

ANXIOLYTICS

Anti-Anxiety Medications — NCLEX-RN Pharmacology Mastery



CNS Depressants



Neuro / Psych System



High-Alert Medications



NGN 2026 Test Plan



1. DRUG OVERVIEW

- ▶ **Generalized Anxiety Disorder (GAD)** — chronic worry lasting ≥ 6 months
- ▶ **Panic disorder** — sudden, intense episodes
- ▶ **Acute anxiety / agitation** — PRN use, ER, pre-op
- ▶ **Alcohol withdrawal** — benzos prevent seizures, delirium tremens (DTs)
- ▶ **Status epilepticus** — IV lorazepam (Ativan) or diazepam (Valium) = first-line
- ▶ **Muscle spasms / skeletal relaxation** — diazepam
- ▶ **Procedural sedation** — midazolam (Versed)
- ▶ **Insomnia (short-term)** — limited, due to tolerance/dependence
- ▶ **PTSD, OCD, social anxiety** — SSRIs / SNRIs (first-line long-term)

2. MECHANISM OF ACTION

BENZODIAZEPINES (-zepam, -zolam):

Bind GABA-A receptor → ↑ **FREQUENCY** of Cl^- channel opening → hyperpolarization → ↓ neuronal firing → **CNS depression**

BUSPIRONE (BuSpar):

Partial 5-HT_{1A} serotonin agonist → modulates serotonin & dopamine → ↓ anxiety

⚡ *NO GABA activity = non-sedating, non-addictive*

SSRIs / SNRIs (first-line chronic):

Block reuptake of serotonin (± norepinephrine) → ↑ synaptic levels → ↓ anxiety over 4-6 weeks

HYDROXYZINE (Vistaril / Atarax):

H₁ histamine antagonist → sedation + anxiolysis → non-addictive, PRN safe

BARBITURATES (rarely used now):

↑ **DURATION** of Cl^- channel opening → deeper, more dangerous CNS depression → narrow therapeutic range

💎 **KEY DISTINCTION:** Benzos = ↑ frequency (safer). Barbiturates = ↑ duration (deadlier). Both use GABA, but benzos need endogenous GABA to work → ceiling effect = safer overdose profile.

3. THERAPEUTIC EFFECTS

- ▶ ↓ subjective anxiety, worry, restlessness, panic
 - ▶ ↓ muscle tension, skeletal muscle relaxation
 - ▶ Sedation, drowsiness, sleep induction (benzos)
 - ▶ Anterograde amnesia (useful pre-op with midazolam)
 - ▶ Seizure cessation (benzos — within minutes IV)
 - ▶ Prevention of alcohol withdrawal seizures / DTs
 - ▶ **Patient reports:** calmer, sleeping better, fewer panic attacks
 - ▶ **Objective signs:** ↓ HR, ↓ BP, relaxed posture, coherent speech
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4. SIDE EFFECTS & ADVERSE REACTIONS

✓ COMMON

- ▶ Drowsiness, sedation, dizziness
- ▶ Confusion (esp. elderly)
- ▶ Ataxia, slurred speech, unsteady gait
- ▶ Dry mouth, blurred vision
- ▶ Fatigue, headache
- ▶ Orthostatic hypotension
- ▶ Anterograde amnesia
- ▶ Tolerance / dependence

🚑 SERIOUS / LIFE-THREATENING

- ▶ **Respiratory depression** (RR < 12)
- ▶ **Benzo + Opioid = BLACK BOX** → fatal respiratory failure
- ▶ **Withdrawal seizures** — can kill if stopped abruptly
- ▶ Paradoxical agitation (elderly, kids)
- ▶ Coma, cardiovascular collapse
- ▶ Serotonin syndrome (SSRIs/SNRIs)
- ▶ Falls & hip fractures (Beers List)
- ▶ Teratogenic — cleft lip/palate (Cat D)
- ▶ Suicidal ideation (SSRIs — black box < 24 y/o)

🚑 **BENZO TOXICITY TRIAD:** Sedation → Slurred speech → Slow breathing (RR < 12). Progresses to stupor → coma. **ANTIDOTE = FLUMAZENIL (Romazicon).**

5. PRIORITY NURSING CONSIDERATIONS

- ▶ → **ASSESS** RR, LOC, BP, HR, pulse ox *before & after* each dose
- ▶ → **MONITOR** for sedation scale, fall risk, mental status
- ▶ → **HOLD** if RR < 12, SBP < 90, excessive sedation, or new confusion
- ▶ → **NOTIFY** provider for respiratory depression, paradoxical reaction, suicidal ideation
- ▶ → **NEVER** give with opioids, alcohol, or other CNS depressants without caution
- ▶ → Have **FLUMAZENIL** + oxygen + bag-valve-mask available for IV benzos
- ▶ → Fall precautions: bed low, call light, non-skid socks, ambulate with assist
- ▶ → **Taper slowly** — never D/C abruptly (withdrawal seizures = deadly)
- ▶ → Pregnancy category D (benzos) — avoid in pregnancy / lactation
- ▶ → Schedule IV controlled substance — count, lock, document

 **CONTRAINDICATIONS:** severe respiratory depression, sleep apnea, narrow-angle glaucoma, myasthenia gravis, acute alcohol intoxication, pregnancy, severe liver disease.

 **DRUG INTERACTIONS:** opioids, alcohol, antihistamines, antipsychotics, muscle relaxants (all additive CNS depression). **Grapefruit juice** ↑ benzo levels (CYP3A4). **Buspirone + MAOI = hypertensive crisis.**

6. LABS & DIAGNOSTICS

- ▶ **LFTs (AST/ALT)** — benzos metabolized in liver; ↑ enzymes = ↓ dose
- ▶ **BUN / Creatinine** — renal clearance of metabolites
- ▶ **CBC** — baseline, rule out other causes of fatigue
- ▶ **Urine drug screen** — benzos detectable for days–weeks
- ▶ **Pregnancy test (hCG)** — before starting in women of childbearing age
- ▶ **Albumin** — benzos highly protein-bound → low albumin = ↑ free drug = toxicity
- ▶ **ABG / SpO₂** — if respiratory depression suspected
- ▶ **Serum drug level** — rare; clinical assessment is primary

💎 **CRITICAL VALUES:** SpO₂ < 90%, RR < 10, GCS drop ≥ 2 points → suspect toxicity → call RRT.

7. ADMINISTRATION & SAFETY

- ▶ **Routes:** PO, IV, IM, SL, rectal (diazepam gel for status epilepticus at home)
- ▶ **IV push:** give *slowly* (e.g., lorazepam ≤ 2 mg/min) — rapid push = apnea
- ▶ **IM diazepam:** erratic absorption — avoid if possible
- ▶ Have **resuscitation equipment** + **flumazenil** at bedside for IV benzos
- ▶ Continuous pulse ox + cardiac monitor for IV / procedural sedation
- ▶ **Do NOT crush** extended-release tablets (XR, ER, CR)
- ▶ **Short-term use** preferred for benzos (2–4 weeks ideal, < 4 months max)
- ▶ Schedule **IV controlled substance** — two-nurse waste, locked storage, count q shift
- ▶ **Bupirone:** take consistently with/without food (avoid grapefruit)
- ▶ **SSRIs:** give in AM to avoid insomnia; with food to ↓ GI upset

 **HIGH-ALERT MEDICATION** — ISMP classifies IV benzos as high-risk. Double-check dose, route, rate. Two-RN verification for pediatric/geriatric doses.

8. PATIENT EDUCATION

- ▶ "**Do NOT stop suddenly** — withdrawal can cause seizures. Always taper with your provider."
- ▶ "**No alcohol**, opioids, sleep aids, or cold medicines without asking — can stop your breathing."
- ▶ "**No driving** or heavy machinery until you know how it affects you."
- ▶ "**Rise slowly** from bed or chair — you may feel dizzy."
- ▶ "Call 911 for: trouble breathing, extreme sleepiness, confusion, fainting."
- ▶ "**Buspirone takes 2–4 weeks** to start working — keep taking it daily, not as needed."
- ▶ "**SSRIs take 4–6 weeks** for full anxiety relief — do not stop early."
- ▶ "**Avoid grapefruit juice** — it can raise drug levels dangerously."
- ▶ "Tell every provider and dentist you take this medication."
- ▶ "Use **non-drug strategies**: CBT, deep breathing, exercise, therapy, sleep hygiene."
- ▶ "Not safe in pregnancy — use reliable contraception; tell provider if pregnant."
- ▶ "Store **locked away** — high risk of misuse / diversion."

9. NCLEX TEST TRAPS ⚠️

- ▶ **TRAP:** "Give buspirone for acute panic" → ❌ Buspirone has *slow onset* (2–4 weeks). Use a benzo for acute anxiety.
- ▶ **TRAP:** Confusing **flumazenil** (benzo reversal) with **naloxone** (opioid reversal). Don't mix them up!
- ▶ **TRAP:** Giving benzos to elderly → ✅ on **Beers List** (↑ falls, delirium). Question the order.
- ▶ **TRAP:** "Patient on benzos missed 3 doses at home, now shaking / anxious" → Think **withdrawal**, not worsening anxiety. Withdrawal = seizure risk.
- ▶ **TRAP:** Priority = ABCs, NOT anxiety. Respiratory depression > agitation in triage.
- ▶ **TRAP: Benzo + opioid = BLACK BOX.** Never assume it's safe just because both were ordered.
- ▶ **TRAP:** Alcohol withdrawal → give a **benzo** (NOT Antabuse, NOT naltrexone). CIWA-guided lorazepam is gold standard.
- ▶ **TRAP:** Buspirone + MAOI = **hypertensive crisis**. Buspirone + grapefruit = toxicity.
- ▶ **TRAP:** SSRIs + triptans / tramadol / St. John's Wort = **serotonin syndrome**.
- ▶ **TRAP:** "Patient says meds aren't working after 3 days" (SSRI/buspirone) → teach they take weeks; do NOT stop.
- ▶ **TRAP:** Paradoxical reaction — elderly patient becomes *more* agitated on benzo → HOLD and notify.
- ▶ **TRAP:** Question asks "most appropriate first intervention" for benzo overdose → **Airway & breathing FIRST**, then flumazenil.

10. MEMORY BOOSTERS & MNEMONICS

💊 **"-PAM" & "-LAM"** endings = Benzodiazepines → *diazePAM, lorazePAM, alprazoLAM, midazoLAM, clonazePAM, temazePAM*

🧠 **GABA = "Getting All Buzzed Asleep"** → CNS depression mechanism

🔄 **FLUMAZENIL = "FLUshes out benzos"** (reversal agent) — think "Flu Ma z en il" for benzos, "Nal-ox-one" for opioids

🕒 **Buspirone = "Busy waiting"** → weeks to work, NOT for acute anxiety, NOT addictive

🚫 **"Benzos Breathe Badly"** → respiratory depression is the #1 killer

🍷 **"Grapefruit Grabs Benzos"** → inhibits CYP3A4 → ↑ drug levels → toxicity

🆘 **Benzo Toxicity = "3 S's"** → *Sedation, Slurred speech, Slow breathing*

⚠️ **"Never Stop Suddenly"** → benzo withdrawal = seizures (mimics alcohol withdrawal — both use GABA)

👴 **"Benzos & Beers don't mix"** → Beers List drugs to avoid in elderly

⬆️ **SSRI onset: "4 to 6"** → 4–6 weeks for full anxiety relief (vs 2–4 weeks for buspirone)

MOST TESTED ANXIOLYTICS (NCLEX HIGH-YIELD)

Generic (Brand)	Class	Top NCLEX Use	Key Distinction
Lorazepam (<i>Ativan</i>)	Benzo	Alcohol withdrawal, status epilepticus	Short-intermediate acting, safe in liver disease (no active metabolites)
Diazepam (<i>Valium</i>)	Benzo	Seizures, muscle spasms, alcohol withdrawal	Long half-life; active metabolites → avoid in elderly
Alprazolam (<i>Xanax</i>)	Benzo	Panic disorder, acute anxiety	Fastest onset, short-acting = HIGHEST abuse potential
Midazolam (<i>Versed</i>)	Benzo	Procedural/conscious sedation	Rapid onset IV; causes anterograde amnesia — great pre-op
Clonazepam (<i>Klonopin</i>)	Benzo	Panic disorder, seizures	Long-acting; good for maintenance, not acute
Buspirone (<i>BuSpar</i>)	Non-Benzo	GAD (long-term)	2–4 wks onset, NO sedation, NO dependence — safe in recovery
Hydroxyzine (<i>Vistaril</i> / <i>Atarax</i>)	Antihistamine	PRN anxiety, itching, pre-op sedation	Non-addictive, safe in substance use history
Sertraline (<i>Zoloft</i>)	SSRI	GAD, panic, PTSD, OCD — first-line	4–6 wks onset; black box suicide warning < 24 y/o
Escitalopram (<i>Lexapro</i>)	SSRI	GAD, depression	Best tolerated SSRI; fewest drug interactions
Paroxetine (<i>Paxil</i>)	SSRI	Panic, social anxiety	Worst discontinuation syndrome; anticholinergic; Cat D
Venlafaxine (<i>Effexor XR</i>)	SNRI	GAD, panic	Monitor BP — can ↑ diastolic; severe withdrawal if stopped
Duloxetine (<i>Cymbalta</i>)	SNRI	GAD + neuropathic pain	Check LFTs; avoid in heavy alcohol use

Generic (Brand)	Class	Top NCLEX Use	Key Distinction
Propranolol (<i>Inderal</i>)	Beta-blocker	Performance/situational anxiety	Blocks physical symptoms (tremor, tachycardia); NOT for GAD



BIG-PICTURE COMPARISON:

- **Acute anxiety / panic / withdrawal / seizures** → Benzodiazepine (fast, short-term)
- **Chronic GAD** → SSRI / SNRI (first-line) or Buspirone (non-addictive alternative)
- **PRN, history of addiction** → Hydroxyzine or Buspirone
- **Performance anxiety (public speaking)** → Propranolol



CLINICAL JUDGMENT SNAPSHOT (NCJMM)

⚠️ #1 PRIORITY RISK

RESPIRATORY DEPRESSION — especially with opioid co-administration (BLACK BOX). Airway compromise is the fastest killer. Sleep apnea + benzo = danger.

💥 WHAT HARMS PATIENT FIRST

Oversedation → **hypoxia** → **respiratory arrest**. In elderly: falls, hip fractures, delirium. In withdrawal: seizures can be fatal.

🩺 FIRST NURSING ACTION

ASSESS ABCs first (airway, breathing, circulation). Check RR, SpO₂, LOC *before* giving dose. If overdose → O₂ + RRT → prepare **flumazenil**. If withdrawal → seizure precautions + benzo replacement.

🎯 NGN PRIORITY SEQUENCE (if benzo overdose):

- 1 Airway — position, suction, OPA if needed
- 2 Breathing — O₂, bag-valve-mask if RR < 10
- 3 Circulation — IV access, fluids, cardiac monitor
- 4 Drug — Flumazenil 0.2 mg IV (caution: can precipitate seizures in chronic users)
- 5 Disposition — ICU monitoring, psych consult, safety planning

🎯 NGN PRIORITY SEQUENCE (if benzo withdrawal):

- 1 Seizure precautions — padded rails, suction, IV access
- 2 Vital signs q15 min — HR, BP, temp (autonomic instability)
- 3 CIWA-Ar scoring if alcohol co-use
- 4 Replace with long-acting benzo (lorazepam or diazepam) — taper slowly
- 5 Thiamine + folate if alcohol-related; monitor electrolytes