

Depression Medications	
α2-Adrenergic Receptor Antagonists	
MOA	α2-antagonist (\uparrow release of NE and 5-HT), potent 5-HT₂ /5-HT₃ receptor antagonist and H₁ antagonist (sleepy/appetite effects)
Use	Major depression (especially in patient w/ weight loss and/or insomnia) → EX: cancer patient w/ N/V, \downarrow appetite, + MDD
EX	Mirtazapine (Remeron)
SE's	Sedation (desirable in depressed patients w/ insomnia), \uparrowappetite, wt gain (may be desirable in elderly/anorexic), dry mouth .
Notes	Adrenergics like guanfacine and clonidine are very useful in hyperactive ADHD and sometimes PTSD/irritability in general. Mirtazapine/Remeron is a multi-receptor drug and most of its psychotropic effect is from 5-HT activity, actually.
Serotonin Receptor Antagonists and Agonists	
MOA	Primarily blocks 5-HT₂, α1-adrenergic, and H₁ receptors; also weakly inhibits 5-HT reuptake.
Use	Insomnia (high doses are needed for antidepressant effects)
EX	Trazodone (Desyrel) and Nefazodone (Serzone)
SE's	Sedation, nausea, priapism, postural hypotension. Called traZZZoBONE → b/c sedative and male-specific side effects.
Nicotinic ACh Receptor Partial Agonist	
Use	Smoking cessation.
EX	Varenicline
SE's	Sleep disturbance, mood changes, suicidality, cardiovascular events

Antipsychotic Medications	
Typical Antipsychotics (1st generation)	
MOA	Block D₂ receptors (\uparrow [cAMP]) → Low/High Potency can cause QT prolongation (450 = number you are looking for)
Use	Schizophrenia (positive sx's), psychosis, bipolar disorder, delirium, Tourette syndrome, Huntington disease, OCD.
Low Potency	Chlorpromazine , (Corneal deposition), Thioridazine (retinal deposition) → Cheating Thieves are LOW Blocks HAM – Histamine (sedation) Muscarinic (dry mouth, constipation), α1 (orthostatic hypoTN)

Antipsychotic Medications

Typical Antipsychotics (1st generation) cont.

High Potency

Trifluoperazine, Fluphenazine, Haloperidol → Try to Fly High

- **Llibido, osteoporosis, amenorrhea, gynecomastia** Tuberoinfundibular: block dopa → ↑ prolactin → ↓ GnRH → ↓ FSH/LH
- **Extrapyramidal symptoms** - Nigrostriatal: ACTH/dopamine in balance → block dopamine → ↑ ACTH

ADAPT	Time	Extrapyramidal Symptoms	Treatment
Acute Dystonia	Hrs-days	Muscle spasm, torticollis, stiffness, oculogyric crisis	IM : (1) Benztropine . (2) Diphenhydramine (antihistamine and anticholinergic effects), (3) Lorazepam (at muscle)
Akathisia	Days - mo	Restlessness, ↑ risk for suicide	Propranolol (hint: ask MOA of drug – beta blockade)
Parkinsonism	Days - mo	Bradykinesia, tremor, rigidity, masklike facies,	Benzotropine (NOT L-dopa b/c ↑ dopamine → ↑ psychosis) Trihexyphenidyl , maybe amantadine
Tardive dyskinesia	Mo-yrs	Repetitive orofacial movements - dopamine hypersensitivity	STOP antipsychotic (may worsen when first stop) START atypical → Quetiapine or Clozapine

- **Neuroleptic malignant syndrome: Fever (>103), Rigidity, ↑CPK** → rhabdo, AKI, (HINT: **N M S** → **F R C**) → due to **Dopamine dysreg**
 - **Causes**: typical/atypical antipsychotics, antiemetics, antiparkinson med w/drawal, infection, surgery
 - **FEVER**: Fever, Encephalopathy (AMS), Vitals unstable, ↑ Enzymes, Rigidity (lead pipe), leukocytosis
 - **VS**: Serotonin Syn → **NMS** (↑ **Rigidity**), **SS** (↑ **DTRs/clonus**, **GI sxs**)
 - **Tx**: (1) **STOP drug** (most important intervention) (2) **Hydrate, cooling blankets**
 - No response to stopping drug → (3) **Dantrolene** (inhib Ca²⁺ release)/ **Bromocriptine/ Amantadine** (4) **ECT**

Notes

IV and IM = more QTc and torsades risk, PO is much less.
Our hospital has policy that only can get IV haloperidol while on telemetry (ICUs and 8E)

Atypical Antipsychotics (2nd Gen)

MOA	Blocking D2 receptor AND serotonin 2A receptor blockade
Use	Schizophrenia (positive/negative sxs), bipolar disorder , OCD , anxiety disorder , depression , mania , Tourette syn

Antipsychotic Medications continued on next page →