# **Bipolar Disorder**

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# **Key Points**

- 1. Understand the nature of Bipolar Disorder and its different types
- 2. Understand the new enthusiasm for lithium
- 3. Understand the use of other important drugs: aripiprazole, lamotrigine, risperidone, lurasidone, and quetiapine
- 4. Recognize the value of psychotherapy
- 5. Know how to best help a family member with Bipolar Disorder

To qualify as a full manic episode, manic symptoms must last for:

- A. Two Days
- B. Four Days
- C. One week
- D. Two weeks

# C. One Week

A. Two DaysB. Four Days

C. One week

D. Two weeks



## Criteria for Bipolar Mania

- A. Persistently elevated, expansive *or irritable* mood, lasting  $\geq$  1 week
- B.  $\geq$  3 of the following
  - 1. Flight of ideas, sense that thoughts are racing
  - 2. Decreased <u>need</u> for sleep
  - 3. More talkative or pressure to keep talking
  - 4. Increased energy (leading to increased productive activity or agitation)
  - 5. Distractibility
  - 6. Excessive involvement in pleasurable activities that have a high potential for painful consequences
  - 7. Inflated self-esteem or grandiosity

Criteria for Bipolar Depression same as major depressive episode in major depressive disorder:

 $\geq$  5 of the following sx, lasting  $\geq$  2 weeks:

- 1. Depressed mood
- 2. Diminished interests or pleasure
- 3. Weight loss, or weight gain
- 4. Insomnia or hypersomnia
- 5. Psychomotor agitation or retardation
- 6. Fatigue or loss of energy (leaden paralysis)
- 7. Feelings of worthlessness or guilt
- 8. Problems thinking, concentrating
- 9. Recurrent thoughts of death, or SI

# Bipolar II Disorder



# **Bipolar II Dis**

#### Hypomanic Episodes

- Same as Bipolar I but sx present for  $\geq$  4 days
- Change in mood/functioning must be unequivocal and observable by others
- Not severe enough to cause marked impairment in functioning.

Depressions

Same as for Bipolar I, Major Depressive Dis
Note: suicide risk just as high in Bipolar II as in Bipolar I
(lifetime risk 6 - 15%)

## Cyclothymic Disorder



Hypomanic spells last < 4 days Depressive spells last < 2 weeks During a 2-yr period, hypomanic or depressed half the time 15-50% develop Bipolar I or Bipolar II Dis Treatment similar to Bipolar II Dis

# **Bipolar Disorder Unspecified**

- Depressive spells > 2 wks but hypomanic spells last < 4 days, or -</li>
- Depressive and hypomanic sx failing to meet full criteria for BD or Cyclothymic Disorder

#### Bipolar Mixed States – Considered Part of Mania or Depression

Core symptoms	Elevated mood		elevated mood + d mood or loss of i	nterest	Depressed mood or loss of interest
Manic Depressive	≥3 <5		≥3 ≥5		<3 ≥5
DSM-IV-TR	Manic		Mixed		Depressive
DSM-5	Manic	Manic with mixed features		Depressive with mixed features	Depressive
Core symptoms	Elevated mood + energy	Elevated mood + energy		Depressed mood or loss of interest	Depressed mood or loss of interest
Manic Depressive	≥3 <5	≥3 ≥3		≥3 ≥5	<3 ≥5

# Bipolar Disorder - FAQs

• Unknown

Cause

- Genetic component: 10% offspring of parent with BD have bipolar spectrum dis (vs 0.8% of controls)
- Offspring are twice as likely as controls to suffer from a serious psychiatric disorder of any type

#### **Prevalence**

- Bipolar I Dis 1%
- Bipolar II Dis 2-3%
- Cyclothymic Dis and Bipolar Unspec 2-3%

## Bipolar Disorder - FAQs

#### Patients who also have Substance Use Disorders

- Bipolar I Dis 42%
- Bipolar II Dis 26%

### Suicide Risk

- 25-50% attempt suicide; 6-15% complete
- Suicide risk same or greater in Bipolar II

## Socioeconomic Burden of BD

- 6<sup>th</sup> leading cause of disability-adjusted life-yrs
- Costs in 1991 \$7 billion direct, \$45 billion including indirect costs
- Majority of patients with Bipolar I Dis are unemployed, living in households with low income
- Most report relationship problems, divorce rates are high

# Notable People believed to have (or had) Bipolar Disorder

- Demi Lovato
- Catherine Zeta-Jones
- Carrie Fisher
- Vivian Leigh
- Jean-Claude Van Damme
- Sinéad O'Connor
- Vincent van Gough
- Virginia Woolf

- Jane Pauley
- Mariette Hartley
- Patty Duke
- Meriwether Lewis
- Winston Churchill
- Margot Kidder
- Brian Wilson
- Amy Winehouse
- Ashley Judd

# Missed Diagnosis

The typical person with bipolar disorder goes how many years before accurate diagnosis after first seeking help?

- A. 1 year
- B. 2 years
- C. 3-5 years
- D. 6-10 years

# D. 6-10 years

Depending on how onset is defined:

- Patients are ill for up to 10 years before dx of bipolar disorder
- Patients see an average of 4 physicians before diagnosis made

A. 1 yearC. 3-5 yearsB. 2 yearsD. 6-10 years

# Why is Diagnosis Missed?

 Patients tend to present when depressed, underreporting manic and (especially) hypomanic episodes.

# Why is Diagnosis Missed?

- 1. Patients tend to present when depressed or anxious, underreporting manic and (especially) hypomanic episodes.
- 2. Patients may not recognize their own hypomanic symptoms as being abnormal
- 3. Substance abuse can cloud the clinical picture
- 4. Spectrum of hypomanic symptoms can be difficult to separate from "normal" mood variation



# Treatment of Bipolar Disorder

#### Pharmacological Tools

Mood Stabilizers Anti-manic agents Medications for bipolar depression Medications for sleep and anxiety **Psychotherapeutic Tools** Psychoeducation for patient and family Intensive Out-patient Program CBT, Life coaching Substance Use Disorder treatment, if needed





#### Mania FDA Approved Med for Bipolar Disorder

Drug	Trade Name	Mania	Depression	Maintenance
Lithium		+		+
Valproate	Depakote	+		
Lamotrigine	Lamictal			+
Risperidone	Risperdal	+		+
Olanzapine	Zyprexa	+	+ with fluoxetine	+
Quetiapine	Seroquel	+	+	+
Aripiprazole	Abilify	+		+
Lurasidone	Latuda		+	
Ziprazidone	Geodon	+		
Cariprazine	Vraylar	+		
Cabamazepine ER	Tegetrol ER	+		
Oxcarbazepine	Trileptal			

Lithium is considered the best choice for Bipolar I Disorder for all of the following reasons, except:

- A. It protects the brain from lasting injury associated with bipolar mania
- B. It reduces manic symptoms more rapidly than other drugs approved for mania
- C. It is the only medication repeatedly shown to reduce the risk of suicide
- D. 40-80% of patients respond to lithium

B: Lithium is <u>not</u> the most rapidly acting bipolar medication

Lithium often takes 1-2 wks to reduce manic symptoms. Antipsychotics and valproate (Depakote) work faster

A. Protects the brainB. Acts most rapidly

C. Reduces risk of suicide D. 40-80% response rate

# Lithium - Benefits

- 40-80% response rate in bipolar mania
- Reduces manic *and* depressive episodes
  - 1/3 are "excellent" lithium responders
  - 1/3 are partial responders
  - 1/3 have limited response
- Reduces suicide risk by 60-70%
- Neuroprotective
- Many patients have minor if any side effects

## Lithium – predictors of good response

- Positive family history of bipolar dis (especially a positive family history of response to lithium)
- Classic euphoric manic episodes
- Full remission between episodes
- Later onset
- Pattern of mania, followed by depression
- Good adherence

# Lithium – Side Effects dose dependent

- Within therapeutic range (0.4 1.2)
  - Tremors
  - GI disturbance (nausea, diarrhea)
  - Increased urination  $\rightarrow$  increased thirst
  - Increased appetite  $\rightarrow$  increased weight
  - Acne (in adolescents)
- Above therapeutic range(1.2 1.6)
  - Marked tremors
  - Incoordination
- > 1.7 potential dangerous toxicity

Lithium Levels: finding the sweet spot initial target for acute full mania: 0.8 – 1.0 mmol/L for hypomania or maintenance: 0.4 - 0.6 mmol/L



## Lithium Dosing

- Adults: start at 300mg twice/day; check level in one week and adjust
- Dose in single dose at night unless SEs require divided dosing.
- Average eventual dose: 900-1200mg/day
- Children and the elderly: start at 300mg daily, check level in a week and adjust

Check dose and adjust for daily NSAIDs, ACE-Inhibitors

## Lithium – managing side effects

Nausea – change to ER preparation

Diarrhea – avoid ER preparation

Tremors – low dose propranolol (e.g., 20mg bid)

Emotional/cognitive dulling – lower dose

Polyuria – add HCTZ

Increased appetite – dietary strategies

Hypothyroidism – augment with oral thyroid medication

## Lithium – SEs with long-term use

Hypothyroidism may develop in first year of treatment, sometimes resolves spontaneously

Kidney toxicity may develop in < 5% after many years of use

Parkinsonsism Infrequent to rare, sometimes seen after years of use

Hypercalcemia (high calcium levels from elevated parathyroid hormone) Studies found incidence of 12-15% in long-term users, cause uncertain.

## Lithium: Laboratory Monitoring

#### Day #7

Lithium level, along with other baseline labs: Creatinine, TSH, calcium; EKG in elderly or in patient with h/o heart disease

1<sup>st</sup> month:

Recheck Li level ~ 7 days after each dose increase until target level achieved

#### 1<sup>st</sup> year:

Li level Q 3mo; creatinine, Calcium and TSH (thyroid) q6 mo

#### 2<sup>nd</sup> year and beyond:

Li level, creatinine, calcium and TSH q6mo 24-hr creatinine clearance test if creatinine rising

## Treatment of Mania and Hypomania

#### • Bipolar I Mania with psychosis

- Lithium + antipsychotic (e.g., risperidone 2-6mg)
- 2<sup>nd</sup> line: valproate +/- antipsychotic
- Bipolar I Mania without psychosis
  - Lithium, addition of antipsychotic optional
  - 2<sup>nd</sup> line: valproate +/- antipsychotic
- Bipolar II Hypomania
  - Quetiapine, aripiprazole or focus on stabilization by starting lithium or lamotrigine

## Depression

Drug	Trade Name	Mania	Depression	Maintenance
Lithium		+		+
Valproate	Depakote	+		
Lamotrigine	Lamictal			+
Risperidone	Risperdal	+		+
Olanzapine	Zyprexa	+	+ with fluoxetine	+
Quetiapine	Seroquel	+	+	+
Aripiprazole	Abilify	+		+
Lurasidone	Latuda		+	
Ziprazidone	Geodon	+		
Cariprazine	Vraylar	+		
Cabamazepine ER	Tegetrol ER	+		
Oxcarbazepine	Trileptal			

## **Treatment of Depression**

## Quetiapine

- Low doses (50-200mg) good for depression
- Higher doses good for mania (200-600mg)
- Highest doses good for psychosis (300-800mg)
- Anxiolytic and hypnotic effects
- Side Effects:
  - Sedation
  - Increased appetite —> weight gain
  - Possible elevation of TGs, glucose (monitoring required if used for maintenance)
  - Akasthisia, movement disorders
## **Treatment of Depression**

### Lurasidone

- Only proven useful for depression (and schizophrenia)
- Easy dosing (start with 20mg, increase to 60-80mg)
- Side Effects:
  - Sedation
  - Akasthisia, movement disorders
  - Expensive (> \$1,000/mo)

## **Treatment of Depression**

#### Lamotrigine

- Officially approved as a mood stabilizer
- Not approved for bipolar depression but widely accepted as having antidepressant effects in many patients
- Not effective for mania (though may prevent hypomania in Bipolar II)
- Side Effects:
  - Many patients report no side effects
  - 5% develop benign rash
  - < 1/1,000 develop Stevens-Johnson Syndrome</p>

# **Treatment of Depression**

### Aripiprazole (Abilify)

- Officially approved for mania and stabilization
- Not approved for bipolar depression but accepted as often having antidepressant effects in many patients
- Side Effects:
  - Antidepressant effects achieved at low doses (2-5mg)
  - Low doses have low side effects
  - Possible SEs: sedation, increased appetite, akasthisia
  - If continuing, monitor lipids and glucose
- Expensive (> \$1,000/mo)

## What about antidepressants?

- Antidepressants generally ineffective in bipolar I depression
  - 2010 analysis of 15 studies involving 2373 showed no benefit over placebo
- Antidepressant given in the absence of a mood stabilizer or antipsychotic can trigger manic switch or rapid cycling

Venlafaxine and TCAs > SSRIs and buproprion

- A subcategory of patients with bipolar II depression may be responsive to antidepressants
- If patients reports past response, appropriate to try

#### Maintenance

Drug	Trade Name	Mania	Depression	Maintenance
Lithium		+		+
Valproate	Depakote	+		
Lamotrigine	Lamictal			+
Risperidone	Risperdal	+		+
Olanzapine	Zyprexa	+	+ with fluoxetine	+
Quetiapine	Seroquel	+	+	+
Aripiprazole	Abilify	+		+
Lurasidone	Latuda		+	
Ziprazidone	Geodon	+		
Cariprazine	Vraylar	+		
Cabamazepine ER	Tegetrol ER	+		
Oxcarbazepine	Trileptal			

# **Bipolar Maintenance**

- Lithium best efficacy, suicide reduction
- Lamotrigine lowest side effects
  - But less likely to prevent or treat mania
  - An attractive option in Bipolar II if hypomania not a major concern
- Quetiapine, aripiprazole
  - Raise dose for breakthrough mania, lower for dep'n
- **Risperidone** not helpful for breakthrough dep'n
  - Associated with more SEs than alternatives
- **Olanzapine** efficacy for breakthrough mania, dep'n
  - Can cause medically serious wt gain, elevated glucose

# **Bipolar Maintenance**

*Off-label options:* 

- <u>Valproate</u> (Depakote) efficacy as mood stabilizer close to that of lithium
  - Start at 500-1,000mg, average eventual dose 1,500mg
  - On initiation, monitor CBC, LFTs and valproate level
    - 40-80 therapeutic for some, 80-100 best for mania (but more side effects)
  - 2/3 experience weight gain; GI SEs common
- <u>Oxcarbazepine</u> (Trileptal)
  - Can work for mild mania, stabilization; not for depression
  - Start at 300mg bid, average eventual dose 600mg bid
  - Unlike carbamazepine, no blood dyscrasias
  - Well tolerated, minimal effects on weight

### Summary of Pharmacological Treatment

- <u>Full Mania</u> lithium or valproate (may be combined), +/- antipsychotic (e.g., risperidone or quetiapine), especially if psychotic
- <u>Hypomania</u> low dose antipsychotic; or lithium, oxcarbazepine
- <u>Depression</u> quetiapine, lurasidone, lamotrigine or aripiprazole
- <u>Mixed States</u> mood stabilizer + quetiapine
- <u>Maintenance for Bipolar I</u> Li > valproate > antipsychotic (quetiapine, aripiprazole)
- <u>Maintenance for Bipolar II</u> lamotrigine, Li, low-dose quetiapine, aripiprazole, ? Oxcarbazepine, ?? antidepressant

# Psychotherapy for Bipolar Disorder improved outcomes

Reduces distress and illness severity by:

- Addressing stressors that can trigger or contribute to bipolar or manic episodes
- Addressing substance abuse, self-medication
- Addressing effects of illness on self-esteem
- Improving adherence
- Assisting family members in understanding the illness and how to help
- Facilitating communication with physician

## Psychotherapy for Bipolar Disorder

#### *Reduces functional impairment* by helping patient to:

- Bear residual symptoms and breakthrough episodes
- Gain coping skills to allow continuation of school, employment
- Establish rhythms of work, sleep and diet shown to improve mood stability
- Continue social/recreational activities, even if at a reduced pace

"Fake it until you make it"



"Okay, maybe I need to change my life, or maybe you could just tweak my medication."

## Self-Help for Bipolar Disorder

- DBSA
- NAMI

 Overcoming Bipolar Disorder: A Comprehensive Workbook for Managing Your Symptoms and Achieving Your Life Goals – by Mark Bauer, et al

## How Can Families Help?

- Help patient and other family members understand the illness as a treatable brain disorder
- Help get patient into treatment and assist in adhering to treatment recommendations
- Communicate important observations with care providers and, carefully, with patient himself/herself
- Get patient involved with NAMI, DBSA, other self-help
- Encourage exercise, and a daily structure, to help maintain function during periods of depression or hypomania
- Assist with obtaining disability, if appropriate

### When Standard Out-Patient Care is Not Enough

#### • IOP – Intensive Out-Patient Program

When more intensive work is required to stabilize moods and improve ability to manage symptoms and improve function

### • PHP – Partial Hospital Program

The most intensive kind of treatment to prevent (or shorten) inpatient treatment

### Hospitalization

Generally short-term, for stabilization of acutely ill individuals at risk of self-harm, or of doing serious harm to personal and family affairs.

#### Residential Treatment –

For patients who require long-term stabilization with full-time staff and support. Hard to get insurance authorization for this.

### One more time...

#### **1.** Key to diagnosis: doctors must ASK about past mania/hypomanic symptoms

- Energized, racing thoughts, extra-talkative, decreased need for sleep, lasting for a few days –
  4 for bipolar II, 7 for bipolar I
- > Ask a family member
- 2. Lithium reduces suicide and produces best outcomes:
  - Level of 0.4-0.6 often works, reduces side effects and improves adherence
  - Dosing in single bedtime dose improves adherence
  - > Labs (creat, Ca, TSH and Li level) quarterly first year, then every 6 mo
- **3.** Other useful drugs:
  - Lamotrigine for bipolar II
  - Quetiapine/aripiprazole doses go up/down for breakthrough mania/dep'n
  - **Risperidone** for acute mania, psychosis, **Lurasidone** for depression
- 4. Psychotherapy can make a big difference in facilitating function and fulfillment