Understanding Medications for Treatment Court Participants

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GOALS

Understand the role of medications in treatment plans for court participants

- Medications used to treat mental illness
- Medications used to treat substance use disorders
- Reasons that treatment court participants refuse or avoid taking medications
- Strategies to promote the use of prescribed medications

The role of medications as part of a court-supervised treatment plan:

Defense and prosecution perspectives

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Major types of psychotropic medications and how they address symptoms of mental illness

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DIAGNOSES

- SCHIZOPHRENIA
- BIPOLAR DISORDER
- SCHIZOAFFECTIVE DISORDER
- SUBSTANCE INDUCED PSYCHOSIS AND MOOD DISORDERS
- MAJOR DEPRESSIVE DISORDER
- ANXIETY DISORDERS
- POST-TRAUMATIC STRESS DISORDER (CPTSD)
- OTHER TRAUMA AND STRESSOR DISORDER
- PERSONALITY DISORDERS (ANTISOCIAL, BORDERLINE, NARCISSISTIC, SCHIZOTYPAL)
- ADJUSTMENT DISORDER WITH DISTURBANCE OF CONDUCT

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SCHIZOPHRENIA

Criterion A. Two (or more) of the following (At least one of these should include 1-3):

- I. Delusions
- 2. Hallucinations
- 3. Disorganized speech
- 4. Grossly disorganized or catatonic behavior
- 5. Negative symptoms (i.e., diminished emotional expression or avolition)

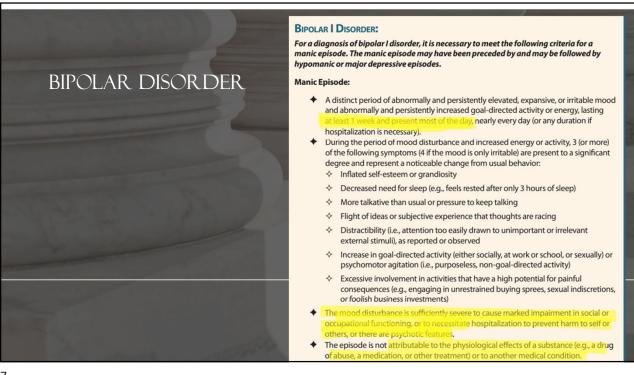
Criterion B. One or more major areas functioning, such as work, interp, are markedly below the level achieved prior to the onset.

Criterion C. Continuous signs of the disturbance persist for at least 6 months.

Criterion D. Schizoaffective disorder and depressive and bipolar disorder with psychotic features have been ruled out.

Criterion E. Substance / general medical condition exclusion.

Criterion F. If there is a history of autism spectrum disorder or other communication disorder of childhood onset, the additional diagnosis of schizophrenia is made only if prominent delusions or hallucinations are also present for at least 1 month (or less if successfully treated).



Childhood trauma has life-long effect on genes and the brain

Meaney and his colleagues studied the licking and grooming behavior of mother rats toward their pups and divided them into consistently high-licking and low-licking groups.

Pups reared by low-licking mothers carried the methyl mark on genes that normally inhibit stress responses. As adults, these animals showed a greater stress response than animals reared by high-licking mothers.

"This implies that relatively simple maternal behavior during early childhood has profound effects on genes expressed in their brains when they reach adulthood," said Szyf. The researchers found that more than 900 genes were regulated by maternal care, many of which were specific to the level of maternal behavior

Meaney MJ, Szyf M. Environmental programming of stress responses through DNA methylation: Life at the interface between dynamic environment and a fixed genome. Dialogues in Clinical Neuroscience 7: 103-123

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COMPLEX PTSD

Complex post-traumatic stress disorder (CPTSD) can result from experiencing chronic trauma, such as prolonged child abuse or domestic violence. It's closely related to PTSD and borderline personality disorder

- Anxiety
- •Having flashbacks or nightmares.
- •Avoiding situations, places and other things related to the traumatic event.
- •Heightened emotional responses, such as impulsivity or aggressiveness.
- •Persistent difficulties in sustaining relationships.

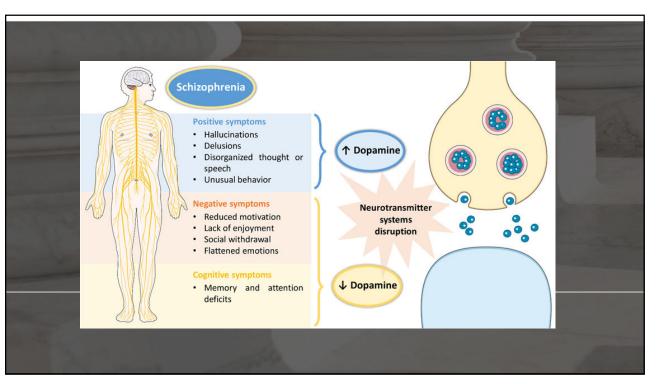
Trauma- and Stressor-Related Disorders

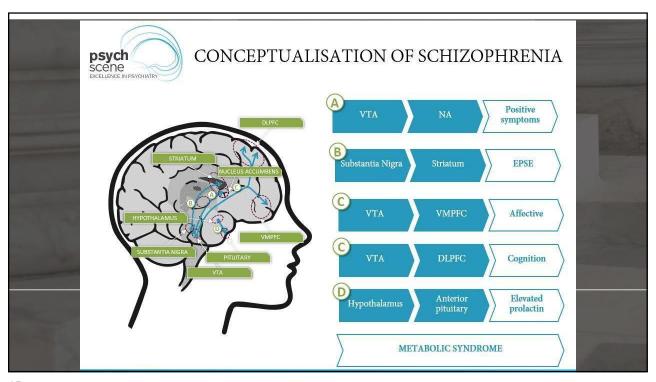
- Posttraumatic Stress Disorder
- Acute Stress Disorder
- · Adjustment Disorders
- Reactive Attachment Disorder
- Disinhibited Social Engagement Disorder
- Other Specified Trauma- and Stressor-Related Disorder
- Unspecified Trauma- and Stressor-Related Disorder

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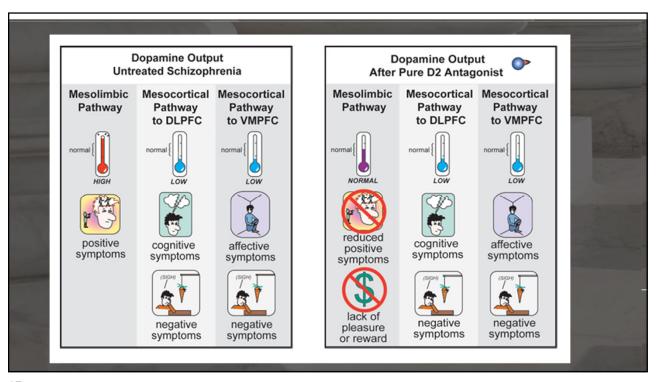
An enduring pattern of inner experience and behavior that deviates markedly from the expectations of the individual's PERSONALITY DISORDERS culture. This pattern must be manifested in 2 (or more) of the following areas: 1) Cognition (ie, ways of perceiving and interpreting self, other people, and events) 2) Affectivity (ie, the range, intensity, lability, and appropriateness of emotional response) 3) Interpersonal functioning 4) Impulse control The enduring pattern is inflexible and pervasive across a broad range of personal and social situations . The enduring pattern leads to clinically significant distress or impairment of social, occupational, or other important areas of The pattern is stable and of long duration and its onset can be traced back at least to adolescence or early adulthood The enduring pattern is not better accounted for as a manifesttion or consequence of another mental disorder The enduring pattern is not due to the direct physiological effects of a substance (eg, a drug of abuse, a medication) or a general medical condition (eg, head trauma) Adapted with permission from the American Psychiatric Association. Diagnostic and statistical manual of mental disorders. 4th ed., text revision. Washington (DC): The Association; 2000:689. Copyright 2000, American Psychiatric Association.

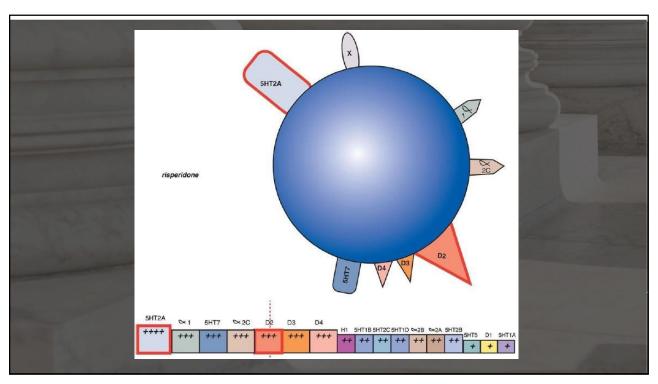




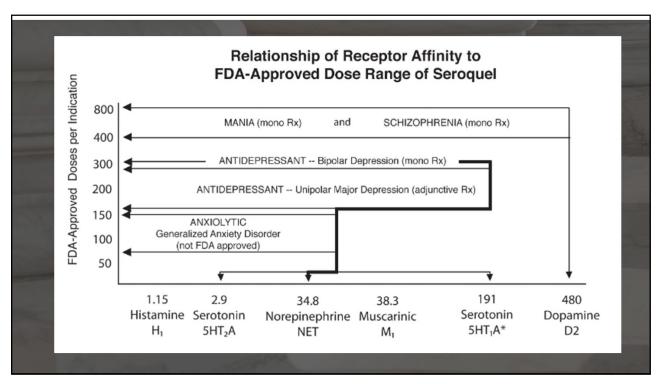


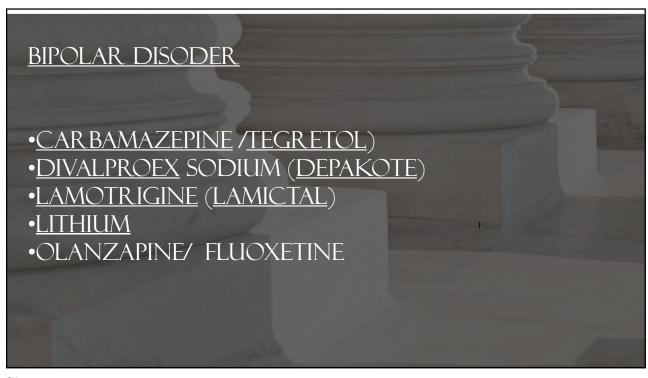
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	Class	Name	
	Conventional APs	Chlorpromazine, cyamemazine, fluphenthixol, fluphenazine, haloperidol, loxapine, mesoridazine, molindone, perphenazine, pimozide, pipothiazine, sulpiride, thioridazine, thiothixene, trifluoperazine, zuclopenthixol	
	SDAs	Clozapine, risperidone, paliperidone, olanzapine, quetiapine, ziprasidone, perospirone, zotepine, sertindole, low-dose loxapine?, low-dose cyamemazine?, iloperidone, asenapine	
	SDAs in development	SM13493/lurasidone, blonanserin, Y931, NRA0562, nemonapride	
	DPAs	Aripiprazole, low-dose sulpiride?, amisulpride?	
	DPAs in development	Bifeprunox, sarizotan, cariprazine (RGH188), 3PPP, SLV313, SLV314, ACR16, PNU 9639/OSU 6162, C11007, ACP-104, SSR-181507	
	SPAs	SPA + SDA: ziprasidone, quetiapine, clozapine SDA + DPA + SPA: aripiprazole DPA + SPA: bifeprunox	
	AP: antipsychotic; SDA: serotonin 2A dopamine 2 antagonist; DPA: dopamine 2 partial agonist; SPA: serotonin 1A partial agonist		

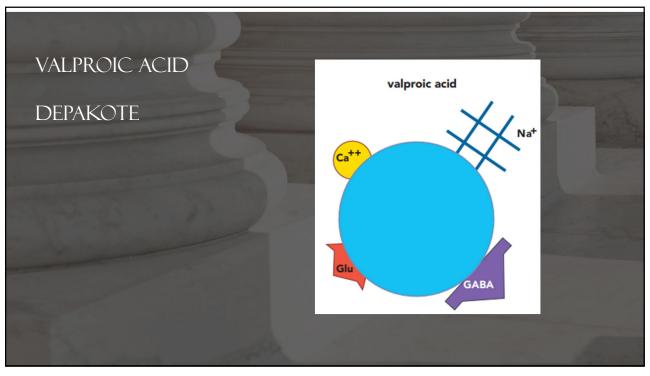


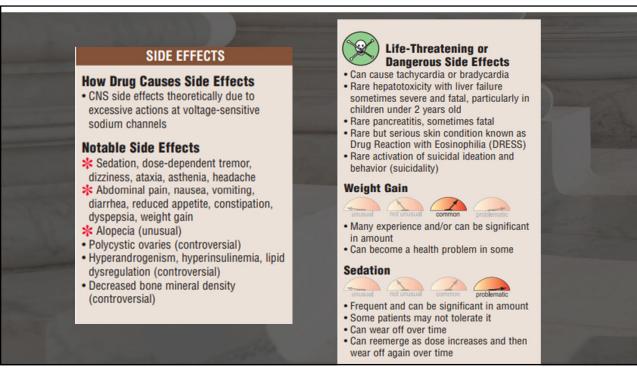


Receptor	Clinical Effects	
Dopamine D ₂	Mediation of positive psychotic symptoms (hallucinations, delusions) Adverse effects: Extrapyramidal symptoms and prolactin levels	
Serotonin 5-HT _{2A}	Balances D ₂ blockade and attenuates extrapyramidal symptoms ; Possible role in circadian rhythm and hallucinations	
Serotonin 5-HT _{1A}	Possible role in anxiety, cognition, mood	
Serotonin 5-HT ₇	Possible role in circadian rhythm, mood, thermoregulation, learning, memory, and endocrine regulation	
α-Adrenergic α ₁	Adverse effects: Dizziness, drowsiness, orthostatic hypotension	
Histamine H ₁	Adverse effects: Sedation, weight gain, impaired cognition	
Muscarinic M ₁	Adverse effects: Deficits in memory and cognition, constipation , blurred vision, dry mouth, drowsiness, tachycardia , urinary retention	
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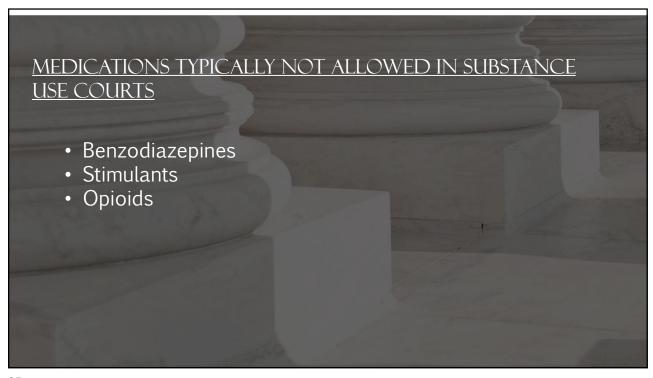


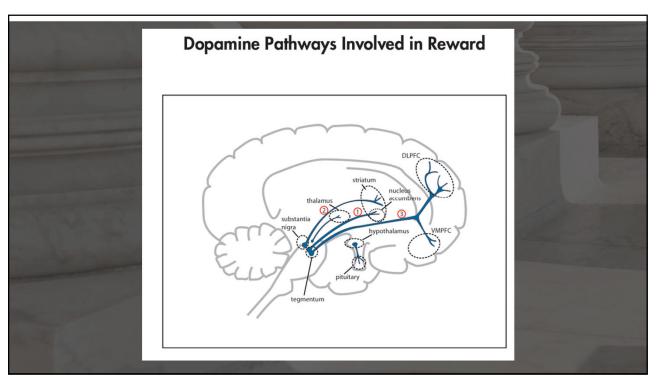






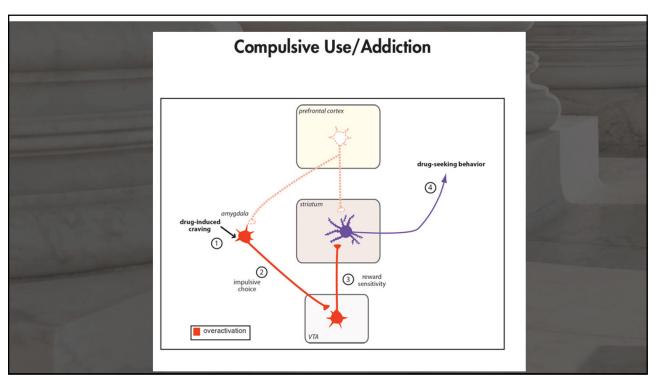
MEDICATIONS FOR SUBSTANCE USE DISORDERS



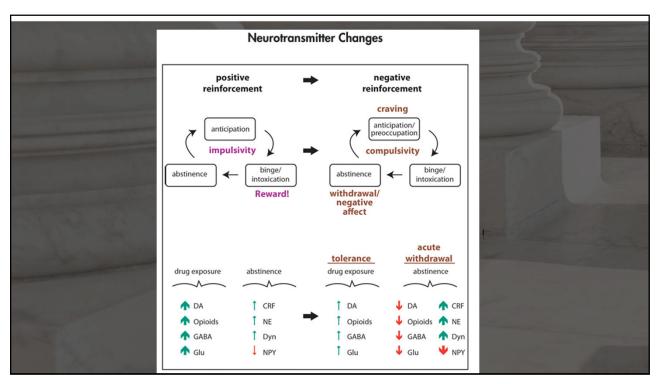


Dopamine and Drugs of Abuse **Target Mechanism of DA Increase** Stimulants Dopamine Blocks DAT on DA neurons projecting from VTA to NAc (cocaine) transporter (DAT) or releases DA from DA terminals (methamphetamine, amphetamine) Mu-opioid Disinhibits VTA DA neurons by inhibiting GABA interneurons Opioids receptor (MOR) that contain MOR in the VTA or directly activates NAc neurons that contain MOR Nicotine Nicotine receptors Directly activates VTA DA neurons via stimulation at their nicotine (mainly alpha 4 receptors and indirectly activates them by stimulating the beta 2) nicotine receptors in glutamatergic terminals to VTA DA neurons Alcohol and Multiple, including Facilitates GABAergic neurotransmission, which may disinhibit VTA DA neurons from GABA interneurons or may inhibit inhalants GABA and glutamate glutamate terminals that regulate DA release in NAc receptors Cannabinoid CB1 Regulates DA signaling through CB1 receptors in NAc neurons Cannabinoids and in GABA and glutamate terminals to NAc

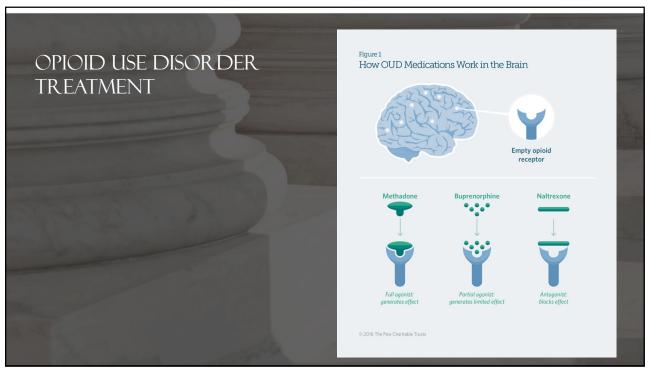
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Discussion topics

- Use of alcohol, legal drugs, and illicit drugs
- Why people refuse or avoid taking prescribed medications
- Effective (and ineffective) strategies to promote the use of prescribed medications

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Legal right to refuse medication

- Rivers v. Katz, 67 NY2d 485 (1986)
- ■Sell v. U.S., 539 US 166 (2003)

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