WC-032-062917-03 WC-033-070617-03

## SYLLABUS AND COURSE GUIDE

Session I: Thursday, June 29, 2017 Session II: Thursday, July 6, 2017

# Four-Part Case Series: Bipolar Disorder with Residual Symptoms - Q&A Session I & II

FACULTY: Roger S. McIntyre, MD, FRCPC



A Free, 30 Minute CME/CPE LIVE Q&A Case Based Session Thursday, June 29, 2017 at 3:00 PM ET (Session I) OR Thursday, July 6, 2017 at 3:00 PM ET (Session II)

## http://www.cmeoutfitters.com/CaseSeries/

(free account activation and log-in required)

Call in to listen by phone: 866-605-1828 Enter conference ID #: 13665313

Take advantage of our LIVE Q&A segment with Dr. McIntyre!

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## **INFORMATION FOR PARTICIPANTS**

#### **Statement of Need**

Bipolar disorder is a severe psychiatric disorder that is frequently associated with persistent symptoms and significant dysfunction.

Evidence suggests that the symptoms of bipolar disorder are recurrent and can worsen over repeated relapses. Even patients who follow treatment advice are still at a high relapse risk. Repeated relapses and rehospitalizations are main distresses, indicating a "downward spiral" of declined functioning and greater dependency on support and care by others.<sup>1</sup> The goal is to effectively manage symptoms and prevent relapse.

In this CME Outfitters patient case and expert consult Q & A session, faculty will go in-depth with the case study answering your questions while offering evidence, guidelines, and quality measures to manage residual symptoms and avoid relapse in patients with bipolar disorder.

1. U. S. Public Health Service Office of the Surgeon General. Mental Health: Culture, Race, and Ethnicity: A Supplement to Mental Health: A Report of the Surgeon General. Rockville, MD: Department of Health and Human Services, U.S. Public Health Service; 2001.

#### **Learning Objectives**

At the end of this CE activity, participants should be able to:

- Review the efficacy and safety profile of recent agents approved for the treatment of bipolar disorder.
- Implement a treatment plan than addresses residual symptoms by incorporating the latest advances in bipolar disorder management.

#### **Target Audience**

Psychiatrists, pharmacists, and other members of the interprofessional team caring for individuals with bipolar disorder.

#### **Financial Support**

Supported by an educational grant from Allergan.

## **CREDIT INFORMATION**

#### **CME** Credit

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IPE

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Universal Activity Number Session I:	0376-0000-17-021-L01-P (live program) 0376-0000-17-021-H01-P (recorded program)
Universal Activity Number Session II:	0376-0000-17-022-L01-P (live program) 0376-0000-17-022-H01-P (recorded program)

Type: knowledge-based

## **CREDIT REQUIREMENTS**

Successful completion of this CE activity includes participating in the activity, reviewing the course materials, and following the instructions below within 30 days of completion of the activity:

To complete your credit request form, activity evaluation, and post-test online, and print your certificate or statement of credit immediately (75% pass rate required), please visit **cmeoutfitters.com/TST22258 (for session I) & cmeoutfitters.com/TST22259** (for session II) and click on the Testing/Certification link under the Activities tab (requires free account activation). This website supports all browsers except Internet Explorer for Mac. For complete technical requirements and privacy policy, visit www. neurosciencecme.com/technical.asp.

There is no fee for participation in this activity. The estimated time for completion is 45 minutes. Questions? Please call **877.CME.PROS**.

## FACULTY BIOS & DISCLOSURES

#### Roger S. McIntyre, MD, FRCPC

Dr. McIntyre is currently a Professor of Psychiatry and Pharmacology at the University of Toronto and Head of the Mood Disorders Psychopharmacology Unit at the University Health Network, Toronto, Canada.Dr. McIntyre is also Executive Director of the Brain and Cognition Discovery Foundation in Toronto, Canada.

Dr. McIntyre was named by Thomson Reuters in 2014, as one of "The World's Most Influential Scientific Minds". This distinction is given by publishing the largest number of articles that rank among those most frequently cited by researchers globally in 21 broad fields of science and social science during the previous decade.

Dr. McIntyre is involved in multiple research endeavours which primarily aim to characterize the association between mood disorders, notably cognitive functionand medical comorbidity. His works broadly aims to characterize the underlying causes of cognitive impairment in individuals with mood disorders and their impact on workplace functioning. This body of work has provided a platform for identifying novel molecular targets to treat and prevent mood disorders and accompanying cognitive impairment.

Dr. McIntyre is extensively involved in medical education. He is a highly sought-after speaker at both national and international meetings. He has received several teaching awards from the University of Toronto, Department of Psychiatry and has been a recipient of the joint Canadian Psychiatric Association (CPA) / Council of Psychiatric Continuing Education Award for the Most Outstanding Continuing Education Activity in Psychiatry in Canada.

Dr. McIntyre is the co-chair of the Canadian Network for Mood and Anxiety Treatments (CANMAT) Task Force on the Treatment of Comorbidity in Adults with Major Depressive Disorder or Bipolar Disorder and as well a contributor to the CANMAT guidelines for the treatment of Depressive Disorders and Bipolar Disorders. Dr. McIntyre has published hundreds of peer-reviewed articles and hasedited and/or co-edited several textbooks on mood disorders.

Dr. McIntyre completed his medical degree at Dalhousie University. He received his Psychiatry residency training and Fellowship in Psychiatric Pharmacology at the University of Toronto.

#### **Disclosure of Relevant Financial Relationships with Commercial Interests**

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Dr. McIntyre has disclosed that he receives grant support from Allergan; AstraZeneca; Janssen Pharmaceuticals Inc.; Lundbeck; Otsuka; Pfizer Inc.; Purdue Pharma; and Shire. He serves on the advisory board for AstraZeneca; Eli Lilly and Company; Bristol-Myers Squibb Company; Forest Laboratories, Inc.; Janssen Pharmaceuticals, Inc.; Johnson & Johnson; Lundbeck; Mitsubishi Tanabe Pharma Corporation; Moksha8 Pharmaceuticals Inc.; Otsuka; Pfizer Inc.; PurduePharma; Shire; Sunovion Pharmaceuticals Inc.; and Takeda Pharmaceutical Company Limited. He serves on the speakers bureau for AstraZeneca; Eli Lilly and Company; Bristol-Myers Squibb Company; Forest Laboratories, Inc.; Janssen Pharmaceuticals, Inc.; Johnson & Johnson; Lundbeck; Mitsubishi Tanabe Pharma Corporation; Moksha8 Pharmaceuticals Inc.; Otsuka; Pfizer Inc.; PurduePharma; Shire; Sunovion Pharmaceuticals Inc.; Myers Squibb Company; Forest Laboratories, Inc.; Janssen Pharmaceuticals, Inc.; Johnson & Johnson; Lundbeck; Mitsubishi Tanabe Pharma Corporation; Moksha8 Pharmaceuticals Inc.; Otsuka; Pfizer Inc.; PurduePharma; Shire; Sunovion Pharmaceuticals Inc.; and Takeda Pharmaceutical Company Limited. Tony Graham, MD (peer reviewer) has no disclosures to report.

Kashemi D. Rorie, PhD (planning committee) has no disclosures to report.

Sharon Tordoff, CHCP (planning committee) has no disclosures to report.

Jan Perez, CHCP (planning committee) has no disclosures to report.

Disclosures were obtained from the CME Outfitters, LLC staff: No disclosures to report.

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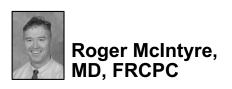
#### **Activity Slides**

The slides that are presented in this activity are available for download and printout at the neuroscienceCME website: **www.neuroscienceCME.com.** Activity slides may also be obtained via fax or email by calling **877.CME.PROS**.



Four-Part Case Series: Bipolar Disorder with Residual Symptoms – Q&A Session 1

Supported by an educational grant from Allergan.



Professor of Psychiatry and Pharmacology University of Toronto Executive Director Brain and Cognition Discovery Foundation (BCDF) Head, Mood Disorders Psychopharmacology Unit University Health Network Toronto, ON

## Learning **1** Objective

Review the efficacy and safety profile of recent agents approved for the treatment of bipolar disorder.

# Learning **2** Objective

Implement a treatment plan than addresses residual symptoms by incorporating the latest advances in bipolar disorder management.

#### Revisiting the Case of Mr. RT

• Mr. RT is a 28-year-old male, PhD student in his final year, planning his thesis defense. Mr. RT is living with his partner of 4 years in a stable relationship. Mr. RT has been given a diagnosis of Bipolar I Disorder.

### **Diagnostic Considerations for Mr. RT**

- Confirming his diagnosis
- Differentiating bipolar subtypes
- Course of Illness
- Family history
- Medical and/or psychiatric comorbidities

	Suspect bipolar disorder? Presentation: depressive symptoms Bisk factors: history of manic or hypomanic symptoms	
Culpepper L. <i>Prim Care</i>	Verify useden dispolar disorder by         Pattert interview detailed personal dones, frequency,         Carlot interview detailed personal dones, frequency,         Carlot interview dispolar disorder disposit         Detailed dinical interview.using DSAM/PTROSAS of carlot	• The "po depres depres depres cannat smoke

#### Symptom Profile of Mr. RT

• The "polarity predominance" of his illness has been depression, insofar as he rarely has hypo/manic depressive episodes, but he has had greater than 4 depressive episodes prior. He has a past diagnosis of cannabis use disorder in remission. He continues to smoke cigarettes daily. (i.e. 10 pack years).

#### Four-Part Case Series: Bipolar Disorder with Residual Symptoms: Live Q&A with Dr. McIntyre

Bipolar Depression (more likely with ≥5 present)	Unipolar Depression (more likely with ≥4 present)	
Hypersomnia, more daytime sleeping	Initial insomnia or reduced sleep	
Hyperphagia, increased body weight	Appetite or weight loss	
Psychotic features during depression, pathologic guilt	Somatic complaints	
Psychomotor retardation	Normal or increased activity levels	
Atypical symptoms (eg, leaden paralysis)		
Mood lability or manic symptoms		
First depression <25 years of age	First depression >25 years of age	
≥5 prior major depressive episodes	Long current episode (>6 months)	
Bipolar disorder in family history	No bipolar disorder in family history	
Other factors that can help identify - Sudden onset of symptoms - Impulsivity - Poor response of depressive symptoms to an		



- Bipolar I 1 or more manic or mixed
  - episodesMore severe, leading to:
  - Hospitalizations
     Psychotic features
- Bipolar II 1 or more hypomanic episodes and no mania
  - 1 or more major depressive episodes

American Psychiatric Association. Diagnostic and Statistical Manual of Mental Disorders. 5th ed. Washington, DC: American Psychiatric Association; 2013.

**Best Practices: Factors to Consider** 

Depressive symptom severity

Presence of mixed features, rapid cycling

Comorbid psychiatric and medical illness

Therapy risk-benefit

Slide courtesy of Dr Susan McElroy

**Cumulative Effect of Previous Bipolar** Manic Episodes on Neurocognition Effect size 1.2 rs. 1 manic episode (n = 24)
rs. 2 manic episodes (n = 27)
rs. ≥3 manic episodes (n = 47) 1.0 0.8 ncreasing number of manic ated with Seat. TMT-7 B, Trail Making Test A / B; WCST, Wisconsin Card Sorting Test \*p < .01; \*\*p < .001 for effect size vs controls; Effect size >0.70 assumed to be significant López-Jaramillo C, et al. *Bipolar Disord*. 2010;12(5):557-567.

#### Four-Part Case Series: Bipolar Disorder with Residual Symptoms: Live Q&A with Dr. McIntyre

#### **Intensive Psychotherapies Improve** Comorbid Symptoms in Mr. RT **Bipolar Depression** • N = 293 bipolar depressed outpatients 1.0 • Current PHQ-9 score = 15, GAD-7 score = 12. He's Protocol meds + 9 mos: complaining of cognitive dysfunction (e.g. inattention), as 0.8 • FFT (family-focused therapy) well as problems with focusing on his thesis. IPSRT (interpersonal and social rhythm therapy) Cumulative Proportion Not Recovered 0.6 • His BMI is 28 kg/m<sup>2</sup>. He was told that this could be CBT (cognitive behavior therapy) interfering with his cognitive abilities to some extent, and was 0.4 CC CC (collaborative care) counselled on appropriate diet, exercise, and sleep hygiene. СВТ Intensive psychotherapies 0.2 IPSRT FFT Higher recovery rate Shorter time to recovery 0.0 1.6x more likely to be clinically well during any study month 200 300 400 0 100 Time to Recovery (Days) PHQ = Patient Health Questionnaire GAD-7 = Generalized Anxiety Disorder 7-Item Miklowitz DJ et al. Arch Gen Psychiatry. 2007;64(4):419-426.

# FDA-Approved Bipolar Disorder Treatments Agent Manic Mixed Depression Maintenar Aripiprazole + + Asenapine + + + Cariorazine + + +

Lurasidone	-	-	+	-
Olanzapine	+	+	-	-
Olanzapine/Fluoxetine	-	-	+	-
Quetiapine/XR	+	-	+	+
Risperidone (Oral / IM)	+	+	-	+ (M)
Ziprasidone	+	+	-	+
Chlorpromazine	+	-	-	-
Carbamazepine XR	+	+	-	-
Divalproex DR/ER	+	+	-	-
Lamotrigine	-	-	-	+
Lithium	+	-	-	+

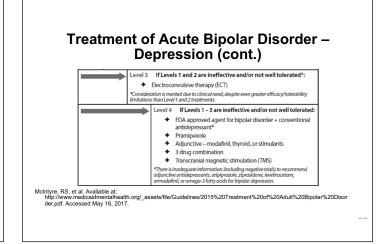
\*Aripiprazole, asenapine, olanzapine, quetiapine, risperidone indication as monotherapy and adjunct to Li or DVPX and with / without psychosis

#### Evidence Base for Treatment of Bipolar Depression

Drug	Evidence Base	Drug	Evidence Base
Quetiapine	++	Modafinil	+/-/-
Lurasidone	++	Aripiprazole	-
Fluoxetine	+	Ziprasidone	-
Lamotrigine	+	High dose thyroxine	+
Lithium	+	Sleep Dep/Pindolol	+
Olanzapine	+	ECT	+
Pramipexole	+	Clozapine	?
Valproate	+	TMS	?
Ketamine	+/+	DBS	?

Vieta E. World J Biol Psychiatry. 2009;10(2):82-84.: Zarate CA, et al. Am J Psychiatry. 2004;161(1):169-171.: Diazgranados N. et al. Arch Gen Psychiatry. 2010;67(6):783-802.:Goldberg JF, et al. Am J Psychiatry.2004;161(3):584-586.; Frye MA, et al. Am J Psychiatry. 2007;164(8):1242-1249.: Calabrese JR, et al. J Clin Psychiatry.2010;12(4):404-413.

Treat	ment of Acute Bipolar Disorder –
	Depression
	Depression
Lev	rel 1 Established efficacy:
	<ul> <li>Quetiapine* or lurasidone** monotherapy</li> </ul>
	<ul> <li>Lurasidone adjunctive to lithium or divalproex (bipolar I disorder)</li> </ul>
	ly quetiapine has established efficacy for bipolar II disorder.
**Lu	urasidone has a better metabolic profile than quetiapine.
	Level 2A Established efficacy, but with safety concerns*:
	<ul> <li>Olanzapine + fluoxetine (bipolar I disorder)</li> </ul>
	*Tolerability limitations include weight gain and metabolic concerns.
	Level 2B Better tolerability, but limited efficacy*:
	Consult specialist.
	<ul> <li>Lithium (bipolar I disorder)</li> </ul>
	<ul> <li>Lithium adjunctive to lamotrigine (bipolar I disorder)</li> </ul>
	<ul> <li>2 drug combination of above medications</li> <li>"Efficacy limitations, relatively few positive randomized controlled trials; positive meta-analysis for</li> </ul>
	lamotrigine in bipolar depression. <sup>1</sup>



#### **Treatment Initiation in Mr. RT**

• Mr. RT was given a prescription for an atypical antipsychotic recommended first-line according to the Florida Medicaid Guidelines for depression. Additionally, psychoeducation was offered, and he was referred to mindfulness-based psychotherapy.

#### The Do's and Don'ts of Managing Mr. RT

- Dosing/titration
- Switching
- Adjunctive therapy
- Initial treatment considerations
- Patient follow-up intervals
- Management of comorbidities

#### SMART Goals: Managing Patients Like Mr. RT

- Timely and accurate diagnosis, differentiating Bipolar I, II, and Major Depressive Disorder
- Utilize evidence-based strategies, including treatment guidelines and appropriate clinical tools for appropriate treatment selection and monitoring
- Consider safety and tolerability profiles when developing treatment approaches for Bipolar Disorder
- Treat comorbid medical and psychiatric conditions

## Questions & Answers



To receive CME/CE credits for this activity, participants must complete the post-test and evaluation online.

Click the *Apply for Credit* link found under the presentation slide window to complete the process and print your certificate.

	Resources	Quality Measure • The STAndards for BipoLar Excellence (STABLE) project highlights several measures, which provide guidance for performance and quality improvement, particularly in key gap areas. These are also adopted by the AHRQ as quality measures. In the area of metabolic monitoring, STABLE includes: monitoring for weight gain, screening for hyperglycemia, and monitoring for hyperlipidemia when an atypical antipsychotic agent is prescribed. Agency for Healthcare Quality and Research. Available at https://www.qualitymeasures.ahrq.gov/search?f Developer_String=STABLE%20Project%20National%2 0Coordinating%20Council&LockTerm=STABLE%20Project%2BNational%2BCoordinating%2BCouncil.
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• The percentage of patients diagnosed and treated for bipolar disorder who are monitored for change in their symptom complex within 12 weeks of initiating treatment.

Agency for Healthcare Research and Quality. Available at https://www.qualitymeasures.ahrq.gov/summaries/summary/28262/bipolar-disorder-the-percentage-ofpatients-diagonsed-and-treated-for-bipolar-disorder-who-are-monitored-for-change-in-their-symptomcomplex-within-12-weeks-of-initiating-treatment. Accessed June 23, 2017.

Q-9	Over the last 2 weeks. I by any of the following (Use ">" to indicate you	ow often have you been bothered problems? answer/	Not at all	Several days	More than half the days	Nearly every day
	1. Little interest or please	re in doing things	0	1	2	3
	2. Feeling down, depress	ed, or hopeless	0	1	2	з
	3. Trouble falling or stayi	ng asleep, or sleeping too much	0	1	2	з
	4. Feeling tired or having	ittio energy	0	1	2	3
	5. Poor appetite or overe	ating	0	1	2	з
	<ol> <li>Feeling bad about you have lot yourself or yo</li> </ol>	rself — or that you are a failure or ar family down	0	1	2	з
	7. Trouble concentrating newspaper or watching	on things, such as reading the g television	0	1	2	з
	noticed? Or the opport	slowly that other people could have ite — being so fidgety or restless wing around a lot more than usual	0	1	2	3
	<ol> <li>Thoughts that you way yourself in some way</li> </ol>	id be better off dead or of hurting	0	1	2	з
		For office cos	ews <u>0</u> +		Total Score	_
If you checked off <u>any</u> problems, how <u>difficult</u> have these problems made it for you to do your work, take care of things at home, or get along with other people?						
	Not difficult at all	Somewhat difficult	Very difficult		difficul	

### Mood Disorders Questionnaire (MDQ)

you felt so good or so hyper that other people thought you were not your normal self or you were so hyper that you	got into trouble? Yes
you were so irritable that you shouted at people or started fights or arguments?	Yes
you felt much more self-confident than usual?	Yes
you got much less sleep than usual and found you didn't really miss it?	Yes
you were much more talkative or spoke much faster than usual?	Yes
thoughts raced through your head or you couldn't slow your mind down?	Yes
you were so easily distracted by things around you that you had trouble concentrating or staying on track?	Yes
you had much more energy than usual?	Yes
you were much more active or did many more things than usual?	Yes
you were much more social or outgoing than usual; for example, you telephoned friends in the middle of the night?	Yes
you were much more interested in sex than usual?	Yes
you did things that were unusual for you or that other people might have thought were excessive, foolish, or risky?	Yes
spending money got you or your family into trouble?	Yes
2. If you checked YES to more than 1 of the above, have several of these ever happened during the same period of time	? Yes
<ol> <li>How much of a problem did any of these cause you—being unable to work; having family, money, or legal troubles; ge arguments or fights? Please circle 1 response only</li> </ol>	tting into
No problem Minor problem Moderate problem Serious problem	
Have any of your blood relatives (ie, children, siblings, parents, grandparents, aunts, uncles) had manic-depressive illnes disorder?	s or bipolar Yes
For a positive screen, 7 of the 13 items in no. 1 must be yes, no. 2 must be yes, and no. 3 must be moderate or serious	

	I. Stem Questions
The Composite International	1. Some people have periods lasting several days or longer when they feel much more excited and ful of energy than usual. Their minds go too fast. They tak as ids. They are very resites or unable to sit still, and they sometimes do things that are unusual for them, such as driving too fast or spending too much money. Have you ever had a period like this lasting several days or longer?
Diagnostic	2. Have you ever had a period lasting several days or longer when most of the time you were so irritable or grouchy that you started arguments, shouted at people, or hit people?
	II. Criterion B Screening Questions
Interview (CIDI)	<ol> <li>People who have episodes like this often have changes in their thinking and behavior at the same time, like being more talkathe, needing very little sleep, being very restless, going on buying spress, and behaving in ways they would normally think are inappropriate. Do you ever have any of these changes during your episodes of being excited and full of energy/very initiable or grouch/?</li> </ol>
	III. Criterion B Symptom Questions
	Think of an episode when you had the largest number of changes like these at the same time. During that episode, which of the following changes did you experience?
	1. Were you so irritable that you either started arguments, shouted at people, or hit people? <sup>6</sup>
	2. Did you become so restless or fidgety that you paced up and down or couldn't stand still?
	3. Did you do anything else that wasn't usual for you—like talking about things you would normally keep private or acting in ways that you would usually find embarrassing?
	4. Did you try to do things that were impossible to do, like taking on large amounts of work?
	5. Did you constantly keep changing your plans or activities?
	6. Did you find it hard to keep your mind on what you were doing?
Kessler RC, et al.	<ol><li>Did your thoughts seem to jump from one thing to another or race through your head so fast you couldn't keep track of them?</li></ol>
J Affect Disord.	8. Did you sleep far less than usual and still not get tired or sleepy?
2006;96(3):259–269.	9. Did you spend so much more money than usual that it caused you to have financial trouble?

Generalized Over the last 2 weeks, how often have you been Not at all sure Several days Over half the days Nearly very day Anxiety Disorder 7- Item (GAD-7) 3. Vorying too much about different thing 0 1 2 2. Not being able to stop or control worrying 0 3. Worrying too much about different things 3 2 4. Trouble relaxing 5. Being so restless that it's hard to sit still 2 6. Becoming easily annoyed or irritable 0 1 2 3 7. Feeling afraid as if something awful might happen 3 0 Add the score for each column Total Score (add your column scores) = If you checked off any problems, how difficult have these made it for you to do your work, take care of things at home, or get along with other people? Not difficult at all \_\_\_\_\_\_ Somewhat difficult \_\_\_\_\_\_ Very difficult \_\_\_\_\_\_ Extremely difficult \_\_\_\_\_\_ Spitzer RL, et al. Arch Intern Med. 2006;166:1092-1097.

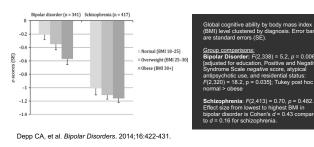
#### Association of Obesity with Cognitive Ability in **Bipolar Disorder and Schizophrenia**

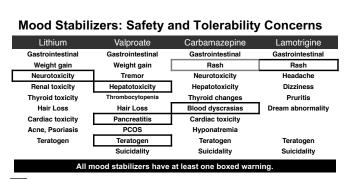
er: F(2,338) = 5.2,  $\rho = 0.006$ ucation, Positive and Negativ

on, Positive and Ne ative score, atypic d residential statu

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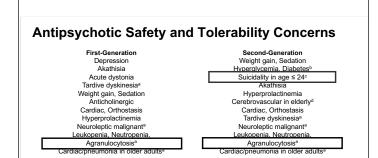
= 0.0351





= boxed warning in prescribing information.

[Package Insert]. Drugs@FDA Website.; In: Ketter TA (ed). Advances in the Treatment of Bipolar Disorder. 2005.



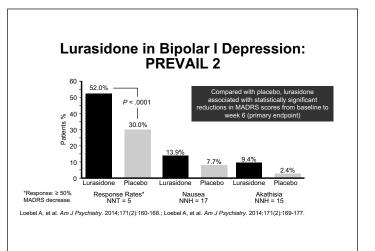
#### All Antipsychotics Have at Least One Boxed Warning

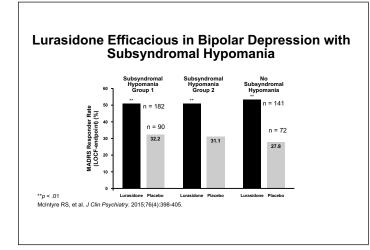
Warnings - boxed: Antipsychotic class warning/precaution; <sup>1</sup> Second generation antipsychotic class warning; <sup>c</sup>Aripiprazole, quetiapine, clanzapine + fluoxetine combination (antidepressant class warning);<sup>2</sup> risperidone, clanzapine. In: Ketter TA (ed). Advances in the Treatment of Bipolar Disorder. 2005; [Package Insert]. Drugs@DD Website.

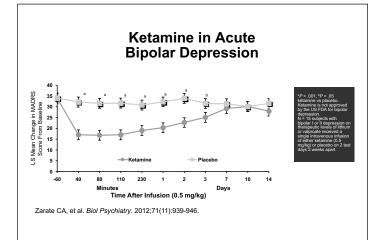
#### MOA and Safety of Agents Used in Bipolar Depression

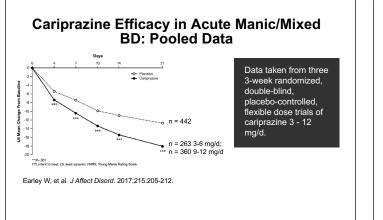
Agent	MOA	Dose Range	Comments
Lithium*	Inhibition of dopamine and glutamate; promotes GABA-mediated transmission	300 – 1800 mg/d	Diarrhea; vomiting; diabetes insipidus; ataxia; blurred vision; cardiac arrhythmias; myoclonus
Olanzapine/ Fluoxetine         Increased release of serotonin, norepinephrine, and dopamine		6/25 – 12/50 mg/d	Sedation; cardiometabolic adverse effects; weight increased; appetite increased; edema
Quetiapine XR	Dopamine (D <sub>2</sub> ), serotonin (5HT <sub>2</sub> ), and histamine (H1) antagonism; adrenergic α <sub>1</sub> receptor antagonist	50 – 300 mg/d	Sedation; cardiometabolic adverse effects; increased appetite; weight gain; fatigue; somnolence
Lurasidone	D <sub>2</sub> and 5-HT <sub>2A</sub> receptor antagonism	20 – 120 mg/d	Akathisia; extrapyramidal symptoms; somnolence
Lamotrigine**	Na channel block; Ca channel block	25 – 200 mg/d	Low starting dose and slow dose titration required to minimize serious skin reactions; nausea; somnolence; back pain; fatigue
Armodafinil*	Indirect dopamine receptor agonist	50 – 250 mg/ d	Headache, nausea, dizziness, insomnia
Cariprazine*	D <sub>2</sub> and 5-HT <sub>1A</sub> partial agonist; 5-HT <sub>2A</sub> partial antagonist	1.5 mg/d – 6 mg/d	Extrapyramidal symptoms, akathisia, dyspepsia, somnolence

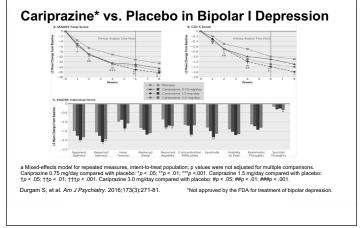
\*Not FDA-approved for bipolar depression; \*\*Lamotrigine is FDA-approved for maintenance of BD-I [Package Inserts]. Drugs@FDA Website







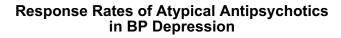


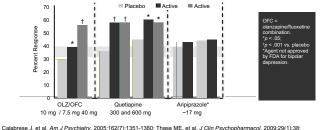


#### ISBD Recommendations for ADs in **Bipolar Depression**

- International collaboration of 70 experts in BP; 173 studies reviewed
- Adjunctive antidepressants for acute bipolar depression
  - Permissible with history of positive antidepressant response
     Avoid in the presence of ≥2 core manic symptoms, psychomotor agitation, or rapid cycling
- Antidepressant monotherapy for acute bipolar depression
- Avoid in bipolar I disorder
  Avoid in bipolar II disorder with ≥2 core manic symptoms
- Antidepressant use in mixed states
- Avoid during mood episodes with mixed features and in patients with predominantly mixed states
- Discontinue if mixed state emerges

Pacchiarotti I et al. Am J Psychiatry. 2013;170(11):1249-1262

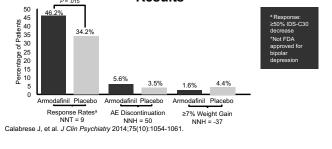




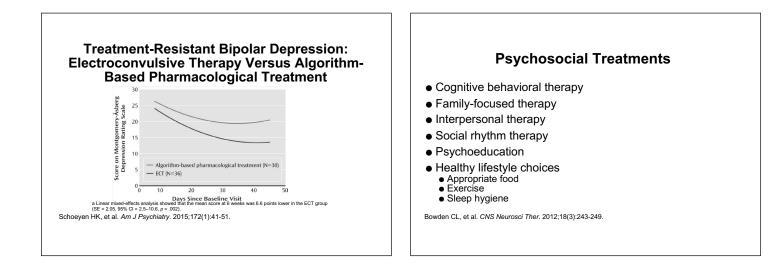
Calabrese J, et al. Am J Psychiatry. 2005;162(7):1351-1360; Thase ME, et al. J Clin Psychopharmacol. 2009;29(1):38; Tohen M, et al. Arch Gen Psychiatry. 2003;60(11):1079-1088.

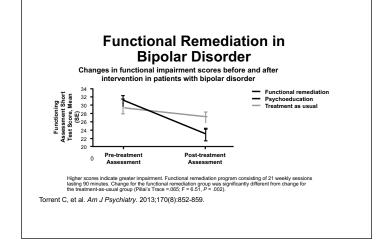
#### Meta-Analysis of Lamotrigine\* in Acute **Bipolar Depression** Risk Ratio (95% CI) Weight (%) Study SCAB2001 1.71 (1.08,2.69) 8.3 SCAA2010 1.11 (0.83,1.48) 20.6 SCA40910 1.09 (0.81,1.48) 21.7 SCA30924 1.24 (0.91,1.70) 19.9 SCA10022 1.26 (0.95.1.67) 20.7 LAMLIT 1.63 (1.05,2.53) 8.8 Overall (95% CI) 1.26 (1.10,1.44) 0.371223 Risk Ratio 2.6938 Favors Drug Favors Placebo \*Not FDA approved for bipolar depression Geddes JR. Br J Psychiatry. 2009;194(1):4-9.; Van der Loos ML, et al. J Clin Psychiatry. 2009;70(2):223-231.





#### Four-Part Case Series: Bipolar Disorder with Residual Symptoms: Live Q&A with Dr. McIntyre







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Activity Title and Faculty:

### Four-Part Case Series: Bipolar Disorder with Residual Symptoms-Q&A Session I & II

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