic use, and the proportion of people who choose to switch antipsychotic treatments

Aims

To assess antipsychotic use and adherence in people with schizophrenia with and without CIAS

Methods

Study design

Optum Market Clarity database (Q2 2022 version) US-based de-identified real-world data from linked administrative claims and

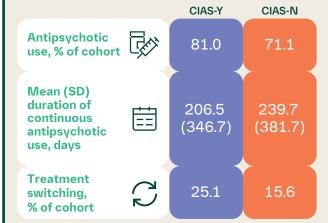
lectronic health records data

- ≥2 claims for diagnosis of schizophrenia during the study period (according to ICD-10 F20/ICD-9 295)
- ≥1 year of continuous enrollment during the baseline period

- period); attention deficit hyperactivity disorder (≤ 1 year before or after index date); bipolar disorder I, bipolar disorder II, or intellectual disability (any time before index date)
- Use of central nervous system stimulants, ketamine, or electroconvulsive therapy procedures ≤6 months pre-index date
- Use of tricyclic antidepressants or transcranial magnetic stimulation

Key Conclusions

- · People with CIAS had greater antipsychotic use, shorter durations of continuous antipsychotic use, and were more prone to switching antipsychotic class than those without CIAS
- Findings indicate people with CIAS experience greater treatment burden, highlighting an unmet need for more effective strategies to improve utilization of antipsychotic medication



Outcomes

- Baseline demographics and antipsychotic use on the index date
- Antipsychotic use in the follow-up period
- Overall and stratified by CIAS status (CIAS-Y; CIAS-N) Stratified by class: FGA oral, FGA LAI, SGA oral, SGA LAI
- · Duration of continuous antipsychotic use
- Created by linking prescriptions with allowed gap days (allowed gaps: 30 days for oral medication, 60 days for LAI medication)
- Imputation days for missing days of supply was 30 for oral medication.
- Proportion of patients switching class of antipsychotic medication
- MPR: ratio of treated days with each class of antipsychotic medication to total
- PDC: number of treated days with each class of antipsychotic medication over number of days from first day of treatment until the end of follow-up: overlapped days of supply were not counted twice

Patient CIAS status was determined by calculating a weighted sum score based on individual CIAS indicator scores (claims code and NLP measure) and absolute distance to any schizophrenia





Abbreviations

on; FGA oral, first-generation antipsychotic oral; ICD, Internat iication of Diseases; MPR, medication possession ratio; atural language processing; PDC, proportion of days covered indard deviation; SGA LAI, second-generation antipsychotic

References

Disclosures

Acknowledgments

Results



75.9% CIAS-Y

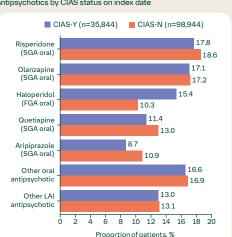
Baseline demographics

Table 1. Patient demographics in the overall study population and by CIAS status

	CIAS-Y (n=44,236)	CIAS-N (n=139,247)	Overall (N=183,483)
Mean (SD) age, years	52.2 (16.7)	46.5 (15.9)	47.8 (16.2)
Sex, n (%) Male	26,444 (59.8)	88,209 (63.3)	114,653 (62.5)
Race, n (%) Asian Black Caucasian	577 (1.3) 13,665 (30.9) 21,630 (48.9)	2169 (1.6) 40,133 (28.8) 60,783 (43.7)	2746 (1.5) 53,798 (29.3) 82,413 (44.9)

- Overall, 134,788 (73.5%) patients used antipsychotics, including 35,844 (81.0%) patients in the CIAS-Y group and 98,944 (71.1%) patients in the CIAS-N group in the form of either monotherapy or combination therapy (Table 2)
- On index the CIAS-Y group demonstrated a higher rate of haloperidol use compared with the CIAS-N group (Figure 1)

Figure 1. Proportion of patients using different generic



Antipsychotic use in the follow-up period

· During the follow-up period, a higher proportion of patients in the CIAS-Y group were prescribed 3 or more antipsychotic medications compared with the CIAS-N group (**Figure 2**)

Figure 2. Proportion of patients receiving generic antipsychotic prescriptions during the follow-up period

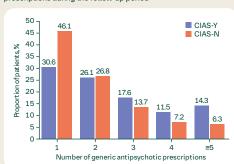


Table 2. Number of generic antipsychotic prescriptions on index data by CIAS status

index date by CIAS status				
	CIAS-Y n=44,236	CIAS-N n=139,247		
Number of generic antipsychotic prescriptions on index date, n (%)				
0	8392 (19.0)	40,303 (28.9)		
1	32,330 (73.1)	91,767 (65.9)		
2	3226 (7.3)	6696 (4.8)		
3	264 (0.6)	441 (0.3)		
≥4	24 (0.1)	40 (<0.1)		
Monotherapy or combination therapy on index date, n (%)				
Monotherapy	32,330 (73.1)	91,767 (65.9)		
Combination therapy, ≥2 generic	3514 (7.9)	7177 (5.2)		

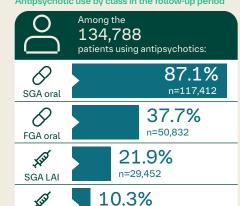
Antipsychotic use by class in the follow-up period

8392 (19.0)

40.303 (28.9)

prescriptions

None



n=13.848

Duration of continuous antipsychotic use

Mean (SD) duration of continuous

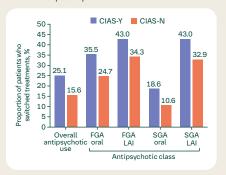




Antipsychotic treatment switching

 For those receiving monotherapy, treatment-switching between the different antipsychotic classes during the first continuous exposure period was generally more common in the CIAS-Y group than the CIAS-N group across all antipsychotic classes (Figure 3)

between the 4 antipsychotic classes during the first



MPR and PDC in the follow-up period

 For each of the 4 classes of antipsychotics, the mean MPR and mean PDC in the CIAS-Y and CIAS-N groups are described in **Table 3**

Table 3. MPR and PDC by CIAS status and antipsychotic

	CIAS-Y	CIAS-IN		
Medication possession ratio (MPR), mean (SD)				
FGA oral	0.67 (0.33) n=11,084	0.71 (0.31) n=20,594		
FGA LAI	0.70 (0.29) n=4247	0.73 (0.27) n=7991		
SGA oral	0.66 (0.31) n=31,426	0.69 (0.30) n=82,247		
SGA LAI	0.77 (0.26) n=3081	0.79 (0.24) n=7341		
Proportion of days covered (PDC), mean (SD)				
FGA oral	0.30 (0.32) n=12,998	0.35 (0.34) n=24,940		
FGA LAI	0.33 (0.31) n=4905	0.40 (0.33) n=9232		
SGA oral	0.45 (0.33) n=32,998	0.47 (0.34) n=88,694		
SGA LAI	0.34 (0.32) n=3606	0.41 (0.34) n=8413		

Additional Conclusions

· Patterns of antipsychotic treatment vary between CIAS-Y and CIAS-N groups, with the CIAS-Y group having a higher rate of haloperidol use than the CIAS-N group on index date

FGA I AI

• The observation of a higher proportion of patients in the CIAS-Y group switching antipsychotics compared with the CIAS-N group was also reflected in each of the 4 classes of antipsychotics, which may suggest CIAS status is a potential contributory factor in changing treatments. Future studies that capture patients' reasons for switching would be of interest

