THE ONE WITH TREATMENT
RESISTANT BIPOLAR DISORDER
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NO FINANCIAL RELATIONSHIPS TO DISCLOSE, BUT MAY DISCUSS OFF-LABEL USE OF COMMERCIAL PRODUCTS.

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### **OBJECTIVES**

- Describe diagnostic criteria for Bipolar I Disorder
- Identify three alternatives to lithium for Bipolar I Disorder in the geriatric nation.
- $\ensuremath{^{\bullet}}$  Identify side effects to commonly prescribed mood stabilizing medications.
- Employ strategies for mood stabilization in the geriatric patient population.

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1/2	CASE-HPI		
	82-year-old male with past medical history significant for HTN and Bipolar I		
	Disorder and HTN who presents to hospital with lower extremity erythema as well as decreased need for sleep and changes in behavior.		
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1//2	CASE-HPI CONTINUED		
11/6	6/62 / II / CO//III / CE		
Ö	Patient managed multiple decades on lithium		
	• Hospital admission for lithium toxicity earlier in year		
	Lithium stopped     Patient not immediately restarted on mood stabilizing agent (does this contradict the next		
0	slide?		
1 %	• History of prolonged admissions related to Bipolar I diagnosis	9	
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1/9	H&P		
١	Patient had prescriptions for olanzapine and valproic acid, non-adherent		
	No substance misuse		
	Allergies: Tegretol		
6	• Lives with son, enjoys gardening		
Ŷ	Active senior at baseline		

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	MANIA	STANDARD APPROACH	
5	<ul> <li>Grandiosity</li> </ul>	• Acute mania inpatient	
	<ul> <li>Decreased need for sleep</li> </ul>	<ul> <li>Mood stabilizer</li> </ul>	
	<ul> <li>Pressured/Increased speech</li> </ul>	<ul> <li>Atypical antipsychotic</li> </ul>	
)	• Flight of ideas		
)	<ul> <li>Distractibility</li> </ul>		
9	<ul> <li>Increased goal-directed activity</li> </ul>		9
1/9	Reckless behavior		- 2.1
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### LITHIUM

- $^{\bullet}$  Approved for acute mania and bipolar maintenance therapy
- Mechanism-of-action unknown but activity on sodium transporters and alters metabolism of specific neurotransmitters
- Relative contraindication with renal and cardiac impairment

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### CASE-HPI CONTINUED

- Patient admitted to medicine for cellulitis and eventually transferred to psychiatry unit
- $\bullet$  Standard approach to treatment initiated for acute mania

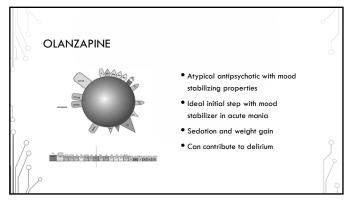
### MEDICATION OPTIONS IN ACUTE MANIA • Mood stabilizers • Atypical antipsychotics • Typical antipsychotics • Benzodiazepines

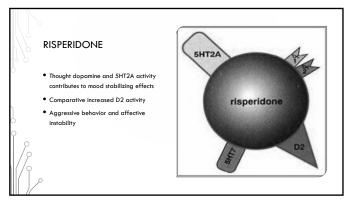
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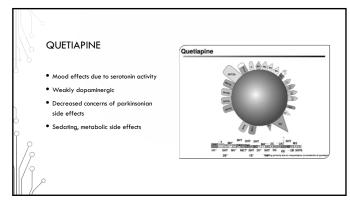
# MEDICATION TRIALS AND EFFECTS 1. Volgrotic cold and risperidose-Parkinosion side effects, intelerable, minimal deep, agitation 2. Volgrotic cold and questiopine-Parkinosion side effects and sadotion, intelerable, verying skeep minimal, agitation 3. Volgrotic cold and chiorpromazine (low-dose)-Vorying levels of sadotion, mood more stable, minimal skep, decreased agitation, mild parkinosion side effects 4. Volgrotic cold, filthum (low-dose), disorpromazine (low-dose)-increased creatinine, mood improved, varying sleep, no agitation, mild parkinosion side effects 5. Volgrotic cold, chiorpromazine (low-dose), temazepom (low-dose)-mood depressed, decreased energy, no agitation, improved sleep, mild parkinosion side effects 6. Chiorpromazine (low-dose), temazepom-improved sleep, issue sadotion, mild parkinosion side effects 7. Oxora-bazepine, ofterpromazine (low-dose), vemazepom-improved sleep, no agitation, improved mood, odequate energy, mild parkinosion side effects 1. Oxora-bazepine, ofterpromazine (low-dose), temazepom-improved sleep, no agitation, improved mood, odequate energy, mild parkinosion side effects 1. Oxora-bazepine, ofterpromazine (low-dose), temazepom-improved sleep, no agitation, improved mood, odequate energy, mild parkinosion idde effects 1. Oxora-bazepine, ofterpromazine (low-dose), temazepom-improved sleep, no agitation, improved mood, odequate energy, mild parkinosion idde effects 1. Oxora-bazepine-odequate sleep, mood lobility, agitation 2. Oxora-bazepine-parkinosion idde effects, sedation, mood lobility, varying sleep

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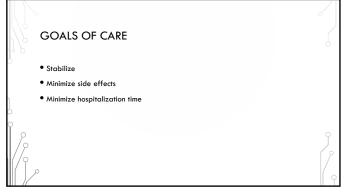
# VALPROIC ACID Acute mania and maintenance Blocks voltage-sensitive sodium channels and increases GABA CNS side effects-sedation, confusion, appetite changes, weakness Caution in elderly Multiple formations available







CHLORPROMAZINE	<i>\</i>
Antipsychotic/Neuroleptics	• Low-potency antipsychotic
Chlorpromazine: $\alpha_1$ = 5-HT $_2$ = D $_2$ > D $_1$ > M $\geq \alpha_2$ Haloperidot: D $_2$ > D $_1$ = D $_2$ $\approx \alpha_2$ 5-HT $_2$ +H $_2$ >M = $\alpha_2$ Clozapine: D $_1$ = $\alpha_1$ > 5-HT $_2$ = M > D $_2$ = D $_3$ = $\alpha_2$ ; H $_1$ Quettajpine: 5-HT $_2$ = D $_2$ = $\alpha_2$ = $\alpha_2$ ; H $_1$ Risperidone: 5-HT $_2$ > $\alpha_1$ > H $_1$ $\geq$ D $_2$ > $\alpha_2$ >> D $_1$	<ul> <li>Mood stabilizing properties</li> </ul>
	<ul> <li>CNS depression, cardiac risk,</li> </ul>
	hypotension
	• Cautious use in geriatric patients
Sertindole: 5-HT <sub>2</sub> > D <sub>2</sub> = $\alpha_4$	



# APPROACH TO GERIATRIC PATIENTS Begin treatment with standard approach Consider starting at lower doses If standard approach fails, theory-based approach for optimal medication Consider using multiple medications at lower doses Monitor closely for side effects Physical therapy

REFERENCES	
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