Appropriate Use of Oral Benzodiazepines

Questions often arise regarding the safe prescribing of benzodiazepines. The charts below provide information to help you choose the most appropriate agent and dose based on indication, age, hepatic function, and drug interactions. Prescribing and deprescribing tips are included, as well as patient counseling points. **Information in the charts may differ from product labeling**.

Benzodiazepine Oral Dosing and Pharmacokinetics

Drug	**Approximate Equivalent Oral Dose**	**Adult Dosing** (oral) (also see **footnote a**)	**Metabolism** (also see **footnote c**)
Alprazolam (*Xanax*, etc., generics)	0.5 mg[3]	**Anxiety, Panic** *Immediate release*: • Initial: 0.25 mg to 0.5 mg two or three times daily, or lower in elderly (anxiety or panic)[1] • Usual: 0.25 to 0.5 mg three times daily(anxiety) or 0.5 mg three times daily (panic)[2] • Max total daily dose: 4 mg (anxiety) or 10 mg (panic), divided.[1] Consider a max total daily dose of 0.75 mg/day, divided, in the elderly.[1] *Extended release* (U.S.) (**panic**): • Initial: 0.5 mg to 1 mg once daily[1] • Usual: 3 to 6 mg once daily[1] • Max total daily dose: 10 mg[1]	CYP3A4 to active metabolites (likely clinically insignificant)[1] **Half-life**: 12 to 15 hours[2]
Bromazepam (Canada)	3 mg[2]	**Anxiety** • Initial: 6 to 18 mg/day, divided[2] • Usual: 6 to 30 mg/day, divided[2] • Max total daily dose: 60 mg, divided[5]	Conjugation[2] **Half-life**: 8 to 30 hours[2]
Chlordiazepoxide (*Librium* [U.S.], generics	10 to 25 mg[2,3]	**Anxiety** • Initial: 5 mg two to four times daily[1] • Usual: 5 to 10 mg three to four times daily, or 20 to 25 mg three to four times daily (more severe symptoms)[1] • Max total daily dose: 100 mg, divided. Consider a max total daily dose of 20 mg/day, divided, in the elderly.[1] **Alcohol withdrawal** 50 to 100 mg every four to six hours as needed. Max total daily dose: 300 mg, divided[1]	CYP1A2 to desmethyldiazepam,[b] then to oxazepam by CYP3A4 and CYP2C19 (minor)[1,2,4] **Half-life**: 100 hours[2,d]

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Drug	**Approximate Equivalent Oral Dose**	**Adult Dosing** (oral) (also see **footnote a**)	**Metabolism** (also see **footnote c**)
Clobazam (*Onfi*, *Sympazan* [U.S.], generics	10 mg[2]	**Seizures (adjunct)** • Initial: 5 mg once or twice daily (once daily in poor CYP2C19 metabolizers)[1] • Max total daily dose: 40 mg, divided[1]	CYP3A4, CYP2C19, and CYP2B6 to active metabolites[1] **Half-life**: 71 to 82 hours[1,d]
Clonazepam (*Klonopin* [U.S.], generics)	0.25 mg[2]	**Seizures** • Initial: 0.5 mg three times daily[1] • Usual: 2 to 8 mg/day, divided[1] • Max total daily dose: 20 mg, divided[1] **Anxiety**: 0.25 to 0.5 mg twice daily[2] **Panic** • Initial: 0.25 mg twice daily[1] • Max total daily dose: 4 mg, divided. Consider a max total daily dose of 1.5 mg/day, divided, in the elderly.[1]	CYP3A4 to inactive metabolites[1] **Half-life**: 20 to 60 hours[2]
Clorazepate (*Tranxene* [U.S.], generics)	7.5 mg[2]	**Anxiety** • Initial: 3.75 mg to 15 mg twice daily, or 7.5 mg to 15 mg once daily at bedtime.[1] • Usual: 15 mg twice daily[1] • Max total daily dose: 60 mg, divided. Consider a max total daily dose of 15 mg in the elderly.[1] **Alcohol withdrawal** Day 1, 30 mg x 1, then 30 to 60 mg over 24 hours, in three or four divided doses. Day 2, 45 to 90 mg, divided. Day 3, 22.5 mg to 45 mg, divided. Day 4, 15 to 30 mg, divided. Taper. Discontinue when patient is stable and tapered to 7.5 mg once daily.[1] Max total daily dose: 90 mg, divided.[1] **Seizures, adjunct (U.S.)** • Initial: 7.5 mg two or three times daily[1] • Max total daily dose: 90 mg, divided[1]	Decarboxylated in gastrointestinal tract to desmethyldiazepam[b] (active moiety), then to oxazepam by CYP3A4 and CYP2C19 (minor).[1] **Half-life**: 100 hours[2,d]

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Drug	Approximate Equivalent Oral Dose	Adult Dosing (oral) (also see footnote a)	Metabolism (also see footnote c)
Diazepam (*Valium*, generics)	5 mg[2]	**Anxiety**: 2 to 10 mg two to four times daily. Max total daily dose: 40 mg, divided. Consider a max total daily dose of 5 mg, divided, in the elderly.[1] **Seizures (adjunct)**: 2 to 10 mg two to four times daily. Max total daily dose: 40 mg, divided.[1] **Muscle spasms (adjunct)**: 2 to 10 mg three to four times daily. Max total daily dose: 40 mg, divided.[1,6] Consider a max total daily dose of 5 mg, divided, in the elderly.[1] **Alcohol withdrawal** 10 mg three to four times daily x 24 hours, then 5 mg three to four times daily as needed.[6,7]	CYP3A4, CYP2C9, CYP2C19, and CYP1A2 to desmethyldiazepam[b] (major), temazepam (minor), and oxazepam (minor)[1,2] **Half-life**: 100 hours[2,d]
Estazolam (U.S.)	1 mg[3]	**Insomnia** • Initial: 0.5 to 1 mg at bedtime[1] • Max daily dose: 2 mg at bedtime. Consider a max dose of 0.5 mg at bedtime in the elderly.[1]	CYP3A4 to active metabolites (likely clinically insignificant)[1] **Half-life**: 10 to 24 hours[1]
Flurazepam	15 mg[2]	**Insomnia**: 15 to 30 mg at bedtime. Consider a max of 15 mg at bedtime in the elderly.[1]	CYP3A4 and CYP2C9 to active metabolites.[1,2] **Half-life**: 47 to 100 hours[1,d]
Lorazepam (*Ativan*, generics)	1 mg[2]	**Anxiety** • Initial: 1 to 3 mg/day, divided two or three times daily[1] • Usual dose: 2 to 6 mg/day, divided[1] • Max total daily dose: 10 mg, divided. Consider a max total daily dose of 2 mg/day, divided, in the elderly.[1] **Insomnia due to anxiety or situational stress**: 1 to 4 mg at bedtime as needed.[1] Consider a max dose of 1 mg at bedtime as needed in the elderly.[1]	Glucuronidation to inactive metabolite[1] **Half-life**: 9 to 22 hours[1]
Nitrazepam (Canada) (*Mogadon*)	5 mg[2]	**Insomnia**: 2.5 to 10 mg at bedtime (5 mg max in elderly)[8]	CYP2E1 to inactive metabolite.[2] **Half-life**: 16 to 55 hours[2]

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Drug	Approximate Equivalent Oral Dose	Adult Dosing (oral) (also see footnote a)	Metabolism (also see footnote c)
Oxazepam	15 mg[2]	**Anxiety** • Initial: 10 mg to 15 mg three to four times daily[1] • Max total daily dose: 120 mg, divided. Consider a max total daily dose of 30 mg/day, divided, in elderly.[1] **Alcohol withdrawal**: 15 to 30 mg three to four times daily. Elderly may need a lower dose initially.[1]	Glucuronidation to inactive metaboltes[1] **Half-life**: 5 to 15 hours[1]
Quazepam (U.S.) (*Doral*, generics)	7.5 mg[3]	**Insomnia** 7.5 to 15 mg at bedtime. Consider a max of 7.5 mg at bedtime in the elderly.[1]	CYP3A4 (major) and CYP2C9 and CYP2C19 to active metabolites[1] **Half-life**: 47 to 100 hours[1,d]
Temazepam (*Restoril*, generics)	15 mg[3]	**Insomnia** • Initial: 7.5 mg to 30 mg at bedtime[1] • Max 30 mg at bedtime. Consider a max of 15 mg at bedtime in elderly.[1]	Glucuronidation to inactive metabolites[1] **Half-life**: 8 to 15 hours[1]
Triazolam (*Halcion*, generics)	0.25 mg[2]	**Insomnia** • Initial: 0.125 to 0.25 mg at bedtime[1] • Max 0.5 mg at bedtime. Consider a max of 0.125 mg at bedtime in the elderly.[1]	CYP3A4 to inactive metabolites[1,2] **Half-life**: 1.5 to 5.5 hours[1]

a. In general, start with the lowest dose in elderly, debilitated, or hepatically impaired patients and increase slowly.[1,2]
b. Desmethyldiazepam: long-acting metabolite responsible at least in part for therapeutic and toxic effects of diazepam, clorazepate, and chlordiazepoxide.[3]
c. For the **elderly**, and for patients with **liver disease**, benzos that undergo glucuronidation (lorazepam, oxazepam, temazepam) are preferred over those that undergo oxidative metabolism (e.g., CYP450), especially those with long-acting metabolites: flurazepam, chlordiazepoxide, clorazepate, quazepam, and diazepam.[1-3] See our chart, *Cytochrome P450 (CYP) Drug Interactions*, for help identifying potential drug interactions based on metabolic pathway.
d. Includes active metabolite(s).

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Preferred Oral Benzodiazepine per Condition

Benzodiazepines are among the treatment options for several conditions but are not usually the drugs of first choice for chronic use. The chart below addresses preferred benzodiazepines for given conditions when a benzodiazepine might be appropriate.

Condition	Preferred Benzodiazepine	Comments
Alcohol withdrawal	• Chlordiazepoxide, diazepam, lorazepam, or oxazepam.[9] • See our chart, *Outpatient Alcohol Detox and Relapse Prevention*, for details to help you choose among them.	• Benzodiazepines are the drugs of choice for management of alcohol withdrawal.[9] • Parenteral forms of diazepam and lorazepam are available.
Anxiety	• No agent clearly superior in regard to efficacy.[3] • Consider agent with medium or long half-life which has been used more extensively for anxiety disorders: clonazepam, lorazepam, or diazepam.[3] Shorter acting agents pose higher risk of withdrawal, rebound, and abuse.[3,10]	• Ideally, for short-term use only (e.g., for two to six weeks, until antidepressant starts to work, then taper).[3] • Other roles include treatment of patients who have failed other medications (e.g., SSRI, SNRI, pregabalin), patients who cannot tolerate other medication classes.[11] • Alprazolam is one of the most abused benzodiazepines; a quick onset leads to euphoria.[3] Accounts for one in ten ER visits in U.S. due to drug misuse.[12] More toxic in overdose than other benzos.[12] Missed doses or discontinuation can cause significant withdrawal quickly.[10] May be difficult to taper/discontinue.[3] Risk of breakthrough anxiety with immediate-release product.[3] Sustained-release product (U.S.) may have less abuse potential.[3] • Diazepam has fastest onset (<1 hour).[2] • Diazepam duration of effect shorter than lorazepam despite long half-life; it is lipophilic and quickly redistributes out of the brain.[3,13] • Consider propranolol for performance anxiety.[3] • For more information on treatment of anxiety, see our chart, *Pharmacotherapy of Anxiety: Beyond the First Line Agents*.
Insomnia	• Temazepam (*Restoril*, generics) (favorable benefit vs risk).[14]	• See our chart, *Comparison of Insomnia Treatments* (U.S. subscribers; Canadian subscribers), for non-benzodiazepine alternatives.
Panic attacks	• Clonazepam, lorazepam, or diazepam (most evidence of efficacy).[11]	• Benzodiazepines generally not first-line.[11] Can use as adjunct to antidepressant to achieve symptom control acutely or to relieve residual anxiety.[11] • See comments under "Anxiety" regarding alprazolam.
Low back pain	• Most evidence for diazepam.[15]	• See our chart, *Muscle Relaxants*, for details regarding use. • For alternatives, see our charts, *Treatment of Acute Low Back Pain* and *Treatment of Chronic Low Back Pain*.

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Tips for Prescribing and Deprescribing Benzodiazepines

<table>
<tr><th>Goal</th><th>Suggested Strategies or Resources</th></tr>
<tr><td>Educate patients about benzodiazepine safety.</td><td>

In the U.S., benzodiazepines are dispensed with a MedGuide that covers risks.[17]
Consider these patient counseling points when talking to patients about starting a benzodiazepine:

Like all medications, benzos have risks. These risks include:

Feeling sleepy, dizzy, clumsy, or confused.[6] This can cause falls or accidents.[22]
If you take a benzo at bedtime, you might get up without being fully awake and do something you do not know you are doing. This could include driving, eating, talking, or sleepwalking.[1]
Tolerance. This means that over time, your benzo might not work as well as it once did.[16]
Dependence. This means that some patients don’t feel well when they stop using benzos. This occurs most often when the benzo is taken regularly for several days to weeks.[17]
Mood or behavior problems.[7]
Misuse or abuse.[17]

To use benzos safely, you should:

Avoid alcohol. Also avoid narcotic pain meds like oxycodone or hydrocodone. These mixtures can cause you to become too sedated, or even slow your breathing to a dangerous level.[17]
Take your benzo exactly as prescribed. Do not increase the dose on your own.[7]
Report unusual changes in behavior or mood.[7]
Seek immediate medical care for trouble breathing.[17]
Keep your benzo in a safe place. Tell only a few people you trust that you are taking it. Do not share it with others.

</td></tr>
<tr><td>Safely initiate a benzodiazepine.</td><td>

Consider all therapeutic options for management of the patient’s condition, and provide information about non-drug alternatives.[17]
Limit dosages and durations to the minimum required.[21] Have an exit plan.[23]
Some experts suggest follow-up in one to four weeks.
Screen for potentially problematic drug interactions (e.g., opioids).[19,21]
Before prescribing and throughout treatment, assess the patient’s risk of abuse, misuse, and addiction.[17] Screening and assessment tools are available at: https://www.drugabuse.gov/nidamed-medical-health-professionals/screening-tools-resources/chart-screening-tools.

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Goal	Suggested Strategies or Resources

Educate patients about benzodiazepine **discontinuation** and get patient buy-in.	First, ask patients what their goals and preferences are regarding their benzodiazepine.[16] Involve the caregiver, or care team in a long-term care setting.[22] Consider addressing the following benefits of discontinuation:
	• Discontinuation of your benzodiazepine may improve alertness and thinking, and reduce fall risk.[16]
	• There may be options for treating your condition that are better for you than your benzo.[17]
	    • These options may or may not be a medication. For example, there are things you can do to help sleep, anxiety, and low back pain that do not involve pills.
	
	Regarding the discontinuation process, consider addressing the following points:
	• You must not stop your benzo on your own. If you are dependent on your benzo and stop it all of a sudden, you might have withdrawal symptoms. Examples include:
	    • More common: anxiety, irritability, trouble sleeping, sweating, gastrointestinal symptoms.[16,18]
	    • Possible but uncommon: seizures, seeing or hearing things that aren't there.[16,17]
	• The condition your benzo is being used to treat might get worse during discontinuation. We will work together to control it to the extent possible before stopping your benzo.[22]
	• Depending on the dose, how often you take it, and for how long you have been taking it, you may need to slowly decrease (taper) the dose. You will be given specific advice for the taper. If you feel worse during this process, don't be discouraged. Your plan can be adjusted if this happens. Most symptoms are mild and short-term (days to weeks).[16]
	• If the benzodiazepine cannot be completely discontinued, a dose reduction is still a partial success.[22]
	
	Consider sharing the validated EMPOWER brochure, available at http://www.criugm.qc.ca/fichier/pdf/BENZOeng.pdf.[18]

Identify patients for whom benzodiazepines should be tapered.	• Patients ≥65 years of age[18] • Patients <65 years of age who have used a benzo most days of the week for >4 weeks.[16] • Be aware that case reports describe a wide range of time to dependence, with some reporting the onset as early as days to weeks after the start of a benzodiazepine.[17]
Identify strategies for a successful benzodiazepine taper. *Continued…*	• Monitor every one to two weeks.[16] • Consider an especially slow taper (e.g., at least six to 12 weeks) for patients taking alprazolam; patients taking a high dose (e.g., alprazolam >4 mg/day); patients taking a benzo for >2 to 3 months; and for patients with panic disorder or a seizure disorder.[2,11,24] • Be prepared to address severe or life-threatening withdrawal reactions include catatonia, seizures, delirium tremens, depression, suicidal or homicidal thoughts, mania, or psychosis.[17] • Also watch for a protracted withdrawal syndrome that persists beyond initial benzodiazepine withdrawal. Symptoms may last as long as 12 months, and include depression, cognitive impairment, insomnia, anxiety, motor symptoms, paresthesia, or tinnitus.[17]

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Goal	Suggested Strategies or Resources
Successful benzodiazepine tapering strategies, continued	• In case of worsening of underlying condition or withdrawal symptoms, maintain benzodiazepine dose or increase to the previous step for one to two weeks, then taper more slowly.[16,17,22] • Incorporate non-drug approaches to manage underlying conditions (e.g., sleep hygiene, cognitive behavioral therapy).[16] • For patients on both an opioid and benzodiazepine, it may be safer and more practical to taper the opioid first.[19] The benzodiazepine may help with opioid withdrawal.[19] • Depending on patient reliability, consider having the pharmacist dispense only a week's worth of medication (or less) at a time.[26] • Provide a written tapering plan to improve chance of success.[18]
Formulate a benzodiazepine tapering plan for your patient.	There is no one tapering schedule suitable for all patients.[17] Suggested tapering regimens include: • Reduce dose by 25% every one to two weeks (commonly used).[19] • Reduce dose by 25% every two weeks until lowest available dose is reached. Then progressively reduce dosing frequency (e.g., for insomnia, schedule drug-free nights).[16] • Reduce dose by 25% weekly for three weeks, or every two weeks for six weeks, then reduce by 12.5% for two weeks.[16] • Reduce dose by 25% weekly for four weeks, or reduce by 25% for three weeks, then by 12.5% every four days for one week.[16] • Reduce by 25% weekly for the first two weeks, then by 10% per week.[20] • Reduce dose by 10% every one to two weeks, until 20% of original dose is reached, then taper by 5% every two to four weeks.[26] • Taper by no more than 5 mg diazepam equivalent per week. When 20 mg diazepam equivalent is reached, slow the taper to 1 to 2 mg diazepam equivalent per week).[26] The "Benzodiazepine Dosing and Pharmacokinetics" table above provides approximate equivalent doses. • **Alprazolam**: decrease by no more than 0.5 mg increments. If taking ≥6 mg/day, consider decreasing by 0.5 mg every two to three weeks. When at 2 mg/day, decrease by 0.25 mg every two to three weeks.[24] • In **panic disorder**, taper the benzodiazepine by no more than 10% of the dose weekly, such that the taper is completed over two to seven months.[24,25] Special considerations: • If the dosage form does not allow for a 25% reduction, consider a 50% reduction initially, then switch to lorazepam or oxazepam for the end of the taper.[16] • Switching and stabilizing on a longer-acting agent (e.g., clonazepam) before tapering is sometimes done, but may not be superior.[16,22,26] The "Benzodiazepine Dosing and Pharmacokinetics" table above provides approximate equivalent doses.

Users of this resource are cautioned to use their own professional judgment and consult any other necessary or appropriate sources prior to making clinical judgments based on the content of this document. Our editors have researched the information with input from experts, government agencies, and national organizations. Information and internet links in this article were current as of the date of publication.

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