

## Supplementary Material

**Article Title:** Outcomes and Practice Patterns of Long-Acting Injectable Versus Oral Antipsychotics Among Patients With Bipolar I Disorder in the United States: A Hospital Database Analysis

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### **DISCLAIMER**

This Supplementary Material has been provided by the authors as an enhancement to the published article. It has been approved by peer review; however, it has undergone neither editing nor formatting by in-house editorial staff. The material is presented in the manner supplied by the author.

## SUPPLEMENTARY RESULTS

### SUPPLEMENTARY TABLES

**Supplementary Table 1. SG LAI Agents Prescribed at Discharge at Index Hospitalization**

LAI agent, n (%)	Patients (n=2334)	On-label/off-label use
<b>SG LAI</b>		
Risperidone q2w	42	On-label
Aripiprazole q1m	523	On-label
Paliperidone q1m	586	Off-label
Olanzapine q2w, q1m	1	Off-label
<b>FG LAI</b>		
Fluphenazine q2w – q3w	312	Off-label
Haloperidol q3w – q1m	870	Off-label

Abbreviations: FG LAI = first-generation long-acting injectable, q2w = once every 2 weeks, q1m = once every month, q3w = once every 3 weeks, SG LAI = second-generation long-acting injectable

**Supplementary Table 2. Presence of Other Psychiatric Comorbidities (excluding BD) Among OA, LAI, SG LAI Groups<sup>a</sup>**

Psychiatric comorbidity (ICD-10 diagnosis codes), n (%)	OA vs LAI		OA vs SG LAI	
	OA (n = 9,244)	LAI (n = 2,311)	OA (n = 4,572)	SG LAI (n = 1,143)
<b>Mental and behavioral disorders due to psychoactive substance use (F10-F19)</b>	6,211 (73.0)	1,552 (74.0)	3,222 (77.0)	804 (77.0)
<b>Anxiety, dissociative, stress-related, somatoform, and other nonpsychotic mental disorders (F40-F48)</b>	5,072 (60.0)	1,035 (49.0)	2,439 (59.0)	524 (50.0)
<b>Schizophrenia, schizotypal, delusional, and other non-mood psychotic disorders (F20-F29)</b>	2,499 (30.0)	835 (40.0)	1,157 (28.0)	329 (32.0)
<b>Mood [affective] disorders (F30-F39)</b>	1,651 (20.0)	267 (13.0)	768 (18.0)	126 (12.0)
<b>Disorders of adult personality and behavior (F60-F69)</b>	1,216 (14.0)	273 (13.0)	565 (14.0)	141 (14.0)
<b>Behavioral and emotional disorders with onset usually occurring in childhood and adolescence (F90-F98)</b>	921 (11.0)	189 (9.0)	434 (10.0)	102 (10.0)
<b>Mental disorders due to known physiological conditions (F01-F09)</b>	305 (4.0)	98 (5.0)	131 (3.0)	37 (4.0)
<b>Pervasive and specific developmental disorders (F80-F89)</b>	303 (4.0)	62 (3.0)	147 (4.0)	29 (3.0)
<b>Behavioral syndromes associated with physiological disturbances and physical factors (F50-F59)</b>	289 (3.0)	64 (3.0)	133 (3.0)	24 (2.0)
<b>Intellectual Disabilities (F70-F79)</b>	213 (3.0)	66 (3.0)	95 (2.0)	31 (3.0)
<b>Unspecified mental disorder (F99)</b>	135 (2.0)	37 (2.0)	58 (1.0)	21 (2.0)

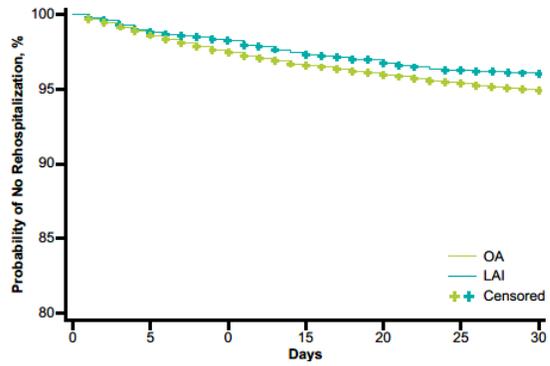
<sup>a</sup>Diagnoses are not mutually exclusive.

Abbreviations: BD = bipolar disorder, ICD-10 = International Statistical Classification of Diseases and Related Health Problems, Tenth Revision LAI = long-acting injectable, OA = oral antipsychotic, SG LAI = second-generation long-acting injectable

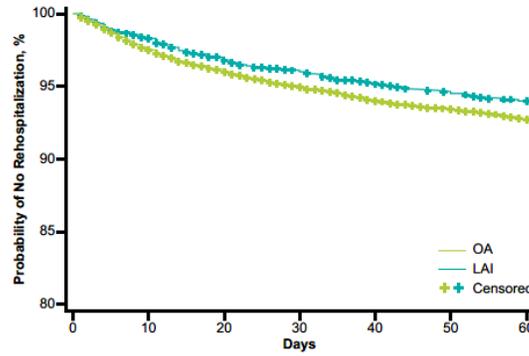
**SUPPLEMENTARY FIGURES**

**Supplementary Figure 1. Time to BD-I–Related Rehospitalizations**

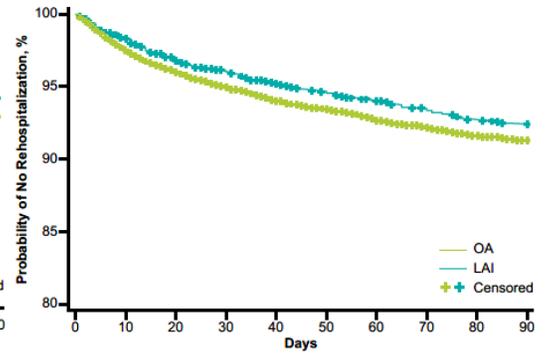
**A) LAI vs OA**



30 days\*



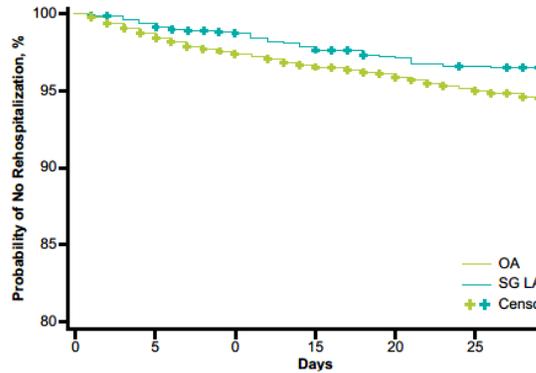
60 days\*



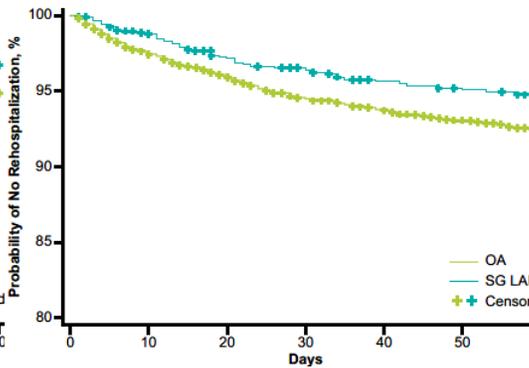
90 days

Months since index hospitalization

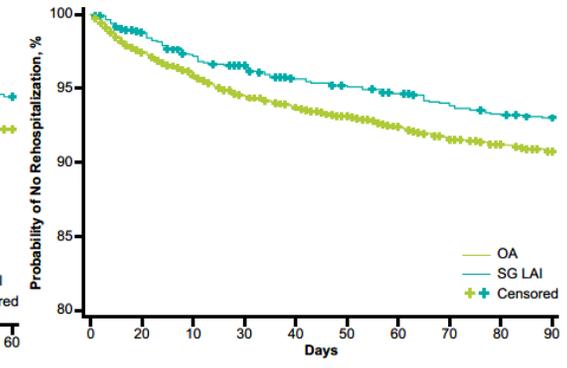
**B) SG LAI vs OA**



30 days\*



60 days\*



90 days\*

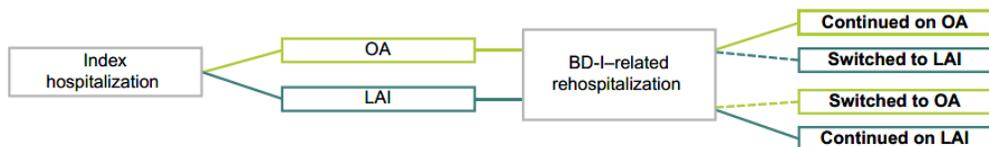
Months since index hospitalization

\*Statistically significant at  $P < .05$ .

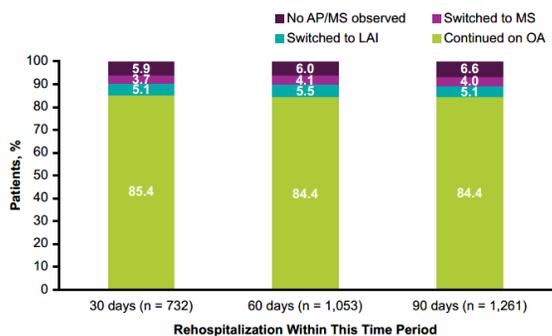
Abbreviations: BD-I = bipolar I disorder, LAI = long-acting injectable, oral antipsychotic, SG LAI = second-generation long-acting injectable.

## Supplementary Figure 2. Continuation of Medication vs Switching at Rehospitalization

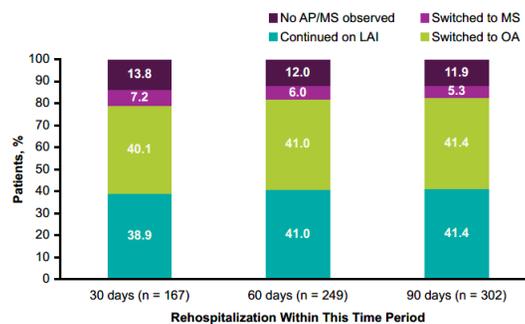
### A. Schematic of outcome assessed



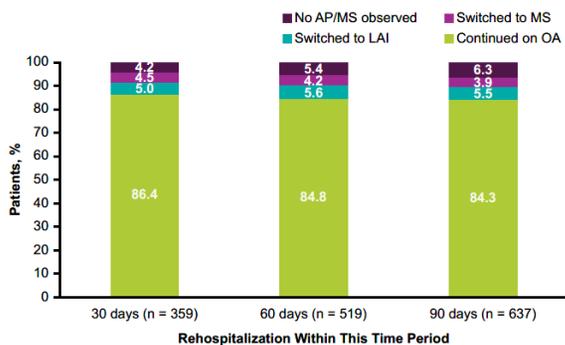
### B. Patients discharged on OA



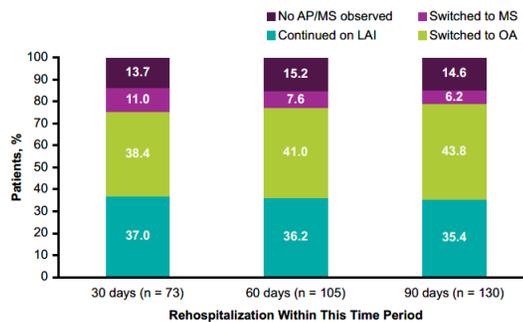
### C. Patients discharged on LAI



### D. Patients discharged on OA



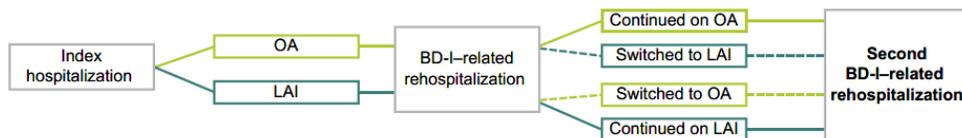
### E. Patients discharged on SG LAI



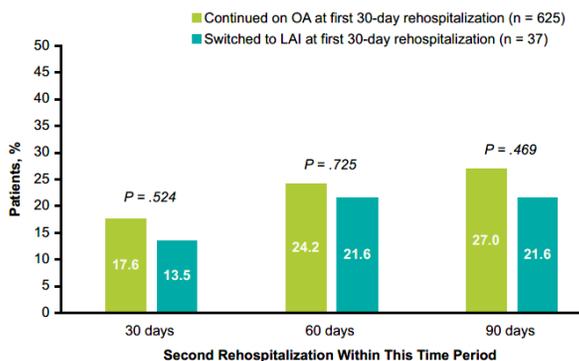
Abbreviations: AP = antipsychotic, BD-I = bipolar I disorder, LAI = long-acting injectable, MS = mood stabilizer, OA = oral antipsychotic, SG LAI = second-generation long-acting injectable.

### Supplementary Figure 3. Second Rehospitalizations After Continuation of Medication vs Switching

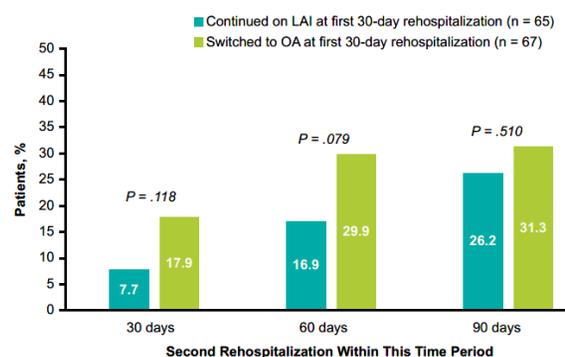
#### A. Schematic of outcome assessed



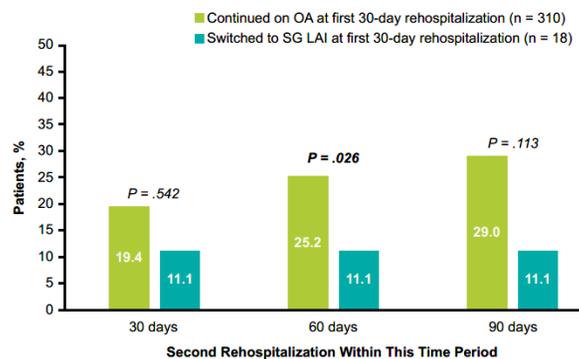
#### B. Patients who continued on OA vs switching to LAI



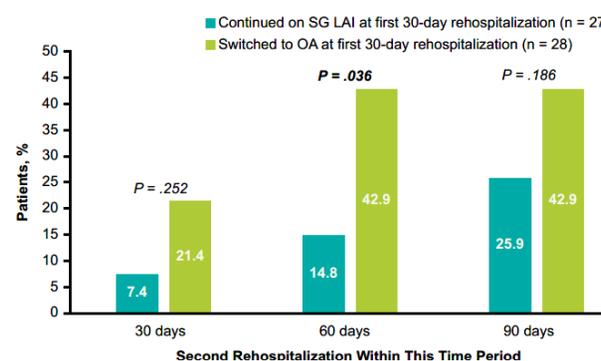
#### C. Patients who continued on LAI vs switching to OA



#### D. Patients who continued on OA vs switching to SG LAI



#### E. Patients who continued on SG LAI vs switching to OA



Abbreviations: BD-I = bipolar I disorder, OA = oral antipsychotic, LAI = long-acting injectable, SG LAI = second-generation long-acting injectable.