



Psychotropic Medications Explained:

A Practical Overview for Mental Health Providers

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Objectives:

- Examine common medications used to treat:
 - Major Depressive Disorder (MDD)
 - Generalized Anxiety Disorder (GAD)
 - Bipolar Disorder
 - Post-Traumatic Stress Disorder (PTSD)
 - Attention-Deficit/Hyperactivity Disorder (ADHD)
- Identify the main classes of medications used to treat common psychiatric disorders: antidepressants (SSRIs, SNRIs), mood stabilizers, antipsychotics, benzodiazepines, and stimulants. Also, understand their primary indications, mechanisms of action, and therapeutic benefits.
- Review potential side effects and risks associated with commonly prescribed psychiatric medications.
- Examine the newest psychotropic medications and emerging treatments of Major Depressive Disorder (MDD), Anxiety disorders, Bipolar Disorder, Post-Traumatic Stress Disorder (PTSD), and Attention-Deficit/Hyperactivity Disorder (ADHD).

Drug Nomenclature:

- Generic Name – fluoxetine (not capitalized)
 - ➔ Most states require pharmacists to offer generic when available unless prescriber designates otherwise
- Brand or Trade Name – Prozac (capitalized, symbol R with a circle around it)

(Bloom, 2023)

Pharmacological Classification:

- Drugs are classified based on their mechanism of action (MOA)
- Drugs in a particular classification include only those drugs that have the same or similar MOA (Bloom, 2023)
 - Example: Serotonin-Norepinephrine Reuptake Inhibitors (SNRIs): Inhibit the reuptake of serotonin and norepinephrine from the synapse into the presynaptic neuron

Drugs in a Pharmacological Class Have Similar Attributes:

- ▶ FDA Indications
- ▶ MOA
- Contraindications and precautions
- Interactions
- Adverse reactions and side effects

Psychotropics:

- Medications used to treat mental health disorders
 - Most commonly, psychotherapeutic medications work by altering the activity of neurotransmitters.
 - Neurotransmitters are the body's chemical messengers, which transmit messages or signals from neuron (nerve cell) to neuron (NIH, 2023)

Five Main Classes of Psychotropic Medications:

- Antidepressants
- Antipsychotics
- Anti-anxiety
- Mood Stabilizers
- Stimulants



Treatments of Major Depressive Disorder

Major Depressive Disorder (MDD): Antidepressants

- ➔ Neurotransmitters including dopamine, norepinephrine, and serotonin are key players in mood regulation
- ➔ Original Monoamine Hypothesis of Depression: Patients with depression are deficient in serotonin, norepinephrine, and dopamine
 - ➔ Contemporary research links depression to repeated exposure to stress/chronic stress
 - ➔ Stress increases cortisol levels in the brain
- ➔ Antidepressants may serve as a stimulus in activating brain- derived neurotrophic factor (BDNF)
 - ➔ This could explain why antidepressants can take two weeks or longer to take effect (Liu, et al., 2017; Wegmann, 2021)

Major Depressive Disorder (MDD): Antidepressants

- Antidepressant Medications:
 - Selective Serotonin Reuptake Inhibitors (SSRIs)
 - Serotonin Norepinephrine Reuptake Inhibitors (SNRIs)
 - Atypical antidepressants
 - Tricyclic Antidepressants (TCAs)
 - Monoamine Oxidase Inhibitors (MAOIs)
 - Hybrids

Major Depressive Disorder (MDD): Antidepressants – SSRIs

- Examples include: fluoxetine (Prozac), fluvoxamine (Luvox), paroxetine (Paxil), sertraline (Zoloft), citalopram (Celexa), escitalopram (Lexapro)
- Mechanism of Action (MOA): Block the reuptake of serotonin
 - Well-tolerated
 - Safer in overdose
- Side Effects:
 - Often transient (with exception of weight gain)
 - Activation, nausea, insomnia, sexual dysfunction
 - Often anorgasmia, impotence is rare
 - Late onset side effects: Apathy and decreased spontaneity
- Monitor for “serotonin syndrome” (hyperthermia, muscle rigidity, cardiovascular collapse)
- Also used to treat obsessive compulsive disorders, general and social anxiety disorders, panic disorder, post-traumatic stress disorder, premenstrual dysphoric disorder, and bulimia nervosa (Bloom, 2023; Preston & Johnson, 2019; Wegmann, 2021)

Major Depressive Disorder (MDD): Antidepressants – SNRIs

- Examples include: duloxetine (Cymbalta), venlafaxine (Effexor), desvenlafaxine (Pristiq), and levomilnacipran (Fetzima)
- MOA: Block the reuptake of serotonin and norepinephrine
- Side Effects:
 - Less sexual dysfunction compared to SSRIs
 - May increase blood pressure
- Duloxetine may be beneficial in patients who have co-occurring pain disorders (Wegmann, 2021)

Major Depressive Disorder (MDD): Antidepressants – Atypical

- Bupropion (Wellbutrin)
 - MOA: Blocks reuptake of norepinephrine and dopamine
 - May be added to SSRI as adjunctive treatment or to offset sexual side effects
 - FDA approved for smoking cessation
- Remeron (Mirtazapine)
 - MOA: Works indirectly on norepinephrine and serotonin
 - Beneficial for sleep, anxiety, and increasing appetite
 - May cause weight gain (Wegmann, 2021)

Major Depressive Disorder (MDD): Antidepressants – TCAs

- Examples include: amitriptyline, clomipramine, doxepin, imipramine, trimipramine, desipramine, nortriptyline
 - MOA: Primarily block reuptake of serotonin and norepinephrine
 - Block acetylcholine and histamine receptors
 - Inhibit sodium and calcium channels
- Second-line treatment due to less tolerable side effects and toxicity in overdose (Hirsh & Birnbaum, 2023)

Major Depressive Disorder (MDD): Antidepressants – MAOIs

- ➔ Examples include: tranylcypromine (Parnate), phenelzine (Nardil), selegiline (Emsam)
- ➔ MOA: Inhibit the enzyme monoamine oxidase, which breaks down serotonin, dopamine and norepinephrine
- ➔ Most effective of the antidepressants, particularly for atypical depression
- ➔ Prescribed as last resort due to severe side effects such as hypertensive crisis, food and drug interactions, potentially fatal drug-drug interactions, and withdrawal symptoms (Wegmann, 2021)

Major Depressive Disorder (MDD): Antidepressants – Hybrid Antidepressants

- ➔ Vilazodone (Viibryd)
 - ➔ MOA: Similar action of the SSRIs with added anxiolytic actions of buspirone (Buspar)
 - ➔ Fewer sexual side effects and less incidence of weight gain
- ➔ Vortioxetine (Trintellix)
 - ➔ MOA: Similar to Viibryd
 - ➔ Fewer sexual side effects and less incidence of weight gain (Wegmann, 2021)

Major Depressive Disorder (MDD): Additional Augmentation Strategies

- Lithium (Eskalith)
 - Primarily used in treatment of bipolar disorder
 - Effective in treatment resistant depression and reducing suicidal thinking
- Stimulants
- Liothyronine (Cytomel)
- Antipsychotics
 - Aripiprazole (Abilify), olanzapine/fluoxetine (Symbax), quetiapine (Seroquel), brexpiprazole (Rexulti), and cariprazine (Vraylar), most recently approved in 2021 (Heldt, 2017)

Major Depressive Disorder (MDD): Updates in Depression Treatment

- ▶ Esketamine (Spravato) – nasal spray (isomer of ketamine)
 - ➔ Approved in 2019 as adjunctive treatment in combination with antidepressants for treatment-resistant depression (TRD)
 - ➔ Schedule III controlled substance
 - ➔ Medication is self-administered intranasally under supervision of a provider
 - ➔ Patients must be monitored for 2 hours due to potential for increase in blood pressure
 - ➔ Patients are not permitted to drive on the day medication is administered
 - ➔ Benefits are immediate and maintained with continual use
 - ➔ Doses per week decrease as you get further into treatment. Maintenance is one dose every 1-2 weeks (Wegmann, 2021)

Major Depressive Disorder (MDD): Updates in Depression Treatment

➤ Intravenous Ketamine

- General anesthetic, NMDA receptor antagonist
- Used off-label for TRD
- Demonstrated effectiveness in multiple randomized controlled trials
- Three infusions week one, two infusions week two, then once per week for three weeks
- Dosed monthly for maintenance (Wegmann, 2021)

Major Depressive Disorder (MDD): Updates in Depression Treatment

- ➔ Dextromethorphan-Bupropion (Auvelity):
 - ➔ MOA: Norepinephrine-dopamine reuptake inhibitor and NMDA receptor antagonist
 - ➔ Approved in 2022 for treatment of MDD in adults
 - ➔ May be difficult to get covered by insurance (UpToDate, n.d.)

Major Depressive Disorder (MDD): Updates in Depression Treatment

- ➔ Cariprazine (Vraylar)
 - ➔ Antipsychotic with dual action at D2 and D3 receptors
 - ➔ Previously approved for treatment of schizophrenia and all poles of bipolar
 - ➔ 2022 received FDA approval as adjunctive treatment to antidepressants for treatment of MDD
 - ➔ Low risk of metabolic and motor side effects (Sachs et al., 2023)

Treatments of Anxiety Disorders

Anxiety Disorders

- ➔ Most Common Anxiety Disorders
 - ➔ Generalized anxiety disorder (GAD)
 - ➔ Social anxiety disorder (SAD)
 - ➔ Panic disorder
 - ➔ Phobia related disorders
- ➔ Antidepressants: SSRIs and SNRIs are considered first-line treatment when considering pharmacotherapy (NIH, 2024)

Anxiety Disorders: Treatments

- ➔ Benzodiazepines
 - ➔ Examples include: lorazepam (Ativan), clonazepam (Klonopin), alprazolam (Xanax), temazepam (Restoril)
 - ➔ MOA: Work on GABA receptor
 - ➔ Used effectively short-term or while titrating antidepressant
 - ➔ Not recommended for long-term use due to potential for tolerance, abuse addiction, and worsening symptoms
 - ➔ Side effects: Sedation, cognitive and memory impairment, dizziness, and falls in elderly (Heldt, 2017)
- ➔ Buspirone (Buspar)
 - ➔ MOA: Serotonin receptor partial agonist
 - ➔ Does not work on GABA receptors, thus, not sedating
 - ➔ Minimal to no withdrawal effects or addiction potential
 - ➔ Counsel patients it does not work immediately and may take several weeks (Heldt, 2017)

Anxiety Disorders: Treatments

- ➔ Propranolol (Inderal)
 - ➔ MOA: Beta Blocker that crosses blood brain barrier
 - ➔ Used to treat hypertension, glaucoma and migraine headaches
 - ➔ Helpful in treating anxiety conditions, specifically performance anxiety (off-label)
- ➔ Gabapentin (Neurontin)
 - ➔ MOA: Anticonvulsant, similar to GABA, blocks calcium channels
 - ➔ Schedule V controlled substance
 - ➔ Works to reduce anxiety by acting as an anxiolytic (off-label)
 - ➔ Similar relief to benzodiazepines, with less risk of tolerance and abuse (Heldt, 2017)
- ➔ Hydroxyzine (Vistaril or Atarax)
 - ➔ MOA: Antihistamine
 - ➔ Used off-label to treat anxiety
 - ➔ Side effect of sedation (Heldt, 2017)



Treatments of Bipolar Disorder

Bipolar Disorders: Mood Stabilizers

- ➔ Lithium (Eskalith)
 - ➔ MOA: widely unknown
 - ➔ Single most effective medication available for treatment and prevention of both manic and depressive episodes in bipolar
 - ➔ One of two medications (clozapine) proven to have anti-suicide effect
 - ➔ Not used first- line due to extremely narrow therapeutic window
 - ➔ Harsh side effect profile that may permanently impact multiple organs in the body
 - ➔ Teratogenic in pregnancy (Wegmann, 2021)

Bipolar Disorders:

Anticonvulsants

- ➔ Examples include: divalproex (Depakote), lamotrigine (Lamictal), carbamazepine (Tegretol), and topiramate (Topamax)
- ➔ Divalproex (Depakote)
 - ➔ MOA: inhibits sodium channels, and increases GABA
 - ➔ Extremely effective in treating and preventing manic episodes
- ➔ Lamotrigine (Lamictal)
 - ➔ MOA: widely unknown, thought to inhibit sodium channels
 - ➔ Effective in treatment and prevention of bipolar depression, with little effect on mania
 - ➔ Well-tolerated
 - ➔ Risk of Steven-Johnson Syndrome
 - ➔ Life threatening dermatological disease that can result in sloughing of epidermis (medical emergency)
 - ➔ To mitigate start dose low and increase slowly (Bloom & Amber, 2017; Wegmann, 2021)

Bipolar Disorders:

Anticonvulsants (cont'd)

- ➔ Carbamazepine (Tegretol)
 - ➔ MOA: Inhibits sodium channels and impacts GABA
 - ➔ Effective in treatment and prevention of manic episodes
 - ➔ High incidence of drug-drug interactions
 - ➔ Not recommended in pregnancy
 - ➔ May cause Stevens-Johnson Syndrome (Wegmann, 2021)

Bipolar Disorders: Antipsychotics

- ➔ Examples include: Olanzapine (Zyprexa), quetiapine (Seroquel), risperidone (Risperdal), paliperidone (Invega), ziprasidone (Geodon), lurasidone (Latuda), aripiprazole (Abilify), cariprazine (Vraylar), and clozapine (Clozaril)
- ➔ MOA: Block dopamine and select serotonin receptors
- ➔ Mainstay of treatment for schizophrenia
- ➔ May be sedating
- ➔ Metabolic side effects: weight gain, hyperlipidemia, hyperglycemia
- ➔ Motor side effects such as Parkinson like symptoms, akathisia, tardive dyskinesia, and dystonia (Wegmann, 2021)

Bipolar Disorders:

Updates in Bipolar Treatment

- ➔ Antipsychotic: Lumateperone (Caplyta)
 - ➔ Approved in 2020 for the treatment of schizophrenia and bipolar depressive episodes
 - ➔ Lower risk of weight gain and motor side effects



Treatments of Post-Traumatic Stress Disorder (PTSD)

Post-Traumatic Stress Disorder (PTSD)

- ▶ Trauma – Focused Psychotherapy is still the mainstay of treatment
- ▶ Medications are used to target symptoms such as nightmares and hyperarousal
- ▶ Antidepressants
 - ➔ Examples include: SSRIs-paroxetine (Paxil) and sertraline (Zoloft) are FDA approved to treat PTSD
- ▶ Mood Stabilizers
 - ➔ Potential benefit with the use of mood stabilizers in conjunction with other treatment modalities
- ▶ Atypical antipsychotics
 - ▶ May assist in reducing flashbacks, anxiety, and improving sleep

Post-Traumatic Stress Disorder (PTSD)

(cont'd)

- ▶ Benzodiazepines
 - ▶ Commonly prescribed, although benefits are not well proven clinically
 - ▶ May be used at low doses to assist in sleep
 - ▶ Caution advised due to high prevalence of co-occurring substance use disorders in this population
- ▶ Steroids
 - ▶ It is hypothesized people who have lower cortisol levels post trauma may benefit from cortisone treatment immediately after trauma
- ▶ MDMA and ketamine
 - ➔ These drugs have psychedelic properties that may reduce anxiety, improve relaxation, promote feelings of euphoria and well-being
 - ➔ May assist in tolerance of exposure therapy (Wegmann, 2021)



Treatments of Attention-Deficit Hyperactivity Disorder (ADHD)

Attention-Deficit Hyperactivity Disorder (ADHD)

- Attention-deficit/hyperactivity disorder (ADHD) is the most commonly diagnosed behavioral disorder in children, and the numbers are expected to rise
 - The CDC reported that in 2022, over 7 million (11.4%) U.S. children ages 3–17 years were diagnosed with ADHD, an increase of 1 million compared to 2016
 - The elevated numbers aren't limited to children.
 - According to a 2021 report in the Journal of Managed Care & Specialty Pharmacy, 8.7 million adults in the U.S. have ADHD
- Psychostimulants
 - Two main classes: methylphenidate (MPH) and amphetamine (AMP)

Attention-Deficit Hyperactivity Disorder (ADHD)

▶ Psychostimulants

- ➔ Two main classes: methylphenidate (MPH) and amphetamine (AMP)
- ▶ Both are delivered into the body and reach the brain through various delivery mechanisms
 - ▶ Immediate- release
 - ▶ Osmotic-release
 - ▶ Time- release
 - ▶ Transdermal system
 - ▶ Pro- drug release

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): Psychostimulants

- ▶ Immediate- Release Delivery Mechanism
 - ▶ Examples include: Ritalin, Focalin, Dexedrine, and Adderall
 - ▶ Pill formulation
 - ▶ Absorbed rapidly in 30 minutes
 - ▶ Peak serum levels attained in 60-90 minutes
 - ▶ Last for about 2-3 hours
 - ▶ Dose at least three times per day

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): Psychostimulants

▶ Osmotic-Release

- ▶ Referred to as osmotic-release oral system (OROS)
- ▶ Example: Concerta (only available as MPH)
- ▶ MOA: Osmotic pump system
- ▶ Comprised of an outer layer immediate-release drug overcoat methylphenidate, with an inner core that releases methylphenidate at a steady rate over 6-8 hours via an osmotic pump
- ▶ Taken once daily, but mimics three times per day dosing with immediate release
- ▶ Due to slow-release mechanism, Concerta is good for patients who need greater control of symptoms later in the day compared to morning hours

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): Psychostimulants

- ▶ Time-Release
 - ▶ Available as MPH and AMP
 - ▶ Examples include: Ritalin LA, Focalin XR, Metadate CD, and Adderall XR
 - ▶ Capsule formulation containing the active ingredient in form of coated beads
 - ▶ Beads dissolve at different times over 8 hours, making the medication time-released
 - ▶ Capsules can be opened and sprinkled on food
- ▶ Also available in liquid formulations
 - ▶ Example includes: Quillivant XR (methylphenidate ER suspension)
 - ▶ Similar to long-acting Ritalin, but in liquid form making dosage titration easier
 - ▶ Great for children who have trouble swallowing solid formulations

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): Psychostimulants

- ▶ Transdermal
 - ▶ Available as MPH
 - ▶ Example: Daytrana patch
 - ▶ Patch applied each morning and removed at 5pm to allow drug to eliminate from body
 - ▶ May cause permanent depigmented skin
- ▶ Pro-Drug
 - ▶ Available as AMP
 - ▶ Examples include: Vyvanse (the only pro-drug available)
 - ▶ MOA: Similar to Adderall XR, however, Adderall can be open, crushed and snorted
 - ▶ Vyvanse remains inactive until swallowed and absorbed in stomach. Once absorbed, it converts to active ingredient dAMP which then enters bloodstream

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): Psychostimulants

- ▶ Stimulant Side Effects
 - ▶ Generally well tolerated, even with long-term use
 - ▶ Common side effects: loss of appetite, weight loss, headache, nausea, anxiety, irritability, motor tics, muscle tension, and insomnia
 - ▶ Abuse potential due to increase in dopamine in the reward center of brain
 - ▶ This is rare when taken appropriately in pill or capsule form

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): Non-Stimulant Options

- ▶ Antidepressants

- ▶ Bupropion (Wellbutrin)

- ▶ MOA: Enhance actions of norepinephrine and dopamine in the prefrontal cortex
 - ▶ Stimulants are still superior in clinical trials
 - ▶ May be used to treat co-occurring depression
 - ▶ Not a controlled substance

- ▶ Atomoxetine (Strattera)

- ▶ MOA: Norepinephrine reuptake inhibitor
 - ▶ Black box warning pertaining to risk of suicide in children and adolescents
 - ▶ Stimulants are still superior in clinical trials
 - ▶ No long- term safety data available in children
 - ▶ Has been linked to liver damage

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): Non-Stimulant Options

- ▶ Alpha-2 Agonists
 - ▶ Guanfacine ER (Intuniv)
 - ▶ MOA: Antihypertensive medication that works on prefrontal cortex to improve executive function
 - ▶ Used to treat anxiety, aggression, irritability, tics, and Tourette's syndrome
 - ▶ Approved to treat children/adolescents (ages 6-17)
 - ▶ Side effects: often mild, but may be related to low blood pressure (headache, nausea, drowsy, and changes in cardiac rhythm)

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): New Treatments in ADHD

- ▶ Mydayis (AMP)
 - ▶ Similar to Adderall XR, but has a longer duration of 16-hours compared to 12 with Adderall
- ▶ Aptensio XR (MPH)
 - ▶ Similar to Concerta, but more rapid onset
- ▶ Jornay PM (MPH)
 - ▶ Taken at bedtime, and starts working 8-10 hours later
 - ▶ Good for children who have trouble remembering to take medication in the morning, and those who struggle with symptom management early in the morning

(Wegmann, 2021)

Attention-Deficit Hyperactivity Disorder (ADHD): New Treatments in ADHD

- ▶ Qelbree
 - ▶ Approved in 2020 for patients ages 6 and older
 - ▶ Non-stimulant option that inhibits the reuptake of serotonin and norepinephrine
 - ▶ Black- box warning for suicidal thoughts and behaviors
 - ▶ Side effect of sedation, but generally well- tolerated

(Nasser et al., 2022)



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