

[○] Disclosures

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Dr. Waters is a consultant with Janssen Pharmaceuticals. She will discuss all drugs without bias. All financial interests with ineligible companies (as noted) have been mitigated.







^O Schizophrenia and Nonadherence

- Wide variety of reasons for antipsychotic non-adherence in patients with psychiatric illness
 - StigmaAttitude and insight about medications and/or mental illness
 - Attitude and insight about m
 Feel better → discontinue
 - Feel better
 Cost
 - Comorbid conditions (i.e. substance use disorder)
 - Complex medication regimens
 - Adverse effects

Kishimoto T, et al. Schizophr Bull, 2017;44:603-19 Haddad P, et al. Patient Relat Outcome Meas. 2014:5:43-6













Antipsychotic Dose Titration & Discontinuation

Titration:

Dose increased until acute symptoms improve or intolerable adverse effects (ADEs)

- Discontinuation: No specific guidelines including for duration of taper
 - Dose usually decreased over several weeks to months to avoid withdrawal symptoms and risk of relapse

Withdrawal: Gl upset, malaise, headache
 Typically begins 2-3 days after abrupt discontinuation → may last 14 days

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Ο Switching Between Antipsychotics

5 options for switching antipsychotics:

- 1. Abrupt switch: Abruptly discontinuing one antipsychotic and starting another May lead to withdrawal symptoms if receptor affinity differs between agents
- 2. Descending taper switch: Starting new antipsychotic at full dose and slowly taper down existing antipsychotic
- 3. Ascending taper switch: Abruptly decreasing existing antipsychotic while slowly increasing dose of new antipsychotic
- 4. Cross-titration: Slowly tapering the existing antipsychotic while slowly increasing dose of new antipsychotic
- Plateau cross-taper switch: Slowly increasing dose of new antipsychotic to therapeutic dose and then slowly tapering existing antipsychotic







	nidal Symptoms (EPS) y serious adverse effects associated with blockade of rostriatal pathway
EPS Type	Description
Dyskinesia	Repetitive, involuntary, purposeless body or facial movements Ex: Lip smacking, tongue movements, finger movements
Tardive dyskinesia	Occurs after longer duration of use, may be permanent
Akathisia	Extreme form of internal or external restlessness, inability to sit still, urge to move constantly
Dystonia	Muscle tension disorder → strong muscle contractions, unusual twisting of parts of body especially neck
Pseudoparkinsonism	Mask-like facies, resting tremor, cogwheel rigidity, shuffling gait, bradykinesia

EPS Risk		(binding most specifically to D ₂ receptors)	
	High Risk	Medium Risk	Low Risk
First-Generation Antipsychotics	 Haloperidol Thiothixene Fluphenazine 	PerphenazineLoxapine	Chlorpromazine
Second-Generation Antipsychotics	Paliperidone Risperidone	Asenapine Cariprazine Lurasidone	 Aripiprazole* Brexpiprazole Clozapine Iloperidone Olanzapine Quetiapine Ziprasidone









Degree of Weight Gain Risperidone Paliperidone Quettapine Chlorpromazine Least Weight Gain Artipiprazole Ziprasidone Assengine Most PGAs

_					Every 3	
Parameter	Baseline	Week 4	Week 8	Week 12	Months Thereafter	Annually
Personal and family history of obesity, diabetes, dyslipidemia, hypertension or cardiovascular disease	x					x
BMI	x	x	x	x	x	
Waist circumference	х					х
Blood pressure	х	Every visit				
Fasting glucose, Hgb A1c	x			x		
Lipid panel	x			x (and every 5 years thereafter)		

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$^{\bigcirc}$ Audience Question 1

A 22-year-old patient with schizophrenia is being treated by a psychiatrist for the first time. Which of the following medications would be a first-line option for this patient?

- A. Oral valproic acid
- B. Long-acting injectable haloperidol
- C. Oral clozapine
- D. Long-acting injectable quetiapine

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Bipolar Disorder Treatment Goals
 Acute Treatment Goals
 Agaid control of mood,
 behavioral symptoms
 Sleep restoration
 Discontinue antidepressants
 if manic/hypomanic
 Maintenance Treatment
 Outburg
 Outburg

Classic Mood Stabilizers	SG	Other Agents	
Lithium Valproic acid (VPA) Lamotrigine Carbamazepine (CBZ)	Available as long- acting injectable med	Risperidone Paliperidone Olanzapine Aripiprazole	Oxcarbazepine Phenytoin (limited data) Not recommended: Topiramate, zonisamide, gabapentin, levetiracetam
	Not available as long-acting injectable med	Quetiapine Cariprazine Lurasidone Asenapine Clozapine	

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	Manic/Hypomanic Episode Treatment	Mixed Episode Treatme
First-line ⁸	Lithium Valproic acid (VPA) Second-generation antipsychotic (SGA) Lithium + SGA VPA + SGA	VPA Carbamazepine (CBZ) SGA
Second-line	Alternative first-line agent CBZ Haloperidol	Same as second-line manic*





^O Antidepressants in Bipolar Disorder

- Controversial
- No demonstrated benefit in depressive symptoms
- May precipitate a switch from depressive episode into a mixed or manic/hypomanic episode
 - Mood change may not occur for over 10 weeks after antidepressant is initiated
 - If used \rightarrow in combination with mood stabilizer

Berkol TD, et al. Neurosciences (Riyadh). 2019;24:45-52

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- Clozapine: Not FDA-approved but may be used for resistant bipolar disorder
- Lower doses of SGAs required than for schizophrenia in many cases
 FGAs may be effective to treat acute mania however lack efficacy for maintenance therapy
- LAI antipsychotics not specifically mentioned in guidelines but used routinely

$^{\circ}$ Audience Question 2

A patient with bipolar disorder begins treatment with long-acting injectable aripiprazole to treat a depressive episode. Two weeks later, you notice that he is unable to stop pacing and cannot sit still when waiting to pick up his medication. What is the most likely explanation?

- A. The patient is experiencing akathisia from aripiprazole
- B. The patient has switched from a depressive episode to a manic episode
- ${\tt C}. \ \ {\tt The patient is experiencing tardive dyskines is from aripiprazole}$
- D. The patient is agitated due to his diagnosis of bipolar disorder

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^O OUD & AUD Treatment Background

- · Focus on maintenance phase (not acute intoxication or withdrawal)
- Nonpharmacologic treatment also an option:
 Pharmacologic treatment more effective than nonpharmacologic for OUD

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an SE, et al. JAMA Netw Open. 2020;3:e192062;





- Count number of standardized drinks consumed
- Avoid mixing alcohol with other substances







^O Buprenorphine Formulations

Formulation	Available Products
Sublingual	Buprenorphine/naloxone SL film (Suboxone®, Cassipa®) Buprenorphine/naloxone SL tablet (Zubsolv®)
Transdermal	Buprenorphine patch (Butrans®)
Buccal	Buprenorphine buccal film (Belbuca®) Buprenorphine/naloxone buccal film (Bunavail®)
Intradermal	Buprenorphine intradermal implant (Probuphine)
Subcutaneous	Long-acting injectable SQ buprenorphine (Sublocade®, Brixadi TM)

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$^{\circ}\,$ Methadone Prescribing Considerations

- Methadone cannot be prescribed outpatient for OUD
- Pts must participate in an Opioid Treatment Program (OTP) aka "methadone clinics"
- Goal: Achieve stable maintenance dose that suppresses withdrawal, reduces opioid cravings, and blocks effects of illicit opioids to eliminate or reduce elicit opioid use

Maintenance dosing:
In most cases patients must obtain medication daily at the OTP
Initiate with 30-40 mg daily

- Increase up to 80-120 mg daily
- Take-home dosing:
- Single take-home doses are approved on days OTP is closed (i.e. Sundays, holidays)

















Ο Audience Question 3

A patient with active AUD and OUD (in remission) is seeking treatment for the first time. Which of the following treatment options would be most appropriate for this patient?

Current Medications:

- Atorvastatin 40 mg po daily
 Gabapentin 300 mg po TID
 Methadone 80 mg po daily
- A. Oral naltrexone
- B. Long-acting injectable naltrexone
- C. Oral acamprosate
- D. Long-acting injectable acamprosate

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^J Firs	st- and Se	econd-Line	Freatme	ent	
	Schizophrenia	Bipolar Disorder: Mania/Hypomania	Bipolar Disorder: Depression	OUD	AUD
First-line	FGA* SGA*	Lithium Valproic acid SGA* Combination treatment	Lithium Lamotrigine Quetiapine Lurasidone Olanzapine/ fluoxetine Other SGA*	Methadone Buprenorphine +/- naloxone*	Naltrexone* Acamprosate
Second- line	Alternative FGA or SGA*	Alternative first-line CBZ Haloperidol*	Alternative first-line Combination treatment	Naltrexone*	Disulfiram

