

Bipolar Disorder: Maintenance Therapy with Mood Stabilizers in the Outpatient Setting

All patients with bipolar disorder (I or II) as well as other specified bipolar disorder should be on maintenance therapy¹ (the earlier in the course of illness the better)²

- Goals: symptom reduction, prevention of acute mood episodes, suicide risk and attempt reduction, psychosocial function improvement, reduced violent behavior
- Concomitant psychotherapy (individual or group) is encouraged to help prevent relapse and promote medication adherence
- First-line: maintain on regimen that successfully treated an acute mood episode³
- Pharmacotherapy should be chosen via a shared decision making approach between the clinician and the patient based on prior trial and/or success with specific medications, patient comorbidities, values, and preferences
 - Lithium, anticonvulsants, second generation antipsychotics (table on back of this page)
- Treatment resistant or refractory patients
 - Electroconvulsive therapy: no absolute contraindications
 - Clozapine: associated with metabolic syndrome, agranulocytosis – must do CBC every 1-4 weeks
 - Baseline testing: WBC count, absolute neutrophil count, weight, glucose, lipids, BP, prolactin, pregnancy
 - Benzodiazepines (clonazepam, lorazepam): maintenance therapy for patients with catatonia that remits with benzodiazepine use; does not have to be indefinite; can do a benzodiazepine taper over time

Elizabeth S. O'Neill, MPH

MD Candidate 2020, Robert Larner MD College of Medicine at the University of Vermont

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¹ Goodwin GM, et al. Evidence-based guidelines for treating bipolar disorder: Revised third edition recommendations from the British Association for Psychopharmacology. [J Psychopharmacol](#). 2016 Jun;30(6):495-553. doi: 10.1177/0269881116636545. Epub 2016 Mar 15.

² Kessing LV, et al. Starting lithium prophylaxis early v. late in bipolar disorder. [Br J Psychiatry](#). 2014 Sep;205(3):214-20. doi: 10.1192/bjp.bp.113.142802. Epub 2014 Jul 10.

³ McElroy SL, et al. Relationship of open acute mania treatment to blinded maintenance outcome in bipolar I disorder. *J Affect Disord* 2008; 107:127.

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| | Baseline testing | Side effects | Starting dose | Target serum level | Surveillance | Associated risks | Avoid with |
|----------------------|---|---|--|--|--|---|---|
| Lithium | Urinalysis, BUN, Cr, thyroid function, Ca, CBC, electrolytes, pregnancy, EKG | Nausea, tremor, polyuria, polydipsia, weight gain, loose stools | 300 mg BID or TID | 0.8-1.2 mEq/L; Measure level 5-7 days after dose change 12 hrs after last dose usually in morning | Lithium level every 6-12 mos; Urinalysis, BUN, Cr every 2-3 mos during first 6 mos and every 6-12 mos after; Thyroid function 1-2x during first 6 mos and every 6-12 mos after; Ca yearly | Arrhythmia, renal impairment, thyroid impairment, cognitive impairment | Renal disease |
| Valproic acid | LFTs, CBC, electrolytes, PT, pregnancy | Weight gain, nausea, vomiting, hair loss, bruising, tremor | 250 mg BID or TID | 50-125 mcg/mL (most effective level is 80-125 mcg/mL); Measure level 2-5 days after dose increase 8-12 hrs after last dose usually in morning | LFTs, platelets, serum valproic acid level every 6-12 mos | Suicidality, liver failure, thrombocytopenia, pancreatitis | Liver disease, pregnancy |
| Carbamazepine | Screen for HLA-B*1502 allele in Asians, CBC, LFTs, electrolytes, BUN, Cr, urinalysis, pregnancy, thyroid function | Nausea, vomiting, diarrhea, hyponatremia, rash, pruritus, fluid retention | 100-200 mg daily or BID | 4-12 mcg/mL (most effective level is 8-12 mcg/mL) | Monitor for rash in first 8 weeks, LFTs, CBC, Na, serum carbamazepine level every 6-12 mos | Suicidality, leukopenia, Stevens-Johnson syndrome, toxic epidermal necrolysis, liver enzyme induction | |
| Aripiprazole | Weight, waist circumference, BP, glucose, lipids, EKG, prolactin, pregnancy | Extrapyramidal signs, headache, nausea, vomiting, constipation, insomnia, akathisia | 10-30 mg daily | | Weight at 4, 8, 12 weeks and then quarterly; waist circumference, BP, and glucose, at 12 weeks and then annually; lipids at 12 weeks and then at least every 5 years | | Extra-pyramidal sign sensitivity |
| Risperidone | Weight, waist circumference, BP, glucose, lipids, EKG, prolactin, pregnancy | Weight gain, glucose intolerance, diabetes, hyperlipidemia, extrapyramidal signs, prolactin elevation, akathisia, sedation, dyspepsia, nausea | 1-2 mg daily or divided into 2 doses | | Weight at 4, 8, 12 weeks and then quarterly; waist circumference, BP, and glucose, at 12 weeks and then annually; lipids at 12 weeks and then at least every 5 years | | Extra-pyramidal sign sensitivity, obesity |
| Olanzapine | Weight, waist circumference, BP, glucose, lipids, EKG, prolactin, pregnancy | Weight gain, glucose intolerance, diabetes, hyperlipidemia, extrapyramidal signs, sedation, constipation, dry mouth, orthostatic hypotension | 10-15 mg daily or divided into 2 doses | | Weight at 4, 8, 12 weeks and then quarterly; waist circumference, BP, and glucose, at 12 weeks and then annually; lipids at 4, 12 weeks and then at least every 5 years | | Obesity |
| Quetiapine | Weight, waist circumference, BP, glucose, lipids, EKG, prolactin, pregnancy | Weight gain, glucose intolerance, diabetes, hyperlipidemia, headache, dry mouth, constipation, sedation, dizziness, orthostatic hypotension | 100-200 mg daily or divided into 2 doses | | Weight at 4, 8, 12 weeks and then quarterly; waist circumference, BP, and glucose, at 12 weeks and then annually; lipids at 4, 12 weeks and then at least every 5 years | | Obesity |

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⁴ Stovall, J. Bipolar disorder in adults: Choosing pharmacotherapy for acute mania and hypomania. UpToDate. Last updated Nov 13, 2018.

⁵ Post, RM. Bipolar disorder in adults: Choosing maintenance treatment. UpToDate. Last updated Nov 02, 2017.

⁶ Janicak, PG. Bipolar disorder in adults and lithium: Pharmacology, administration, and management of side effects. UpToDate. Last updated Jul 13, 2018.

⁷ Stovall, J. Bipolar mania and hypomania in adults: Choosing pharmacotherapy. UpToDate. Last updated Dec 11, 2018.