

Comparative Overview of the Side Effect Profiles of Medications Used in the Treatment of Bipolar Disorder

ADVERSE EFFECTS	TIME COURSE	DOSE DEPENDENCY	SECOND-GENERATION ANTIPSYCHOTICS (SGA)										OTHER MEDICATIONS			
			Aripiprazole	Cariprazine	Clozapine	Lurasidone	Olanzapine	Paliperidone	Quetiapine	Risperidone	Carbamazepine	Lamotrigine	Lithium	Valproic Acid		
Anticholinergic	Early/Titration	+++	0	0/+	+++	0	++	0	++	+	0	0	0	0/+		
Akathisia	Early/ Intermediate	+++	++	+ /+++	+	+ /+++	+	+	+	+	0	0	0	0		
Dyskinesia (Tardive)	Late	++	+	+	0	+	+	+	+	+	0	0	0	0		
Dyskinesia (Withdrawal)	Early Taper/ Fast Switch	+++	++	+	0	+	+	+	+	+	0	0	0	0		
↑ Lipids	Early/ Intermediate	0/+	+	+	+++	0/+	+++	+	+ /+++	+	+	+	+	+		
Metabolic Risk ↓ insulin sensitivity	Late	0/+	+	+	+++	0/+	+++	+	++	+	+	+	+	+ /+++		
Neutropenia	First 6 months	0/+	+	+	+++	+	+	+	+	+	++	0	+	+		
Orthostasis	Early/Titration	+++	+	0/+	+++	+	++	+	++	+	0	0	0	0		
Parkinsonism	Early	+++	+	+	0	+	+	++	0	++	0	0	+	0		
↑ Prolactin	Early	+++	0	0/+	0	+	+ /+++	+++	0	+++	0	0	0	0		
↑ QTC Interval	Early/Titration	0/+	+	0/+	+	0/+	+	+	+	+	0	0	0	0		
Sedation	Early/May improve	+++	+	+	+++	++	++	+	++	+	+	+	+	++		
Seizures	During Titration	+++	+	+	++	+	+	+	+	+	0	0	0	0		
Sialorrhea	Early/Titration	+++	+	0/+	+++	+	+	+	0/+	+	0	0	0	0		
Steven Johnson Syndrome	High Start Dose/ Fast Titration	++	+	+	+	+	+	+	+	+	+	++	+	+		
Weight Gain	First 3-6 Months	0/+	+	0/+	+++	0/+	+++	+ /+++	++	++	+	+	+ /+++	++		

0: None or equivocal, 0/+ : Rare/Limited data, +: Mild/Sometimes occurs, ++: Moderate/Occurs frequently, +++: Severe/Occurs often.

References

- Correll CU: Antipsychotic Use in Children + Adolescents: Minimizing Adverse Effects to Maximize Outcome. J Am Academy Child Adolescence Psychiatry 2008; 47: 9-20.
- Correll CU and Schenk EM: Assessing and Treating Pediatric Bipolar Disorder. Oxford Am Psychiatry Library, In Preparation.
- Clinical Evaluation of QT/QTc Interval Prolongation and Proarrhythmic Potential for Non-Antiarrhythmic Drugs – Questions and Answers; Guidance for Industry US Food and Drug Administration, June 2017 (revision 2).
- Durán, C.E., Azernai, M. & Vander Stichele, R.H. Systematic review of anticholinergic risk scales in older adults. Eur J Clin Pharmacol (2013) 69: 1485.
- Citrome L. Lurasidone for Schizophrenia: A Brief Review of a New Second-Generation Antipsychotic. Clin Schizophr Relat Psychoses. 2011;4(4):251-257.
- Durgam S, Earley W, Lipschitz A, et al. an 8-week randomized, double-blind, placebo-controlled evaluation of the safety and efficacy of cariprazine in patients with bipolar I depression. Am J Psychiatry. 2016;173(3):271-281.
- 2004 TRAAV – A Pocket Reference Guide. New York State Office of Mental Health, Research Foundation for Mental Hygiene, Inc, and the Trustees of Columbia university.
- Stroup TS, Gray N. Management of common adverse effects of antipsychotic medications. World psychiatry: official journal of the World Psychiatric Association (WPA). 2018;17(3):341-56.