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Glossary of Terms
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ASAM Clinical Practice Guideline on Benzodiazepine Tapering
Draft for Public Comment

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2 *Endorsement: TBD*

DRAFT

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1 **Executive Summary**

2 **Purpose**

3 To develop and disseminate this *Clinical Practice Guideline on Benzodiazepine Tapering*
4 (hereafter referred to as the Guideline), The American Society of Addiction Medicine (ASAM)
5 has partnered with:

- 6 • The American Academy of Family Physicians (AAFP),
- 7 • The American Academy of Neurology (AAN),
- 8 • The American Academy of Physician Associates (AAPA),
- 9 • The American Association of Medical Toxicology (ACMT),
- 10 • The American Association of Nurse Practitioners (AANP),
- 11 • The American Association of Psychiatric Pharmacists (AAPP)
- 12 • The American College of Obstetricians and Gynecologists (ACOG),
- 13 • The American Geriatrics Society (AGS), and
- 14 • The American Psychiatric Association (APA).

15 The Guideline provides information on evidence-based strategies and clinically informed
16 standards of care for whether and how to taper benzodiazepine (BZD) medications.

17 **Background**

18 Benzodiazepines (BZDs) are commonly prescribed, and FDA approved to treat a wide range of
19 conditions including anxiety and mood disorders, insomnia, and seizures. BZD use is associated
20 with increased risk for adverse events including falls, motor vehicle accidents, cognitive
21 impairment, and overdose (particularly when BZD are used in combination with opioids).¹ The
22 risk-benefit balance may shift over time and, because physiological dependence develops with
23 long-term use (>2-4 weeks), stopping can be challenging. When BZDs are used regularly,
24 abruptly discontinuing or decreasing the dose can lead to serious acute and/or protracted
25 withdrawal symptoms. Some individuals continue to have severe symptoms and functional
26 decline long after – even years - complete discontinuation of BZDs leading one group of
27 researchers to hypothesize that a neurological injury has led to this protracted withdrawal state
28 they refer to as : Benzodiazepine-Induced Neurological Dysfunction (BIND).

Commented [2]: ++Key topic++
Please add a note somewhere:
"Long-term" in reference to BZD use equates to >2-4 weeks.

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1 Patients who have been taking BZD for longer than a month should not abruptly discontinue the
2 medication, but rather should gradually taper the dosage over a period of time under clinical
3 supervision. Many patients who have been taking BZD for less than 4 weeks are able to
4 discontinue the medication without a taper. However, physiological dependence can develop in
5 as little as 2 weeks. Clinical benefits of BZD decrease within a few weeks, while risks continue
6 or increase. Depending on medication and patient characteristics, some patients who have been
7 taking BZD for less than a month may benefit from a taper. This Guideline aims to assist
8 clinicians in helping patients safely taper their BZD medication, while minimizing withdrawal
9 symptoms and associated risks.

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Key Takeaways

11 This Guideline focuses on approaches to tapering BZD medications in patients who have used
12 BZDs for over a month. Recommendations address considerations for tapering, level of care ,
13 tapering strategies, withdrawal management, and specific patient populations. The following are
14 10 key takeaways of this Guideline:

- 15 1. Approaches to BZD tapering should always be considered in collaboration with the
16 patient utilizing shared decision-making strategies based on informed consent.
- 17 2. Clinical recommendations regarding continued BZD use versus tapering should be based
18 on an ongoing assessment of risks and benefits of continued BZD use. When the risks of
19 continued BZD medication use outweighs the risks of tapering, tapering is generally
20 indicated.
 - 21 a. More frequent assessment of the risks and benefits of continued BZD prescribing
22 should be conducted for patients who:
 - 23 i. Are co-prescribed opioids
 - 24 ii. Have a substance use disorder (SUD), **including Benzodiazepine Use**
25 **Disorder (BUD)**
 - 26 iii. Have other risk factors for adverse effects, such as psychomotor
27 impairments and dyscognition
 - 28 b. When considering the risks and benefits of continued BZD prescribing in
29 pregnant patients, the maternal fetal dyad should be considered.

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1 c. Clinicians should taper BZD in most older adults unless there are compelling
2 reasons for continuation.

3 3. Harm reduction strategies (e.g., naloxone for those co-prescribed opioids or otherwise at
4 risk for opioid overdose) should be employed based on the individual patient’s risks.

5 4. BZD should not be abruptly discontinued in patients who have been taking these
6 medications daily or near daily for longer than one month.

7 5. While most patients are able to complete BZD tapering in outpatient settings, inpatient or
8 medically managed residential care should be considered when the patient’s presentation
9 indicates significant risk that cannot be managed in an outpatient setting.

10 6. The tapering process should be designed to minimize withdrawal symptoms while
11 balancing the risk of continued BZD use. The initial pace of the BZD taper should
12 generally include dose reductions of 5-10 25% every 2 to 4 weeks or more with

13 adjustments made up or down according to patient response. and no more than 25%
14 every 2 weeks.

15 7. Tapering strategies should be tailored to the individual patient and adjusted based on
16 patient response. Patients should be monitored for the emergence of BZD withdrawal
17 signs and symptoms with each dose reduction. If significant signs or symptoms emerge
18 the pace of the taper (amount of and/or interval between reductions) should be adjusted.

19 8. Patients undergoing a BZD taper should be offered adjunctive psychosocial interventions
20 (e.g., cognitive behavioral therapy [CBT], sleep hygiene education) to support successful
21 tapering.

22 9. Patients undergoing BZD withdrawal management in an inpatient or other medically
23 managed setting should be monitored for signs and symptoms of BZD withdrawal
24 regularly – using vital signs and a structured assessment tool – and assessed for seizure
25 risk and managed as appropriate.

26 10. Concurrent treatment should be provided for any co-occurring substance use or
27 psychiatric disorders.

28 **Summary of Recommendations**

29 Recommendations for Considerations for Tapering BZDs

30 **Summary of Recommendations**

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Commented [7]: First below are our suggested recommendations. They streamline (18 rather than >40) the CGC draft recommendations and reflect preferred content. Second below this list, list the CGC draft recommendations which are not deleted but are retained with our comments. Consequently, too, we recommend that the remainder of the CGC Draft text replace the CGC recommendations with these along with the corresponding text changes. To do so will require some reshuffling of the order of the text with the recommendations in parallel.

Commented [8]: Our comments may appear either in this summary section or in the body of document from which this summary was extracted.

Commented [9]: There are multiple redundancies here that should be addressed by considering how the reader will take it in. It may best to begin with the principles of shared decision-making.

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Recommendations for Considerations for Tapering BZD

1. For each patient taking BZD, prescribing clinicians should ideally assess the risks and benefits of ongoing BZD prescribing at least every month 3 months (*Clinical consensus, Strong Recommendation*).
 - a. At a minimum, risks and benefits should be assessed with each new BZD prescription or BZD prescription refill authorization (*Clinical consensus, Strong Recommendation*).
 - b. Prescribing clinicians should review the information in the relevant PDMP and drug testing as a part of the risk benefit assessment (*Clinical consensus, Strong Recommendation*).
 - c. Reconsider the use of any Z-drugs and/or barbiturates, since they act on the same GABAA receptor as BZDs.
 - b-d. Assess for opioid, alcohol, and cannabinoid co-use.
2. When the risks of BZD medication outweigh the benefits for a given patient, tapering is generally indicated (*Clinical consensus, Strong Recommendation*).
 - a. The clinician should initiate a conversation about tapering, including providing informed consent and the alternatives for management of the underlying condition (*Clinical consensus, Strong Recommendation*).
3. Clinicians should avoid abruptly discontinuing BZD medication in patients who have been taking BZD daily or near daily (e.g., more days than not) for longer than one month (*Low certainty, Strong Recommendation*).
 - a. While many patients who have been taking BZD for less than 4 weeks are able to discontinue the medication without a taper, clinicians can consider in partnership with the patient a short taper (*Clinical Consensus, Conditional Recommendation*).
 - i. If the BZD is discontinued without a taper the patient should be counseled to report the emergence of withdrawal and/or rebound symptoms (*Clinical Consensus, Strong Recommendation*).
 1. If significant symptoms emerge, the clinician can consider medications for symptom management or restarting the BZD and initiating a taper (*Clinical Consensus, Conditional Recommendation*).

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c. is a ++Key topic++

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Commented [12]: How is this defined?

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1 Recommendation for Level of Care Considerations

- 2 4. **Inpatient care should be considered when:**
- 3 a. Patient presentation indicates an imminent risk for significant harm related to
4 continued use of BZD (e.g., overdose, accidents, falls, suicidality or other self-harm)
5 (*Clinical consensus, Strong Recommendation*);
- 6 b. Patient symptoms and/or co-occurring physical or mental health conditions [e.g.,
7 seizure disorder, concomitant use of medications that lower the seizure threshold]
8 cannot be safely managed in the outpatient setting (*Clinical consensus, Strong*
9 *Recommendation*);
- 10 c. **The patient is experiencing or imminently anticipated to experience severe or**
11 **complicated withdrawal (*Clinical consensus, Strong Recommendation*); and**
- 12 d. **The patient has a history of severe or complicated withdrawal (*Clinical consensus,***
13 ***Strong Recommendation*).**

Commented [13]: There are 3 categories I can think of related to inpatient decision-making:
1) For those with addiction: use ASAM Criteria
2) For those without addiction but with mental health concerns: use LOCUS
3) For all, medical concerns such as serious pneumonia, heart failure...

Commented [14R13]: , seizure disorder

Commented [15R13]: ++Key topic++

14 Recommendation Statement for Partnering with Patients

- 15 5. The BZD tapering strategy should be developed in coordination with the patient and/or their
16 care partner(s) in a shared decision-making process, whenever possible (*Clinical consensus,*
17 *Strong Recommendation*).

Commented [16]: a. and b. are imminent risk situations.
c. and d. require more judgement, and assume that inpatient care will be following these guidelines. If they are not following these guidelines, more harm may be done to the patient. c. and d. should be reworded to advise the clinician to advise to not recommend inpatient care unless the clinician can first determine the inpatient care will follow these guidelines.

Commented [17R16]: ++Key topic++

18 Tapering Process Recommendation Statements

- 19 6. Prior to beginning a taper, clinicians should conduct a thorough medication and health
20 review, with particular attention to other psychoactive medications and conditions that may
21 be impacted during the taper (*Clinical consensus, Strong Recommendation*).
- 22 7. When determining the initial pace of the BZD taper, clinicians should generally consider in
23 partnership with the patient dosage reductions of 5-10-25% from the dose the patient is
24 currently on. Subsequently, the pace of the taper should be kept at 5-10% reductions (from
25 the subsequent current dosage) or adjusted up or down according to patient experience ~~not~~
26 ~~exceed 25%~~ every 2-4 weeks or longer as tolerated (See Table 1) (*Clinical consensus,*
27 *Strong Recommendation*).
- 28 a. Clinicians should consider current BZD dose and half-life, frequency and duration of
29 BZD use, comorbidities, and patient response to any prior BZD tapering attempts
30 (*Clinical consensus, Strong Recommendation*).

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1 b. The overall tapering strategy should be designed to minimize harms, considering the
2 risk for withdrawal symptoms and the risk of harm related to continued BZD use
3 (*Clinical consensus, Strong Recommendation*).

4 8. For patients without contraindications (e.g., liver dysfunction, interacting medications),
5 clinicians can consider transitioning to a comparable dose of a longer-acting BZD for the
6 taper if patients experience withdrawal symptom acceleration during the day with short-
7 acting agents. (*Clinical consensus, Conditional Recommendation*).

8 9. Tapering strategies should be tailored to the individual patient and adjusted based on the
9 patient's response (*Clinical consensus, Strong Recommendation*).

10 a. Initially, patients undergoing tapering should be evaluated for symptom severity and
11 functional response related to the BZD taper within 2 days of each dose reduction for
12 short half-life BZDs or within 4 days of each dose reduction for long-half-life BZDs
13 by phone, text, email, or online chart portal. Once assured of a favorable patient
14 response, the clinical contact intervals can be extended to 2 weeks and then 4 weeks.

15 ~~a.~~ (*Clinical consensus, Strong Recommendation*).

16 b. For patients experiencing significant symptoms or functional decline related to the
17 BZD taper, clinicians in partnership with patients should consider pausing or slowing
18 the pace of the taper (i.e., increase the intervals between reductions) and/or making
19 smaller dose reductions (*Clinical consensus, Strong Recommendation*).

20 ~~b-c.~~ For patients experiencing few symptoms related to the BZD taper, clinicians can
21 consider discussing increasing the rate of the taper with the patient.

22 10. The BZD tapering process can be more difficult for patients as the total daily dose of BZD
23 decreases. Clinicians should proactively consider smaller dose reductions and/or slowing the
24 pace of dose reductions as the taper progresses (i.e., hyperbolic tapering) (*Clinical consensus,*
25 *Strong Recommendation*).

26 a. A non-linear taper where each subsequent percentage cut is based on the previous dose and not
27 in the the dose at the start of the taper (e.g., based on GABA_A receptor occupancy levels, as
28 specified in the Maudsley deprescribing guide) is preferred, although many patients may need a
29 slower rate in the last 25% of the taper.

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Commented [21]: Once someone is off and running and tapering, they do not need (or desire) this much contact w/ their clinician

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Commented [22]: This is based on the acceptance of the Alliance's recommendation to start tapers at a 5-10% rate.

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Commented [24]: Horowitz M. The Maudsley Deprescribing Guidelines: Antidepressants, Benzodiazepines, Gabapentinoids, and Z-Drugs. John Wiley & Sons, Inc: West Sussex, UK. 2024.

Commented [25]: ++Key topic++

Commented [26]: ++Key topic++

Commented [27]: A hyperbolic taper does not specify a rate. It is a pattern of dose tapering. You need to specify a rate.

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1 ~~10.b.~~ Minimum therapeutic dose should not be used as a cutoff point for complete
2 discontinuation, which should be based on patient reaction. Smaller reductions may need to be
3 continued well into the sub-therapeutic range.

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4 11. If a patient is unable to tolerate further BZD dose reductions, the clinicians can consider – in
5 partnership with the patient and other members of the care team – maintaining the patient on
6 the lower BZD dose with regular risk benefit assessment consistent with [Recommendation](#)
7 [#1](#). These induced long-term BZD physiological dependence cases should be reported to the FDA via the FDA
8 Adverse Event Reporting System (FAERS) system. (Clinical consensus, Conditional
9 Recommendation).

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in it's name.

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Adjunctive Interventions Recommendation Statements

- 10 Adjunctive Interventions Recommendation Statements
- 11 12. Adjunctive psychosocial interventions should be offered when tapering BZD (Clinical
12 consensus, Strong Recommendation).
- 13 a. Patients undergoing BZD tapering should be offered, or referred for, behavioral
14 interventions such as [Cognitive Behavioral Therapy \(CBT\)](#) (~~Moderate Very Low~~
15 ~~Certainty, Strong Recommendation~~).
 - 16 b. Clinicians should educate patients on lifestyle factors that could support BZD
17 tapering (e.g., sleep hygiene, physical activity as appropriate to ability) (Clinical
18 consensus, Strong Recommendation).
 - 19 c. Clinicians can consider recommending complementary health approaches such as
20 mindfulness practices (Clinical consensus, Conditional Recommendation).
 - 21 d. Clinicians ~~should can~~ consider referring patients for peer specialist services to
22 provide support during the taper (Clinical consensus, Conditional Recommendation).
- 23 13. For patients experiencing symptoms that significantly interfere with ~~their function the taper~~
24 (e.g., ~~with~~ sleep difficulty, anxiety symptoms), clinicians should first consider pausing or
25 slowing the pace of the taper (Clinical consensus, Strong Recommendation).
- 26 a. Clinicians can also consider ~~adjunctive medications~~ to address symptoms interfering
27 with the taper. ~~However, caution is advised as research is limited and/or conflicting.~~
28 (Clinical consensus, Conditional Recommendation).

Commented [29]: Which? Some are harmful, some
have limited efficacy, and some work well as BZD
adjuncts. This is specialized knowledge that you can't
expect all clinicians to possess.

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1 Recommendations for BZD Withdrawal Management

2 14. Patients undergoing BZD withdrawal management in an inpatient or other medically
3 managed setting should be:

4 a. Monitored for signs and symptoms of BZD withdrawal regularly using vital signs and
5 patient report of symptom severity and functional changes a standardized assessment
6 tool (*Clinical consensus, Strong Recommendation*); and

7 b. Assessed for seizure risk and manage as appropriate (*Clinical consensus, Strong*
8 *Recommendation*). |

9 b.c. Not required to complete their taper while an inpatient. |

10 15. Tapering with very long-acting agents (e.g., with phenobarbital, ~~chlordiazepoxide~~) should
11 typically be conducted in an inpatient or medically managed residential setting (e.g., ASAM
12 Criteria Level 3.7). (*Clinical consensus, Conditional Recommendation*).

13 a. Tapering with very long-acting agents may also be conducted in outpatient settings
14 with extended nurse monitoring (e.g., ASAM Criteria Level 2.7) by, or in
15 consultation with, a clinician experienced in the use of these medications for BZD
16 tapering. (*Clinical consensus, Conditional Recommendation*).

17 16. Following a physiological taper, discharge planning should include an outpatient follow-up
18 appointment, ideally, within 7 days (*Clinical consensus, Strong Recommendation*).

19 17. The follow up clinician should:

20 a. Assess the patient for ongoing symptom severity and functional responses related to
21 discontinuation of BZD, including re-emergence of symptoms for which the BZD
22 was originally prescribed (*Clinical consensus, Strong Recommendation*); and

23 b. Consider medications and/or behavioral interventions (notably CBT) to address
24 ongoing symptom severity and/or functional decline related to discontinuation of
25 BZD (*Clinical consensus, Conditional Recommendation*).

26 18. Due to risks for refractory seizure, dysrhythmias, and other side effects, for the purpose of
27 BZD tapering, clinicians should avoid rapid BZD reversal agents such as flumazenil unless
28 they are properly trained in the use of these agents. (*Clinical consensus, Strong*
29 *Recommendation*).

30 19. For the purpose of BZD tapering, clinicians should generally avoid general anesthetics such
31 as propofol or ketamine (*Clinical consensus, Conditional Recommendation*).

Commented [30]: Not recommended - see prior comment.

Commented [31]: ++Key topic++

Commented [32]: I take issue with the term "tapering" here as it is not truly a taper but rather an abrupt, cold turkey cessation with some seizure control measures. This approach should rarely be used in the prescribed population.

(I'm commenting on behalf of BIC.)

Commented [33]: What is the justification for switching agents? Has phenobarbital been demonstrated to be effective in tapering? This sounds like an unnecessary change of drugs to me, multiplying risks.

Commented [34R33]: It appears to be effective and evidence-based. I have no experience with it for this purpose but I believe Dr. Blazes from the Alliance does.

Kawasaki SS, Jacapraro JS, Rastegar DA. Safety and effectiveness of a fixed-dose phenobarbital protocol for inpatient benzodiazepine detoxification. *Journal of Substance Abuse Treatment*. 2012 Oct 1;43(3):331-4.

Sartori S, Crescioli G, Brillì V, Traversoni S, Lanzi C, Vannacci A, Mannaioni G, Lombardi N. Phenobarbital ...

Commented [35R33]: I would argue that the evidence base for phenobarbital in the prescribed population is weak.

Commented [36R33]: I agree the researched evidence is weak. Basically, the inclusion of phenobarbital can only be based on clinical experience. That experience is extensive, however, including my ...

Commented [37]: Chlordiazepoxide is a BZD with a half-life similar to diazepam and other BZDs. It makes no sense to have a guideline that recommends a residential setting for tapering long half-life BZDs. ...

Commented [38R37]: ++Key topic++

Commented [39]: Why for long-acting agents in particular? In and of itself the rationale is not seen. For those requiring a long taper, duration of stay in inpatient is not sufficient. It is not practical to be ...

Commented [40R39]: In general, inpatient settings are not trained on evidence-based BZD deprescription and symptom management and withdraw patients far too fast. They should be the last resort for the most severe ...

Commented [41]: Disagree. ASAM criteria does not indicate the use of a long-acting medication should prompt inpatient consideration. It rightfully speaks to other factors. Besides that, any BZD used for tapering ...

Commented [42]: Disagree: these can be used for the short-term purposes for which they are generally indicated: procedures. The same is true for midazolam.

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1 *Recommendations for Patients Co-Prescribed BZD and Opioids*

2 ~~20.19.~~ For patients who are co-prescribed BZD and opioids: Prior to initiating a BZD taper, the
3 clinician should seek to coordinate care with any other clinician(s) who may also be
4 prescribing BZD and/or opioids (*Clinical consensus, Strong Recommendation*).

5 ~~21.20.~~ Because of the increased risk for respiratory depression with concurrent use of BZD and
6 opioids, the prescribing clinician should assess the risks and benefits of continued BZD
7 prescribing at least every ~~month 3 months~~ (*Clinical consensus, Strong Recommendation*).

8 a. Risk benefit assessments should be conducted more often when the patient has other
9 risk factors for adverse events (*Clinical consensus, Strong Recommendation*).

10 ~~22.21.~~ Clinicians should provide or prescribe naloxone for all patients co-prescribed BZDs and
11 opioids (*Clinical consensus, Strong Recommendation*).

12 ~~23.22.~~ Clinicians should consider additional strategies for mitigating risk, including using lowest
13 effective doses of BZD and opioid medications, and optimizing non-opioid
14 interventions (*Clinical consensus, Strong Recommendation*).

15 *Recommendations for Patients with BZD Use Disorder and/or Co-Occurring SUD*

16 ~~24.23.~~ For patients with SUD including BUD, clinicians should consider using existing
17 ~~standards for~~ level of care recommendations such as *The ASAM Criteria* (*Clinical consensus,*
18 *Strong Recommendation*).

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19 a. For patients unlikely to effectively participate in an outpatient taper, clinicians should
20 consider a residential or inpatient setting (*Clinical consensus, Strong*
21 *Recommendation*).

22 ~~25.24.~~ For patients with BZD use disorder, alcohol use disorder, or opioid use disorder:
23 Clinicians should assess the risks and benefits of continued BZD prescribing at least monthly
24 (*Clinical consensus, Strong Recommendation*).

25 ~~26.25.~~ For patients with other comorbid addictions (e.g., stimulant use disorder, cannabis use
26 disorder, behavioral addictions): Clinicians should consider more frequent assessments of the
27 risks and benefits of continued BZD prescribing compared to the general guidance
28 ([Recommendation #1](#)). (*Clinical consensus, Strong Recommendation*).

29 ~~27.26.~~ When tapering BZD in a patient with SUD(s), the underlying SUD(s) should be managed
30 concurrently with the BZD taper (*Clinical consensus, Strong Recommendation*).

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1 ~~28-27.~~ Any medications for SUD treatment, including buprenorphine and methadone, should be
2 continued during the BZD taper when clinically appropriate (*Clinical consensus, Strong*
3 *Recommendation*).

4 ~~29-28.~~ Following the taper, clinicians should continue to monitor and treat underlying SUD(s) or
5 refer the patient to an appropriate level of care for continuing care (*Clinical consensus,*
6 *Strong Recommendation*).

7 ~~30-29.~~ Clinicians can consider using ~~drug toxicology~~ testing to support the risk/benefit
8 assessment (*Clinical consensus, Strong Recommendation*).

9 ~~31-30.~~ Clinicians should provide or refer for harm reduction services, which may include but are
10 not limited to:

- 11 a. Provision of naloxone and related training (*Clinical consensus, Strong*
12 *Recommendation*); and
- 13 b. Provision of drug checking or other safe use supplies (e.g., fentanyl test strips,
14 xylazine test strips, sterile syringes) (*Clinical consensus, Conditional*
15 *Recommendation*).

16 *Recommendations for patients with co-occurring psychiatric disorders*

17 ~~32-31.~~ For patients with psychiatric conditions, clinicians should consider using existing
18 standards for level of care recommendations such as The Level of Care Utilization System
19 (LOCUS) (*Clinical consensus, Strong Recommendation*).

20 ~~33-32.~~ Clinicians should consider optimizing evidence-based treatment for any psychiatric
21 disorder prior to the taper (*Clinical consensus, Strong Recommendation*).

22 ~~34-33.~~ For patients with PTSD or TBI, clinicians should strongly consider tapering BZD
23 medications (*Clinical consensus, Strong Recommendation*).

24 ~~35-34.~~ Clinicians should monitor sleep closely in patients with mood or psychotic disorders
25 undergoing a BZD taper, particularly for patients with bipolar disorder, as sleep disturbance
26 can trigger episodes of mania (*Clinical consensus, Strong Recommendation*).

- 27 a. Due to the risk for destabilization, if a patient experiences significant sleep
28 disturbance, clinicians should pause the taper until the symptoms resolve (*Clinical*
29 *consensus, Strong Recommendation*).

Commented [44]: This is too broad. Many BZWS and BIND symptoms fall into this category, and the treatment is deprescription.

Commented [45]: Too strong. They may never resolve for many withdrawing from or having withdrawn from BZDs.

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Glossary of Terms

<https://bit.ly/BZDCPG>

1 i. Clinicians can also consider providing or referring to a sleep medicine
2 specialist or for behavioral interventions (e.g., CBT-I, sleep hygiene
3 education) (*Clinical consensus, Conditional Recommendation*).

4 ii. Clinicians can also consider consulting with a clinician with psychiatric or
5 sleep expertise. (*Clinical consensus, Conditional Recommendation*).

6 ~~ii.b.~~ Avoid the use of Z-drugs, since they act on the same receptor sites as BZDs.

7 Recommendation Statement for Older Adults

8 ~~36-35.~~ Clinicians should taper BZD in most older adults unless there are compelling reasons for
9 continuation (*Clinical consensus, Strong Recommendation*).

10 Recommendations for Pregnant Patients

11 ~~37-36.~~ When considering a BZD taper for pregnant patients, clinicians should weigh risks and
12 benefits for the maternal-fetal dyad (*Clinical consensus, Strong Recommendation*).

13 ~~38-37.~~ Clinicians should monitor closely for psychiatric symptoms during the taper as these
14 symptoms may evolve rapidly during the pregnancy and postpartum period and may require
15 treatment (*Clinical consensus, Strong Recommendation*).

16 ~~39-38.~~ Clinicians can consider a referral to or consultation with a healthcare professional with
17 expertise in reproductive psychiatry (*Clinical consensus, Conditional Recommendation*).

18 ~~40-39.~~ For infants with long-term BZD exposure *in utero*, clinicians should:

19 a. Encourage breastfeeding, which can reduce neonatal withdrawal symptoms (*Clinical*
20 *consensus, Strong Recommendation*); and

21 b. Communicate with the infant's healthcare provider (with parental consent) regarding
22 exposure to BZD (*Clinical consensus, Strong Recommendation*).

23 ~~b.c.~~ Consider involving a perinatologist upon delivery.

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Commented [47]: This is too weak. FDA recommends tapering.

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Glossary of Terms

<https://bit.ly/BZDCPG>

1 Introduction

2 Purpose

3 The American Society of Addiction Medicine (ASAM) has partnered with:

- 4 • The American Academy of Family Physicians (AAFP),
- 5 • The American Academy of Neurology (AAN),
- 6 • The American Academy of Physician Associates (AAPA),
- 7 • The American Association of Medical Toxicology (ACMT),
- 8 • The American Association of Nurse Practitioners (AANP),
- 9 • The American Association of Psychiatric Pharmacists (AAPP)
- 10 • The American College of Obstetricians and Gynecologists (ACOG),
- 11 • The American Geriatrics Society (AGS), and
- 12 • The American Psychiatric Association (APA)

13 to develop and disseminate this *Clinical Practice Guideline on Benzodiazepine Tapering*
14 (hereafter referred to as the Guideline). The Guideline provides information on evidence-based
15 strategies and clinically informed standards of care for whether and how to taper benzodiazepine
16 (BZD) medications.

17 Background

18 BZDs are commonly prescribed, and FDA approved to treat a wide range of conditions including
19 common mental health conditions such as anxiety and mood disorders, as well as insomnia and
20 certain seizure conditions among other indications (see Table). These medications represent
21 important therapeutic tools; however, data on long-term safety (> 1 month) and efficacy are
22 limited, and BZDs are associated with significant risks including potentially life-threatening
23 withdrawal, long-term dysfunction, substance use disorder (SUD), and overdose—particularly
24 when combined with central nervous system (CNS) depressants such as alcohol or opioids.²
25 Since 2000, fatal overdoses involving BZDs have increased nearly tenfold, often involving the
26 combination of opioids and BZDs.¹

27 In addition, individuals may experience paradoxical effects to BZDs including
28 agitation/aggressiveness acutely when anxiolysis is intended, as well as long-term worsening of
29 anxiety or seizures, reflected by the referenced discontinuation studies.

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Commented [50]: We can furnish references for each item in the list in the new proposed table.

Commented [51]: ++Key topic++

Commented [52]: Ritvo AD, Foster DE, Huff C, Finlayson AJR, Silvernail B, Martin PR. Long-term consequences of benzodiazepine-induced neurological dysfunction: a survey. PLoS ONE. 2023;18(6):e0285584.

Commented [53]: Reference: Saias T, Gallarda T. Paradoxical aggressive reactions to benzodiazepine use: a review. Encephale. 2008 Sep;34(4):330-6.

Commented [54]: Reference: Ashton H. Benzodiazepine withdrawal: outcome in 50 patients. Br J Addict. 1987;82:655-71

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Glossary of Terms
<https://bit.ly/BZDCPG>

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Table

First Line

Status epilepticus

Procedure amnestic

Alcohol withdrawal

Benzodiazepine withdrawal

Nonpsychotic crisis anxiety

Burning Mouth Syndrome

Stiff Person Syndrome

Second Line when Function is Impaired

Certain Movement Disorders

Muscle relaxation

Insomnia

Certain seizure disorders

Anxiety disorders (not PTSD or OCD which are now also categorized separately)

18 While prescribing rates for BZDs have fallen since the most recent peak in 2013, in the 2022
19 National Survey on Drug Use and Health (NSDUH), 9.1% of US adults reported use of BZDs in
20 the past year, with more than 14% of those individuals reporting non-medical use in the past
21 year.^{3,4} Between 1996 and 2013, overall BZD prescriptions filled increased from 8.1 million to
22 13.5 million, while the total BZD prescriptions filled per 100,000 adults more than tripled.⁵ Over
23 this time, emergency department visits related to BZDs also tripled, and BZD-related overdose

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<https://bit.ly/BZDCPG>

1 deaths quadrupled.^{1,6} Between 2013 and 2023, BZD prescriptions dispensed from outpatient and
2 mail-order pharmacies fell by approximately 35%.⁴

3 Long-term (>2-4 weeks) use of BZDs is common.^{7,8} Long-term use is associated with increased
4 risk for physiological dependence and withdrawal and ongoing risk for adverse events such as
5 falls, motor vehicle accidents, ~~and~~ cognitive impairment, and function-limiting protracted
6 withdrawal symptoms.^{9,10} The risk-benefit balance for continued BZD use may shift over time
7 due to receptor/receptor system (GABAA, glutaminergic, serotonergic, adenosine,
8 neuroendocrine [HPA axis], peripheral translocator protein (TSPO) changes, new medical
9 conditions/medications, and aging effects and, because physiological dependence develops with
10 long-term use, stopping can be challenging. Older adults have the highest BZD prescription
11 rates and are at particular risk of experiencing adverse events related to BZD use. Some have
12 taken BZDs continuously for decades.^{7,11,12} In some instances, use has been so prolonged that the
13 original reason for the BZD prescription may be unclear.

14 Safe tapering of BZDs can be clinically complex since rapid dosage reductions may precipitate
15 acute withdrawal, which can be life-threatening. When BZD are tapered too rapidly, patients are
16 also at risk for recurrence and exacerbation of the symptoms for which BZDs were prescribed
17 (e.g., anxiety, seizures, insomnia) and destabilization. Finally, inadequate tapering strategies may
18 push patients to the ille.g.al drug market, where counterfeit pills including so-called “designer”
19 BZDs and/or laced with fentanyl and other opioids are common, presenting an increased risk for
20 overdose and overdose death.¹³ This Guideline aims to guide clinicians in diverse practice
21 settings in determining when and how to taper BZD medications.

22 *Intersection with the Opioid Overdose Epidemic*

23 Co-prescribing of BZDs with opioids quadrupled between 2003 and 2015 in ambulatory care
24 settings, with data from 2014-2016 indicating over one third of BZD prescriptions were co-
25 prescribing with opioids.^{11,14} In addition, some individuals may concomitantly take BZDs and
26 opioid to augment the effects of both substances. Given that both BZD and opioids cause CNS
27 depression, co-prescription and combined use increases the risk of adverse events—including
28 fatal and nonfatal overdose.¹⁵⁻¹⁷ In 2021, 13.7% of overdose deaths involving opioids also
29 involved BZDs (with 10,992 deaths involving both substances) and nearly 88% of overdose

Commented [55]: ++Key topic++

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Commented [58]: This ignores the problem of BZD-induced symptoms, which are often exacerbated during and after withdrawal. It perpetuates the myth that withdrawal symptoms are primarily recurrence, when that is clearly not the experience for a significant percentage of patients.

Commented [59R58]: I agree with Bernie. For example, patients often indicate that the anxiety that develops during BZD tapering is qualitatively different from the anxiety that prompted BZD prescribing initially. Notably, too, anxiety may be worse with (and possibly due to) BZD use and then actually improve subsequent to completed BZD discontinuation. BZD-induced hyperanxiogenesis similar to opioid-induced hyperalgesia which is now well recognized???

See:
Ashton H. Benzodiazepine withdrawal: outcome in 50 patients. Br J Addict. 1987;82:655-71.
Cantopher T, Olivieri S, Cleave N, et al. Chronic benzodiazepine dependence. A comparative study of abrupt withdrawal under propranolol cover versus gradual withdrawal. Br J Psychiatry. 1990;156:406-11.
Fava GA, Grandi S, Belluardo P, et al. Benzodiazepines and anxiety sensitivity in panic disorder. Prog Neuropsychopharmacol Biol Psychiatry. 1994;18(7):1163-8.
Pélissolo A, Maniere F, Boutges B, et al. Anxiety and depressive disorders in 4,425 long term benzodiazepine users in general practice. Encephale. 2007;33(1):32-8.

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1 deaths involving BZDs also involved opioids.¹ This highlights the need for evidence-based
2 guidance on strategies to safely taper BZDs, particularly in patients who are taking both BZD
3 and opioids.

4 In their 2022 Guideline for Prescribing Opioids for Chronic Pain, the Centers for Disease
5 Control and Prevention (CDC) stated that¹⁸:

6 *“Although in some circumstances it might be appropriate to prescribe opioids to a*
7 *patient who is also prescribed benzodiazepines (e.g., severe acute pain in a patient taking*
8 *long-term, stable low-dose benzodiazepine therapy), clinicians should use particular*
9 *caution when prescribing opioid pain medication and benzodiazepines concurrently”*
10 *(pg. 53).*

11 **Note of Caution**

12 As observed upon the 2016 release of the CDC Guidelines for Prescribing Opioids for Chronic
13 Pain, guidelines can have unintended impacts on clinical decision-making.¹⁹ Misapplication of
14 those recommendations led some prescribers to abruptly discontinue pain medications without
15 first developing a plan for safe tapering with their patients.¹⁹ This unintended consequence put
16 patients at risk for withdrawal and transition to illegally obtained opioids while failing to address
17 their underlying pain symptoms.^{20,21} Abrupt discontinuation of BZDs confers similar and
18 additional risks: rapid BZD dose reduction can cause life-threatening withdrawal symptoms such
19 as seizures and delirium, as well as potential destabilization of existing mental health conditions,
20 especially in those who have been taking BZDs long-term (>2-4 weeks) and at higher doses.²²⁻²⁴

21 As highlighted in this guideline, **BZDs should not be discontinued abruptly in patients who**
22 **have been taking them daily or near daily for longer than one month.** It is also important that
23 clinicians recognize that research has not demonstrated that BZDs themselves or as augmenting
24 agents have a significant analgesic effect with only two exceptions: burning mouth syndrome
25 and stiff person syndrome.

26

27 **Scope of Guideline**

Commented [60]: SW

Add language in this section:

“It is important that clinicians recognize that research has not demonstrated that BZDs themselves or as augmenting agents have a significant analgesic effect with only two exceptions: burning mouth syndrome and stiff person syndrome.”

Wright S. Limited utility for benzodiazepines in chronic pain management: a narrative review. *Adv Ther.* 2020;37:2604-19.

Commented [61]: Reference:

Wright S. Limited utility for benzodiazepines in chronic pain management: a narrative review. *Adv Ther.* 2020;37:2604-19.

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Glossary of Terms

<https://bit.ly/BZDCPG>

1 This Guideline focuses on whether and how to taper BZD medications, including considerations
2 for assessing risks and benefits of continued prescribing, tapering strategies, patient engagement,
3 level of care setting, and withdrawal management. It also includes population specific
4 considerations. Considerations related to initiation of BZDs, ongoing management of BZD
5 prescriptions, and non-BZD sedative hypnotics (e.g., Z-drugs) are beyond the scope of this
6 guideline.

7 A glossary of terms used in the Guideline can be found in [Appendix A](#). A summary of
8 abbreviations and acronyms can be found in [Appendix B](#).

Intended Audience

9 The intended audience of this Guideline is clinicians—including behavioral health professionals,
10 physicians, nurse practitioners, physician associates, nurses, and pharmacists—who prescribe
11 BZDs or provide or support treatment for indications for which BZDs are often prescribed. The
12 Guideline is relevant to clinicians who practice in diverse settings such as primary care offices,
13 ambulatory clinics for a broad range of specialty care providers, emergency departments (EDs),
14 hospitals, and outpatient and residential addiction and mental health settings. Some
15 recommendations only apply to specific settings (e.g., inpatient, medically managed) as indicated
16 in the narrative. Palliative care and end of life settings are not the intended audience for this
17 Guideline. The Guideline may also be useful for [patients, their significant others, peer supports,](#)
18 [peer coaches,](#) healthcare administrators, insurers, and policymakers. who implement policies
19 related to medical practice. However, as stated above, the Guideline is not intended to be a
20 source of rigid laws, regulations, or policies related to BZD prescribing. [This guideline does not](#)
21 [establish a standard of care with ramifications that might be inferred by its being considered to](#)
22 [be a standard of care.](#) The recommendations contained in this Guideline support flexible,
23 person-centered care.
24

Qualifying Statement

25 This Guideline is intended to aid clinicians in their clinical decision-making and patient
26 management. It strives to identify and define clinical decision-making junctures that meet the
27 needs of most patients in most circumstances. Clinical decision-making should consider the
28 quality and availability of expertise and services in the community wherein care is provided. The
29

Commented [62]: Since they act on the same GABAA site, Z-drugs cannot be completely ignored in this guideline. The effect of their use while tapering BZDs must be discussed.

Commented [63R62]: ++Key topic++

Commented [64]: SW
Place this in a box in the text as well!

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<https://bit.ly/BZDCPG>

1 recommendations in this Guideline reflect the consensus of an independent committee (see
2 Methodology) convened by ASAM beginning January 2023. This Guideline will be updated
3 periodically as clinical and scientific knowledge advances.

4 Prescribed courses of treatment described in this Guideline are most effective if the
5 recommendations are adhered to by the patient. Because lack of patient understanding and
6 adherence may adversely affect outcomes, clinicians should make every effort to promote the
7 patient’s understanding of and adherence to prescribed and recommended treatment services.

8 This Guideline aims to describe best clinical practices by providing recommendations for the
9 appropriate care of patients tapering from BZDs in diverse settings. Patients should be informed
10 of the risks, benefits, and alternatives to a particular treatment and welcomed as active parties to
11 shared decision-making. In circumstances in which the Guideline is being used as the basis for
12 regulatory or payer decisions, the central goal should be improvement in quality of care.
13 Recommendations in this Guideline do not supersede any federal or state regulations.

14 Methodology

15 ASAM’s Quality Improvement Council (QIC) and Clinical Practice Guideline Methodology and
16 Oversight Committee (CPG-MOS) oversaw the development of this Guideline. The FDA
17 provided guidance on the content and development of the Guideline but did not dictate the
18 content. The QIC, working with partner medical societies and the FDA, oversaw the appointment
19 of a Clinical Guideline Committee (CGC) comprised of clinicians representing 10 medical and
20 professional societies with broad subject matter expertise across medicine, psychiatry, and
21 pharmacology. A Patient Panel of individuals with lived experience with BZD tapering (the
22 Patient Panel) provided input throughout the development of the Guideline.

23 The following key clinical questions were addressed in the systematic literature review:

- 24 1. What is the efficacy and/or safety of tapering strategies for BZDs?
- 25 2. What factors influence the outcomes of BZD tapering and should be monitored?
- 26 3. How can shared decision-making and patient-centered health care be utilized to
27 support the effectiveness and safety of BZD tapering?

28 A systematic literature review was conducted to inform the development of recommendations
29 that considered risks and benefits of BZD tapering, as well as patient values and preferences. The

Commented [65]: SW

The way this language comes across flies in the face of and counters the principle of shared decision-making and places the clinician in the dominant role as a power dynamic. “Adherence” might be appropriate but only in the context of an agreed upon plan. While the clinician may have greater expertise as to the BZDs themselves (not always though!), the patients have expertise in their own experience including response to BZDs and within the context of their discontinuation. Because of unknown and unpredictable individual responses to BZDs and their tapering, the patients’ experience and next steps recommendations should often take precedence – i.e., the course should often be patient-directed and the clinician take a less directive role.

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<https://bit.ly/BZDCPG>

1 GRADE (Grading of Recommendations, Assessment, Development, and Evaluation) method
2 was used to develop recommendations in areas with sufficient evidence.²⁵ Where evidence was
3 lacking, a modified Delphi process was used to develop clinical consensus statements.²⁶ As very
4 little high quality evidence was found to directly inform the clinical questions, this strategy
5 allowed for the inclusion of guidance **in areas for which the evidence is highly limited**. The
6 detailed Methodology can be found in [Appendix C](#). A list of members, their areas of expertise,
7 and conflict of interest disclosures are available in [Appendix D](#). GRADE Evidence to Decision
8 Tables are available in [Appendix E](#).

9 **Patient Engagement and Shared Decision-Making**

10 Patients can experience life-threatening withdrawal symptoms with abrupt or rapid
11 discontinuation of BZDs, and some patients still experience significant symptoms even with a
12 gradual dose reduction.^{23,24,27} To this end, it is crucial for clinicians to adopt a patient-centered
13 approach and engage patients in a shared decision-making process when considering BZD
14 tapering.^{28,29}

15 Patients are often reluctant to consider tapering, particularly if they feel that clinicians may
16 underestimate or dismiss their symptoms during tapering.³⁰ Further complicating the issue is that
17 clinicians often do not discuss tapering with patients and continue renewing prescriptions
18 because of concern for withdrawal, as well as patients' perception of benefits.³¹ Clinicians may
19 feel uncomfortable starting these conversations due to the perceived sensitivity and difficulty of
20 the topic. Yet, ironically, many patients indicate they would be open to considering tapering
21 BZDs if their physician discussed it with them.^{30,32} Throughout the tapering process, the patient's
22 experiences, observations, and concerns should be regarded seriously and they should be full
23 participants in the ongoing shared decision-making.

24 A key step to bridging this gap in understanding is increased communication and education.
25 Engaging patients in discussions about their BZD use serves two important purposes:

- 26 1. Clinicians are presented with an opportunity to educate patients on the **benefits** and
27 risks of both short- and long-term BZD use (>2-4 weeks), alternative pharmacological
28 and nonpharmacological treatment options to manage the condition for which they
29 are taking BZDs, and the tapering process. It is important for patients (and providers)

Commented [66]: It is difficult to tell the "areas with sufficient evidence" vs those with limited evidence, except by noting that 39 of the 40 recommendations were developed by "clinical consensus" rather than by "sufficient evidence".

Suggestion per SW:

Add sentence:

"As a corollary, it is critical that research be performed to determine best practices regarding a wide range of clinical questions and concerns (see new Table __)"

Commented [67]: This section needs to embrace and outline the key elements of Informed Consent for tapering. For many, as with continued BZD use, BZD tapering and its protracted sequelae can be debilitating. The clinician and the patient both need to know the possible outcomes BEFORE beginning to taper. This is a basic patient right before any significant procedure. Catchphrases like "shared decision making" are inadequate to the task. See the following for a complete informed consent document for prescribing BZDs:

chrome-extension://efaidnbmninnbpcjpcglclefindmkaj/https://cortexconsortium.org/wp-content/uploads/Informed-Consent-for-Benzodiazepine-Prescription-Update-June-2024.pdf

Commented [68R67]: ++Key topic++

Commented [69]: Add references:

Ritvo AD, Foster DE, Huff C, Finlayson AJR, Silvernail B, Martin PR (2023). Long-term consequences of benzodiazepine-induced neurological dysfunction: a survey. *PLoS ONE*. 18(6):e0285584.

Huff C, Finlayson A, Foster D, Martin P. Enduring neurological sequelae of benzodiazepine use: an Internet survey. *Ther Adv Psychopharmacol*. 2022;12:1–9.

Finlayson A, Macoubrie J, Huff C, Foster D, Martin P. Experiences with benzodiazepine use, tapering, and discontinuation: an Internet survey. *Ther Adv Psychopharmacol*. 2022;2:1–10.

Fixsen AM, Ridge D. Stories of Hell and Healing: Internet Users' Construction of Benzodiazepine

Commented [70]: SW

It is important to add language educating patients that reflects that BZD benefits perceived may have diminished or disappeared altogether and that that might become evident only appropriate BZD discontinuation.

Ashton H. Benzodiazepine withdrawal: outcome in 50 patients. *Br J Addict*. 1987;82:655-71

1 to understand that what are thought to be BZD benefits may turn out to not be the
2 case upon careful reflection following complete BZD discontinuation. Discussions on
3 tapering should prepare patients for what they can expect during the process,
4 including potential withdrawal symptoms and how they will be managed.

- 5 2. Patients are presented with an opportunity to help clinicians understand how their
6 BZD use impacts them, as well as their treatment goals and preferences. This insight
7 into each patient's experience with BZDs can help inform clinicians' education
8 efforts for a given individual. It also empowers patients to be active participants in
9 their health care by sharing valuable information to help their clinicians better tailor
10 treatment plans, including BZD tapering protocols, to each their unique goals and
11 preferences.

12 [START BOX]

13 **The recommendations in this CPG should be interpreted in the context of shared decision-**
14 **making with patients. In other words, when a recommendation says, "clinicians should**
15 **consider", it should be understood to include "in partnership with the patient".**

16 [END BOX]

17 Considerations for Tapering BZD

18 In 2020, the FDA updated the required Boxed Warning for BZD medications to describe the
19 risks of physical dependence, withdrawal, and SUD.³³ The associated Drug Safety
20 Communication encouraged prescribers to carefully weigh the risks and benefits of BZD
21 medications, limit the dose and duration to what is needed to achieve the clinical goal, and
22 monitor patients for BZD misuse and use disorder. When prescribing BZDs, it is important for
23 prescribers to have a thoughtful strategy for medication management that regularly reassesses the
24 risks and benefits of continued prescribing, as well as a patient-centered plan for tapering the
25 medication when the benefits no longer outweigh the risks. Table ___ is a list of important
26 reasons to consider BZD discontinuation.

27 Table ___ : Reasons to Consider BZD Discontinuation.

28 1) BZD use > 1 month

Commented [71]: Reference:
Ashton H. Benzodiazepine withdrawal: outcome in 50 patients. Br J Addict. 1987;82:655-71

Commented [72]: The process can be overwhelming for these patients. There needs to be a formal, written process for this, which includes patient acknowledgement, preferably by signature. We call this Informed Consent.

Commented [73R72]: As well as a written decision aid.

Commented [74R72]: ++Key topic++

Commented [75]: SW
Add language that throughout the tapering process, the patient's experiences, observations, and concerns will be regarded seriously and they s/he will be a full participant in the ongoing shared decision-making.

Commented [76]: SW
Add a sentence and table:
"Table ___ is a list of important reasons to consider BZD discontinuation"
"Table ___
1) BZD use > 1 month
2) BZD use is ineffective
3) BZD loss of efficacy
4) BZD use for depression, PTSD, OCD, impulse control disorder, BPD, psychosis
5) Suicidality
6) History of overdose with any substance
7) Alcohol use
8) BZD co-prescribed or identified as being taken with other addiction-prone, sedating, and/or respiratory depressant medications, e.g., opioids, carisoprodol, stimulants
9) BZD adverse effect: impaired oxygenation (recommend monitoring)
10) BZD adverse effect: psychomotor (e.g., falls, accidents)
11) BZD adverse effect: dyscognition
12) BZD adverse effect: BZD Use Disorder
13) BZD diversion
14) BZD non-medical use
15) Other substance use disorder
16) Pregnancy
17) Hepatic or renal dysfunction
18) Advanced age

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Glossary of Terms

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- 1 2) BZD use is ineffective
- 2 3) BZD develops loss of efficacy over time
- 3 4) BZD use for depression, PTSD, OCD, impulse control disorder, BPD, psychosis
- 4 5) Suicidality
- 5 6) History of overdose with any substance
- 6 7) Alcohol use
- 7 8) BZD co-prescribed or identified as being taken with other addiction-prone, sedating, and/or
- 8 respiratory depressant medications, e.g., opioids, carisoprodol, stimulants
- 9 9) BZD adverse effect: impaired oxygenation (recommend monitoring)
- 10 10) BZD adverse effect: psychomotor (e.g., falls, accidents)
- 11 11) BZD adverse effect: dyscognition
- 12 12) BZD adverse effect: BZD Use Disorder
- 13 13) BZD diversion
- 14 14) BZD non-medical use
- 15 15) Other substance use disorder
- 16 16) Pregnancy
- 17 17) Hepatic or renal dysfunction
- 18 18) Advanced age
- 19 The risks of BZD use continue while a patient continues to take the medication. This is
- 20 particularly important as an individual ages or when hepatic or renal function declines.In
- 21 addition, the risk for physiological dependence and BZD use disorder, particularly in patients

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1 who use alcohol or other drugs, increases with time.³⁴ As such, long-term BZD use is frequently
2 associated with more risks than benefits. Significant risks include oversedation, cognitive
3 impairment, falls, motor vehicle crashes, and nonfatal and fatal overdose.⁹ Despite this,
4 clinicians often encounter patients who have been taking prescribed BZD for months or years.

5 While short-term BZD use is associated with decreased anxiety and insomnia, it is commonly
6 recommended that use not exceed 4 weeks, because at that point clinical benefits often decrease
7 while risks increase.^{28,35} Because the condition for which BZDs are prescribed may persist
8 beyond 4 weeks, the patient will likely need therapeutic intervention(s) when BZDs are
9 discontinued by tapering after that time period, which will also allow for a more effective
10 tapering process since such intervention(s) make it more likely that recurrence or rebound of the
11 underlying condition is minimized. Therefore, the clinician is advised to initiate non-BZD
12 therapies at the same time as initiating BZDs themselves so that the more slowly developing
13 efficacy of such interventions may be underway at the time of BZD tapering.

14 Meta-analyses of patients taking BZD for insomnia demonstrated minor improvements in sleep
15 onset, increased duration, and decreased nighttime awakenings.^{36,37} However, therapeutic effects
16 diminish in days or weeks due to changes in GABAA/BZD receptor density, and/or affinity, and
17 alterations as well as the development of other receptor opponent processes including
18 upregulation of the glutaminergic (excitatory) systems, affinity resulting from chronic use, while
19 risks continue. Life-threatening risks include hypoxic mortality (primarily in the context of
20 alcohol or opioid use) and suicide. There are a wide array of other serious adverse consequences
21 to BZDs as well. A meta-analysis of RCTs comparing BZD to placebo for insomnia in adults
22 over age 60 showed 3.8 -fold increase in daytime sedation, and 4.8-fold increase in cognitive
23 impairment and increased incidence of psychomotor effects (e.g., falls, motor vehicle
24 accidents).³⁶ Another meta-analysis showed increased risk for fractures associated with current
25 and recent BZD use in older adults.³⁸ In addition to its psychomotor effects, BZDs may increase
26 the risk of orthostatic hypotension in older adults, contributing to fall risks.³⁹ The reader is well-
27 advised to examine a more comprehensive review of BZD adverse consequences.

28 Because of the risks of regular BZD use, the committee recommended that prescribing clinicians
29 assess risks and benefits of continued prescribing with each new prescription and prescription

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(Wright SL. Benzodiazepine Withdrawal: Clinical Aspects. In: Peppin JF, Raffa RB, Pergolizzi JV, Wright SL [Eds.]. The Benzodiazepines Crisis: The Ramifications of an Overused Drug Class. New York, NY: Oxford University Press, 2020.)

Commented [79]: Reference:

Wright SL. Benzodiazepine Withdrawal: Clinical Aspects. In: Peppin JF, Raffa RB, Pergolizzi JV, Wright SL [Eds.]. The Benzodiazepines Crisis: The Ramifications of an Overused Drug Class. New York, NY: Oxford University Press, 2020.

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[References: Bachhuber MA, Hennessy S, Cunningham CO, Starrels JL. Increasing benzodiazepine prescriptions and overdose mortality in the United States, 1996-2013. Am J Pub Health. 2016;106:686-8.

National Institute on Drug Abuse. National Drug Overdose Deaths Involving Benzodiazepines by Opioid Involvement, Number Among All Ages 1999-2017. Figure 8. January 2019.

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and suicide.

Dodds TJ. Prescribed benzodiazepines and suicide risk: a review of the literature. Prim Care Companion CNS Disord. 2017;19(2).

Ghosh T, Bol K, Butler M, et al. Epidemiologic assessment of benzodiazepine exposure among suicide deaths in Colorado, 2015-2017. BMC Public Health. 2020;20:1149.

Mallon L, Broman JE, Hetta J. Is usage of hypnotics associated with mortality? Sleep Med. 2009;10(3):279-86.]

Commented [82]: Reference:

Brandt J, Leong C. Benzodiazepines and Z-Drugs: An Updated Review of Major Adverse Outcomes Reported on in Epidemiologic Research. Drugs R D. 2017 Dec;17(4):493-507.

Public comments accepted through Friday, July 19, 2024 via the online survey form at **Appendix A.**

Glossary of Terms

<https://bit.ly/BZDCPG>

1 refill, **as well as to employ non-BZD alternatives to better allow for transitioning away from the**
2 **use of BZDs.** At minimum this assessment **should occur every month**~~three months~~. For patients
3 who have just initiated a prescription for BZD, reassessment of risks and benefits should occur
4 within one month, and ideally much sooner given the potential for rapid development of BZD
5 **physiological** dependence. A new BZD prescription represents an opportunity to proactively
6 review risks and benefits of BZD use, and to provide patient education regarding the importance
7 of limiting the duration of use. Many patients as well as clinicians are unaware that clinical
8 benefits of BZD decrease within a few weeks, while risks continue or increase. Virtual follow-up
9 visits can often be leveraged for this purpose.

10 Given that polypharmacy is common among patients who use BZDs, clinicians should conduct a
11 thorough medication review as part of the regular risk–benefit assessments and prior to
12 beginning a taper.¹⁴ Prescription drug monitoring programs (PDMP) **and drug testing (primarily**
13 **urine but also saliva, cognizant of limitations with respect to BZD identification)** can be helpful
14 tools for detecting multiple BZD prescriptions, concurrent prescribing of other controlled
15 substances with CNS depressant effects, and other issues related to polypharmacy. While
16 mandates regarding PDMP use vary widely across states, the committee noted that prescribing
17 clinicians should review the information in the relevant PDMP as a part of the risk benefit
18 assessment, with each new BZD prescription and refill authorization.

19 Combined use of BZDs and opioids increases the risk of adverse events, including fatal and
20 nonfatal overdose, due to the central nervous system (CNS) depression caused by both drug
21 classes.^{5,17,40} Other interactions with BZDs include additive sedation with sedating medications
22 (e.g., antihistamines, antipsychotics, opioids), and pharmacokinetic interactions involving P450
23 (CYP) enzymes (See [Appendix F](#)). Excessive sedation has been observed when BZDs have been
24 used with CYP 3A4 inhibitors **and/or competitors**, which includes common antibiotics like
25 clarithromycin and erythromycin, **as well as antiretrovirals and opioids such as fentanyl and**
26 **oxycodone.**⁴¹ Additionally, clinicians should explore patients’ consumption of alcohol, a CNS
27 depressant, and grapefruit juice¹, a strong CYP 3A4 inhibitor.⁴¹

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Where does this come from? I see no research to validate this statement.

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to clarify that this separates from addiction (BUD)

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Commented [87]: Reference:
Goulay DL, Heit HA, Coplan YH, et al. Urine drug testing in clinical practice. 2015. PharmaCon Corp.

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¹ at least 8 oz or half a grapefruit per day.

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Glossary of Terms

<https://bit.ly/BZDCPG>

1 If clinical evidence reveals that the medication is no longer benefiting the patient or the
2 medication is causing harms that outweigh benefits, tapering is indicated.²⁹ Additionally, if the
3 patient exhibits signs of potential BZD misuse, including requesting early refills or continued
4 requests for increased dosage or number of pills, tapering should be discussed with the patient.
5 The patient should be assessed or referred for further evaluation and treatment for potential SUD.

6 While long-term BZD use should generally be avoided, exceptions do exist.⁴²⁻⁴⁴ Additionally,
7 BZDs have a role in certain medical conditions such as complex seizure disorders and spasticity,
8 or in palliative/end of life care settings (see Table),^{45,46}

9 Even when the risk-benefit assessment favors BZD tapering, discontinuation of the medication
10 may present risks.⁴⁷ A recent study of a US commercial database indicated that the mortality risk
11 among patients who discontinued BZD use over a six-month period was 1.6 times higher
12 compared to those who had not discontinued use. However, the analysis could not examine the
13 reason for discontinuation and did not account for the rate of the taper or discontinuation.⁴⁷

14 While the findings suggest an association between discontinuation of BZD and mortality risk,
15 this correlation may reflect the underlying reason for BZD discontinuation such as declining
16 health (e.g., liver or kidney dysfunction), falls, or cognitive decline – rather than having been
17 caused by the discontinuation. In contrast, major adverse events were not seen in a controlled
18 trial evaluating a patient educational intervention for BZD tapering⁴⁸ and only one adverse event
19 was reported among 364 patients after initiating a primary care-based intervention for BZD
20 tapering.⁴⁹

21 The committee carefully considered the results of this study but, ultimately, do not believe that
22 these findings should outweigh the extensive body of literature characterizing the risks
23 associated with BZD use. However, as discussed throughout this Guideline, the prescribing
24 clinician should carefully consider the risks and benefits of both continued BZD use and tapering
25 for the given patient and should not assume that tapering is the right choice for all patients. For
26 some patients there may be risk associated with stopping the BZD which should be taken into
27 account based on their individual needs and circumstances. Tapering should be undertaken
28 carefully, accompanied by additional research to better understand the potential risks of BZD
29 desprescribing and develop strategies to mitigate them.

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Need to define what is major and what is not.

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one major one.

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The Vicens study here was designed to compare 2
discontinuation approaches and with a no intervention
control group. Adverse event were secondary
outcomes measured in part by scales and otherwise
selected by patients from a list (not provided in the
article). I could not find the number "364 patients" in the
article. "only one adverse event" is inaccurate.
Discussion of the symptoms that were scaled was
included but no list of reported symptoms, yet it was
stated the "most frequently reported withdrawal ... at 6
months were insomnia, anxiety, and irritability" More
than one! I think the author of this stamen in the ASAM
draft meant to say one serious adverse event which
was the case here.

Commented [94]: This is a misreading of the study.
Please review and rewrite with qualifications.

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Glossary of Terms

<https://bit.ly/BZDCPG>

1 Many patients who have been taking BZDs for less than 4 weeks are able to discontinue the
2 medication without a taper. However, physiological dependence can develop in as little as 2
3 weeks, depending on medication and patient characteristics. In deciding whether to taper in these
4 situations, the dose and type of BZD should be considered. Alprazolam, which is unique in
5 having a very short half-life and no active metabolites, tends to be associated with a more rapid
6 onset of physiological dependence.⁵⁰ Therefore, a taper may be appropriate for patients taking
7 this medication daily, even for a short duration.

8 Further, when determining whether to taper with a patient who has been taking BZD for less than
9 4 weeks, the clinician should elicit information from the patient regarding any concerns about
10 abrupt discontinuation or preferences for tapering. The clinician should gather information about
11 the patient's risk for withdrawal, including asking whether the patient has experienced
12 withdrawal symptoms if they have missed doses in the past, and any past experiences with
13 withdrawal symptoms associated with tapering BZD, especially adverse events including
14 seizures. It is also important to determine if there is ongoing daily alcohol use, as alternate
15 strategies may be needed in these situations. In such cases, consider consulting an addiction
16 specialist.

17 If the BZD is discontinued without a taper in a patient who has been using BZD for less than a
18 month, the patient should be educated about and encouraged to report any withdrawal and/or
19 rebound symptoms or functional decline that may occur. If the patient reports significant
20 symptoms, the clinician can consider initiating a taper.

21 Recommendations for Considerations for Tapering BZDs

22 6. For each patient taking BZD, prescribing clinicians should ideally assess the risks and
23 benefits of ongoing BZD prescribing at least every 3 months (*Clinical consensus, Strong*
24 *Recommendation*).

25 e-e. At a minimum, risks and benefits should be assessed with each new BZD prescription
26 or BZD prescription refill authorization (*Clinical consensus, Strong*
27 *Recommendation*).

28 d-f. Prescribing clinicians should review the information in the relevant PDMP as a part
29 of the risk benefit assessment (*Clinical consensus, Strong Recommendation*).

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<https://bit.ly/BZDCPG>

- 1 7. When the risks of BZD medication outweigh the benefits for a given patient, tapering is
2 generally indicated (*Clinical consensus, Strong Recommendation*).
- 3 b. The clinician should initiate a conversation about tapering, including alternatives for
4 management of the underlying condition (*Clinical consensus, Strong*
5 *Recommendation*).
- 6 8. Clinicians should avoid abruptly discontinuing BZD medication in patients who have been
7 taking BZD daily or near daily (e.g., more days than not) for longer than one month (*Low*
8 *certainty, Strong Recommendation*).
- 9 a. While many patients who have been taking BZD for less than 4 weeks are able to
10 discontinue the medication without a taper, clinicians can consider a short taper
11 (*Clinical Consensus, Conditional Recommendation*).
- 12 i. If the BZD is discontinued without a taper the patient should be counseled to
13 report the emergence of withdrawal and/or rebound symptoms (*Clinical*
14 *Consensus, Strong Recommendation*).
- 15 1. If significant symptoms emerge, the clinician can consider medications for
16 symptom management or restarting the BZD and initiating a taper
17 (*Clinical Consensus, Conditional Recommendation*).

18 **Level of Care Considerations**

19 For patients without significant complicating factors, BZD tapering can usually be accomplished
20 in an outpatient setting. In certain situations, patients may desire a more rapid taper. The
21 committee noted that individual circumstances (e.g., work requirements, child custody issues, or
22 respiratory depression) may motivate a patient to discontinue BZD use relatively rapidly.
23 Assuming medical necessity can be established, these patients may be candidates for an inpatient
24 taper.

25 It is important to note that the tapering process might take place in more than one setting. For
26 example, patients who have significant risk factors as described above may be.g.in a BZD taper
27 in an inpatient setting, and transition to an outpatient setting for continued management, once
28 they are stable and able to tolerate the ongoing tapering process.

Commented [96]: The next block of suggested text extends to just before "In certain situations, patients may desire a more rapid taper." It is intended to refine the conditions where and inpatient taper, or part of one, is indicated. Note that the bottom line is that they should be the exception, not the rule.

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<https://bit.ly/BZDCPG>

1 There are also situations in which an inpatient setting may not be an optimal option for a given
2 patient. For example, hospital admission can trigger distress, confusion, and delirium and lead to
3 worse outcomes in patients with dementia or other neurological issues.^{51,52}

Recommendation for Level of Care Considerations

9. Inpatient care should be considered when:

- 6 a. Patient presentation indicates an imminent risk for significant harm related to
7 continued use of BZD even with gradual taper (e.g., overdose, accidents, falls,
8 suicidality or other self-harm) (*Clinical consensus, Strong Recommendation*);
- 9 b. Patient symptoms and/or co-occurring physical or mental health conditions [e.g.,
10 seizure disorder, concomitant use of medications that lower the seizure threshold]
11 cannot be safely managed in the outpatient setting (*Clinical consensus, Strong
12 Recommendation*);
- 13 c. The patient is experiencing or imminently anticipated to experience severe or
14 complicated withdrawal (*Clinical consensus, Strong Recommendation*); and
- 15 d. The patient has a history of severe or complicated withdrawal (*Clinical consensus,
16 Strong Recommendation*).

BZD Tapering Strategies

Partnering with Patients

19 When BZD tapering is indicated, clinicians should initiate a conversation with patients with a
20 goal of shared decision-making. The invitation to discuss BZD discontinuation can be made by
21 means of effective, research-based strategies: during clinical contacts, by means of a letter, or
22 through a pharmacist. Clinicians should invite patients to share their perceptions about the
23 benefits and risks of continuing BZDs as well as share their own with the patient. While some
24 patients will be understandably reluctant to consider tapering a medication they have been taking
25 for a long time and consider helpful, others may welcome the opportunity to minimize potential
26 adverse effects and explore more optimal ways of controlling their underlying condition.^{30,31}
27 Appendix G lists resources on the treatment of condition for which BZDs are commonly
28 prescribed, including insomnia, anxiety, seizure disorders, and chronic pain.

Commented [97]: After 6 years of looking, none of our medical affiliates nor any BZD patient advocacy group has found an inpatient setting that treats BZD withdrawal anywhere close to the proposed guidelines as currently written, even without the needed changes noted above. Inpatient treatment works great for the easy cases, but there is no way of identifying the ~25% that cannot taper within the time constraints of an inpatient setting.

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Before this paragraph add paragraph:
"It is unknown as to how many patients taking BZDs experience challenges related to them. There are some tens of thousands who have reached out to online groups and abandoned their clinicians, and many of these individuals report that they do so because they have found that their medical providers lack the knowledge and ability to provide the support they need. Practitioners, in turn, are unaware of these patients who are no longer in their practices, so it is incumbent on them they do what they can to authentically engage their patients around BZDs and BZD-associated challenges."

Commented [102]: SW
Darker CD, Sweeney BP, Barry JM, et al. Psychosocial interventions for benzodiazepine harmful use, abuse or dependence. *Cochrane Database Syst Rev.* 2015;(5):CD009652.

Guaiana G, Barbui C. Discontinuing benzodiazepines: best practices. *Epidemiol Psychiatr Sci.* 2016;25(3):214-6.

Martin P, Tamblyn R, Ahmed S, Tannenbaum C. A drug education tool developed for older adults changes knowledge, beliefs and risk perceptions about inappropriate benzodiazepine prescriptions in the elderly. *Patient Educ Couns.* 2013;92(1):81-7.

Cooper JA, Cadogan CA, Patterson SM, et al. Interventions to improve the appropriate use of polypharmacy in older people: a Cochrane systematic review. *BMJ Open.* 2015;5(12):e009235.

Ng BJ, Le Couteur DG, Hilmer SN. Deprescribing benzodiazepines in older patients: impact of

Commented [103]: Risks and benefits should be part of this guideline, and not left up to the clinician to determine.

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Glossary of Terms

<https://bit.ly/BZDCPG>

1 Education is a vital component of conversations about tapering. Clinicians should inform
2 patients about how the clinical benefits of BZD decrease over time while the risk of adverse
3 effects increases. The perception of benefit may be inaccurate as it is found that by BZD
4 discontinuation, some will actually see improvement of the primary symptoms of the medical
5 condition that led to initiation of BZDs in the first place. Clinicians should stress the benefits
6 patients can expect from reducing or discontinuing their BZD medication, such as improved
7 cognition and psychomotor functioning.⁵³

8 T[START BOX]

9 Physiological dependence versus substance use disorder (SUD)

10 Physiological dependence on BZDs is a biological phenomenon that develops in response to
11 repeated use of a medication. It results from downregulation of BZD receptors and/or adaptations
12 in the response of the receptor primarily affected GABAA receptor as well as multiple other
13 receptors or receptor systems: glutaminergic, serotonergic, adenosine, neuroendocrine [HPA
14 axis], and peripheral translocator protein (TSPO, AKA “peripheral BZD receptor”).
15 Physiological dependence is an expected result from ongoing use of BZD. Conversely, SUD is a
16 chronic disease associated with functional changes to the brain circuits that mediate stress,
17 decision making, and behavior reinforcement. In addition to physiological dependence, SUD is
18 associated with specific criteria including impaired control over use of the substance and
19 continued use despite adverse consequences. There are genetic, psychosocial, and environmental
20 factors influencing the development and manifestations of SUD. A review of NSDUH data
21 estimated that only 1.5% of people who use BZD met criteria for a BZD use disorder.⁵⁴ Patients
22 who use BZD and are physiologically dependent on the medication are far more common
23 than patients who have a BZD use disorder.

24 [END BOX]

25 The concept of shared decision making is built on engaging patients as active participants in their
26 treatment rather than passive recipients.⁵⁵ Approaching tapering decisions as a partnership with
27 the patient allows clinicians to gather valuable information to better tailor treatment plans,
28 including BZD tapering protocols, to each individual patient’s unique goals and preferences. It

Commented [105]: References:

Ashton H. Benzodiazepine withdrawal: outcome in 50 patients. Br J Addict. 1987;82:655-71.
Fava GA, Grandi S, Belluardo P, et al. Benzodiazepines and anxiety sensitivity in panic disorder. Prog Neuropsychopharmacol Biol Psychiatry. 1994;18(7):1163-8.

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Ashton H. Benzodiazepine withdrawal: outcome in 50 patients. Br J Addict. 1987;82:655-71.

Cantopher T, Olivieri S, Cleave N, et al. Chronic benzodiazepine dependence. A comparative study of abrupt withdrawal under propranolol cover versus gradual withdrawal. Br J Psychiatry, 1990;156:406-11.

Fava GA, Grandi S, Belluardo P, et al. Benzodiazepines and anxiety sensitivity in panic disorder. Prog Neuropsychopharmacol Biol Psychiatry. 1994;18(7):1163-8.

Péllissolo A, Maniere F, Boutges B, et al. Anxiety and depressive disorders in 4,425 long term benzodiazepine users in general practice. Encephale. 2007;33(1):32-8.

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Needs refs

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Wright SL. Benzodiazepine Withdrawal: Clinical Aspects. In: Peppin JF, Raffa RB, Pergolizzi JV, Wright SL [Eds.]. The Benzodiazepines Crisis: The Ramifications of an Overused Drug Class. New York, NY: Oxford University Press, 2020.
Allison C, Pratt JA. Neuroadaptive processes in GABAergic and glutaminergic systems in benzodiazepine dependence. Pharmacy Ther. 2003;98:171-95.
Miller LG, Koff JM. Interaction of central and peripheral benzodiazepine sites in benzodiazepine tolerance and discontinuation. Prog Neuropsychopharmacol Biol Psychiatry. 1994;18(5):847-57.
Listos J, Talarek S, Fidecka S. Adenosine receptor agonists attenuate the development of diazepam withdrawal -induced sensitization in mice. Our J Pharmacol. 2008 Jun 24;588(1):72-7.
Heberlein A, Bleich S, Kornhuber J, Hillemecher T. Neuroendocrine pathways in benzodiazepine dependence: new targets for research and therapy. Hum Psychopharmacol. 2008 April;23(3):171-81.
Miller LG, Koff JM. Interaction of central and peripheral benzodiazepine sites in benzodiazepine tolerance and discontinuation. Prog Neuropsychopharmacol Biol Psychiatry. 1994;18(5):847-57.

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This implies a fixed process

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<https://bit.ly/BZDCPG>

also highlights the value of the patient’s own experiences, thereby promoting their autonomy and empowering them to actively contribute to their own care.⁵⁵

Recommendation Statement for Partnering with Patients

10. The BZD tapering strategy should be developed in coordination with the patient and/or their care partner(s) in a shared decision-making process, whenever possible (*Clinical consensus, Strong Recommendation*).

The Tapering Process

Assessing the Potential for Withdrawal Symptoms and Functional Consequences

Clinicians should consider the likelihood of a given patient developing withdrawal symptoms during the taper, as well as the anticipated severity of those symptoms. The development of more severe BZD withdrawal symptoms is associated with use of BZDs with a shorter half-life (e.g., alprazolam), higher total daily dose, daily use, longer duration of use, and history of severe withdrawal.^{29,56,57} For patients with significant risk for withdrawal a slower initial pace of BZD tapering is likely to be safer, and more effective, and highly advised. As discussed above, patients should be involved in determining the initial pace with clinicians, and the tapering pace should be agreed upon in a shared decision-making process, but should generally be no more than a 5-10% reduction from the patient’s current dosage, with subsequent reductions at an amount and interval dependent upon the patient’s reported responses. Some publications, including guidance documents, indicate that beginning the taper with a 25% dosage reduction is reasonable, but this is not recommended. In a 1990 study by Schweitzer et al, the defined endpoint was complete BZD discontinuation initiated with a 25% reduction. Of the 63 patients, a significant minority (32% on long-acting BZDs, and 42% on short-acting BZDs) did not reach the endpoint even though they had the option for dosage reductions less than 25% after starting the process. That a 25% reduction is far too great is also reflected in online surveys of patients as well. Because there is no way of predicting whether a patient is likely to experience severe withdrawal symptoms or major functional decline, it is essential to minimize suffering and harm by starting all tapers slowly (no more than 5-10% of current dosage) and adjusting up or down depending on patient response.

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Commented [112]: Beyond the list in the sentence above, there is no way of predicting whether a patient is likely to experience WD nor the severity they are likely to experience. This is why it is essential to minimize suffering and harm by starting all tapers slowly and adjusting up or down depending on patient response.

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Commented [114]: Horowitz M. The Maudsley Deprescribing Guidelines: Antidepressants, Benzodiazepines, Gabapentinoids, and Z-Drugs. John Wiley & Sons, Inc: West Sussex, UK. 2024. Ashton CH. Benzodiazepines: How They Work and How to Withdraw (The Ashton Manual). Benzodiazepine Information Coalition; 2002.

Commented [115R114]: ++Key topic++

Commented [116]: Reference: Schweitzer E, Rickels K, Case G, Greenblatt DJ. Long-term therapeutic use of benzodiazepines: II. Effects of gradual taper. Arch Gen Psychiatry. 1990;47(10):908-15.

Commented [117]: References: Ritvo AD, Foster DE, Huff C, Finlayson AJR, Silvernail B, Martin PR. Long-term consequences of benzodiazepine-induced neurological dysfunction: a survey. PLoS ONE. 2023;18(6):e0285584.

Huff C, Finlayson A, Foster D, Martin P. Enduring neurological sequelae of benzodiazepine use: an internet survey. Ther Adv Psychopharmacol. 2022;12:1–9.

Finlayson A, Macoubrie J, Huff C, Foster D, Martin P. Experiences with benzodiazepine use, tapering, and discontinuation: an Internet survey. Ther Adv Psychopharmacol. 2022;2:1–10.

Fixsen AM, Ridge D. Stories of Hell and Healing: Internet Users’ Construction of Benzodiazepine Distress and Withdrawal. Qual Health Res. 2017;27(13):2030–41. pmid:28891380.)

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Glossary of Terms

<https://bit.ly/BZDCPG>

1 Begin benzodiazepine taper by making no more than a 5-10% initial reduction of the current
2 dosage. Subsequent reductions can be lesser than, the same as, or greater than 5-10% of the
3 subsequent dosage level, depending on the patient’s reported response.

4 Particular attention should be paid to ascertaining if patients have experienced seizures in the
5 past, as such a history can increase the risk of BZD withdrawal seizures.⁵⁸ Clinicians should also
6 conduct a thorough medication reconciliation as medications that lower the seizure threshold can
7 increase the risk of withdrawal seizures.

8 The presence of certain psychiatric symptoms has been associated with an increased likelihood
9 of experiencing more severe withdrawal symptoms, which can present challenges to successful
10 completion of BZD tapering.^{57,59} Patients who exhibit traits associated with cluster B personality
11 disorders (i.e., antisocial, borderline, histrionic, and narcissistic) often experience considerable
12 difficulty discontinuing BZD use.^{57,59} One should be cautious, however, in over-diagnosing
13 somatization when physical symptoms are prominent in BZD tapering. Such physical symptoms
14 are almost always part and parcel to BZD withdrawal per se and not a new somatization disorder
15 (see a partial listing of physical withdrawal symptoms in Table __ below). See the
16 Considerations for Patients with Co-occurring Psychiatric Disorders section for additional
17 discussion.

Transitioning to a Longer-Acting BZD

18 Existing clinical guidelines disagree on whether patients who are currently taking a short-acting
19 BZD should be transitioned ([via process of partial dose substitution or cross tapering](#)) to a
20 longer-acting BZD (i.e., with a longer half-life) for the taper.⁶⁰ Some existing guidance suggests
21 that switching to a longer-acting BZD allows the body “to adjust slowly to a decreasing
22 concentration of the BZD” and to therefore reduce withdrawal symptoms, particularly those
23 symptoms that accelerate during any one day, termed interdose withdrawal.^{29,61} Conversely,
24 switching to longer acting BZDs may be a concern for anyone with contraindications (e.g.,
25 significant liver/renal dysfunction [and decreased hepatic/renal metabolism with age](#)) and those
26 taking multiple medications, due to risk of pharmacodynamic and pharmacokinetic interactions.

27 In addition, the long-acting agent that is newly used may cause new challenging, worsening,
28 and/or unacceptable symptoms compared to the original BZD(s), such as sedation. The

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1 committee suggested that the decision to switch to a longer-acting BZD should be patient-
2 specific, and that clinicians should consider liver function and concurrent medication use in
3 patients before making a recommendation to switch to a longer acting formulation.

4 The issues related to switching to a longer-acting GABAA active agent BZD are of particular
5 concern in older adults due to differences in drug metabolism. Older adults may be at greater risk
6 of medication-related harm because of age-related changes in pharmacokinetics and
7 pharmacodynamics such as reduced clearance of certain sedative hypnotic medications.^{62,63}
8 Decreased metabolism in older adults changes how the body processes and responds to
9 medications causing medications to stay in the body longer, increasing the risk of adverse
10 effects.^{62,63} Additionally, as people age, decreases in liver and kidney function may increase the
11 risks of some medications. In a recent scoping review of several international guidelines for BZD
12 tapering,⁶⁰ the two guidelines that did not recommend switching to a longer-acting BZD were
13 both focused on older adults.^{28,64} The committee agreed that switching to a longer-acting BZD
14 for tapering would be less likely to be indicated in older adults.

15 Guidelines that recommend transitioning to a long-acting GABAA active agent: diazepam,
16 clonazepam, phenobarbital, longer acting BZD most commonly endorse switching to diazepam,
17 though a few suggest clonazepam or chlordiazepoxide.^{50,65} However, these medications are
18 metabolized in the liver and have active metabolites, and neither should be used in patients with
19 significant hepatic impairment.^{60,66} Instead, shorter acting agents (e.g., lorazepam, oxazepam,
20 and temazepam) are considered better agents to use in these patients.^{60,66} Instead, shorter acting
21 agents (e.g., lorazepam, oxazepam, and temazepam) are considered better agents to use in these
22 patients.^{60,66}

23 In that case, lorazepam and oxazepam, which do not undergo phase 1 metabolism in the liver (CP450
24 metabolism) in thare not metabolized by the liver are preferable. The committee also noted that the
25 conversion to diazepam equivalents is not straightforward. Clinicians should consider counseling
26 patients currently taking alprazolam to transition to a longer acting BZD for the taper, as
27 alprazolam tends to be difficult to taper given that it is short acting and has no active
28 metabolites.⁵⁰ See Appendix H for estimated diazepam dose equivalents.

Commented [123]: Diazepam is available in formulations such as Intensol that allow "micro-tapering", i.e., dose reductions that are less than 1/4 of the lowest available dose in pill form. In difficult withdrawal cases, particularly in the last 25% of a taper, micro-tapering has been shown to be the most effective means of completing the discontinuation while minimizing withdrawal symptoms. (Note that this is per input of some 100K patients scattered across several advocacy groups, since there are no published studies on this topic.)

Commented [124]: SW
Typically, not long enough acting. Recommend replacing with phenobarbital

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It is not because they are shorter acting that there is a recommendation – it is because they are not metabolized by the liver. Temazepam is metabolized by the liver and should not be included here. Chlordiazepoxide is not reliably long-acting: half-life 5-30 hours.

Replace with:
"In that case, lorazepam and oxazepam, which are not metabolized by the liver are preferable."

Commented [126]: This is not peculiar to alprazolam; more studies have been done on alprazolam, since it is the most widely prescribed BZD. Other short half-life BZDs (e.g. lorazepam) have the same characteristics.

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1 Conversion to a different GABAA active agent and transition to that agent can be challenging. It
2 begins with determining the “diazepam equivalent” of the agent (see Appendix H). However,
3 these are only estimates, and patients differ considerably. For that reason, direct transition to a
4 new agent is not recommended. Rather, this should be performed by cross tapering, whereby on
5 a stepwise fashion the new agent is added and increased in sequential stages while the original
6 agent is correspondingly decreased in dosage according to dosage estimates and patient response.
7 Once the transition is complete, stabilization should be ensured for at least a month before the
8 taper itself is initiated. Note that even after transitioning to a long-acting agent, the total amount
9 for any one day (dosage) may still need to be divided through the day (doses) in order to avoid or
10 minimize interdose withdrawal.

12 Tapering Process Schedules

13 BZDs should not be abruptly discontinued in patients taking the medication daily or near daily
14 (e.g., more days than not) for longer than one month.^{28,29,60} Most existing clinical guidelines
15 highlight the importance of gradual dose reductions to discontinue prolonged BZD use.⁶⁰ If
16 patients are extremely reluctant or anxious about tapering, clinicians can suggest a “trial” dose
17 reduction rather than asking patients to commit to a particular tapering plan. This approach may
18 increase patients’ motivation, self-efficacy, and willingness to continue with tapering.⁶⁷
19 However, it is important that the clinician clearly communicate any concerns for the patient’s
20 safety with ongoing BZD use and assure them that the clinician will be engaged with the patient
21 to address the response to tapering as well as the underlying medical condition(s).

22 Several BZD tapering schedules have been described in the literature.⁶⁰ Proposed tapering
23 schedules vary from dose reductions in increments of 5% to 10% every 2-4 weeks with slower
24 reduction at lower doses to reductions of 10% to 25% every 1-2 weeks.⁶⁰ The committee
25 highlighted the importance of the BZD dose and length of time the patient has been taking the
26 BZD when determining an approach to tapering. All things considered, it is recommended that
27 clinicians prescribe Provide an initial test reduction of no more than 5-10% of the total daily dose
28 to assess initial patient sensitivity to tapering. Table 1 summarizes the committee’s
29 recommendations on initial approaches to tapering based on these factors. Though schedules are

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Avoid “schedules” as this implies a fixed process,
rather use “trajectory”

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substitution above

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associated table in favor of the language suggested
that says 5-10% for everyone with adjustments
thereafter depending on patient response.

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1 presented in the literature, they should never be considered to be fixed, and adjustments to the
2 amount of and interval between reductions are much more likely to be necessary.

3 The initial amount of BZD reduction should not exceed 5-10%.

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4 Although a 25% reduction of BZD dosage might be successful, this is not successful for many
5 patients. This is particularly important because for that cohort a large initial reduction (> 5-10%)
6 can not only cause severe symptoms and marked functional decline for that first reduction but
7 also can set the stage for severe and even devastating consequences with subsequent reductions
8 cascading going forward.

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9 Subsequently, for those persons who have no or minimal difficulty with the initial 5-10%
10 reduction, larger reductions subsequently can be considered and employed. Such an approach
11 will provide a safer and more effective pathway to complete discontinuation for those adversely
12 affected by more rapid reductions, yet also allow for advancing the rate of reduction of and
13 completing BZD tapering expeditiously for those who are found to not have such challenges.
14 Obversely, for those who do experience severe symptoms and/or marked functional decline with
15 a 5-10% reduction, adjusting the subsequent reductions downward as a percentage of the current
16 dosage is indicated.

17 Similarly, the duration of the interval between reductions should be individualized. The patient's
18 response to the first 5-10% reduction should be assessed in 2-4 weeks. If it is evident BZD use is
19 causing life-threatening consequences (e.g., poor or tenuous oxygenation status), reductions
20 should proceed expeditiously: perhaps 1 week intervals for short-acting agents, 2 week intervals
21 for longer-acting agents, depending on patient response (e.g., oxygenation status and patient
22 report). For other than life-threatening circumstances, it is important to allow the level of
23 symptom severity and/or functional loss to dissipate to a tolerable level prior to the next
24 reduction. This requires close attention and response to patient response which is expected to be
25 reliable, though not always in the case of addiction.

26 Only a single study was identified comparing a fixed schedule of reductions compared to BZD
27 dosing vs symptom-triggered tapering. McGregor et al found no difference at 1 month for a total
28 of 54 patients divided between the two approaches. This research has not been reproduced, is

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1 insufficient in terms of numbers of patients and observation period, addresses prn dosing for
 2 each day and not an agreed upon dosage to be maintained for an agreed upon time, and is
 3 countered by the experiences reported among those responding to online surveys.
 4 In the absence of high-quality prospective studies, then, clinicians should avoid fixed schedules
 5 and as-needed dosing plans in favor of patient-directed flexible approaches.

7 **Table 1. Example BZD tapering strategies based on dose and duration of use***

	<i>Lower therapeutic dose (1-2x lowest therapeutic dose)</i>	<i>Higher therapeutic dose (3 or more x lowest therapeutic dose)</i>
Less than 12 months	<i>Clinicians can typically reduce the BZD dose by 25% every 2 weeks</i>	<i>Clinicians can typically reduce the BZD dose by 10-25% every 4 weeks</i> <i>Adjust based on the patient's response</i> <i>Taper should not exceed 25% every 4 weeks</i>
12 or more months	<i>Clinicians can typically reduce the BZD dose by 25% every 4 weeks</i>	<i>Clinicians can typically reduce the BZD dose by 5-20% every 4 weeks</i> <i>Clinicians should consider the lower end of the range for the first reduction (e.g., 5-10%) to assess the patient's initial response.</i> <i>Adjust based on the patient's response</i> <i>The taper should not exceed 20% every 4 weeks</i> <i>Clinicians can consider a slower taper (e.g., every 6-8 weeks) as appropriate</i>

8 **These are examples of tapering approaches, but patient specific tapering strategies should be*
 9 *developed in collaboration with the patient with consideration of the duration and frequency of*
 10 *use, dose, metabolic concerns, and comorbidities.*

Commented [132]: References:
 Ritvo AD, Foster DE, Huff C, Finlayson AJR, Silvernail B, Martin PR. Long-term consequences of benzodiazepine-induced neurological dysfunction: a survey. PLoS ONE. 2023;18(6):e0285584.

Huff C, Finlayson A, Foster D, Martin P. Enduring neurological sequelae of benzodiazepine use: an internet survey. Ther Adv Psychopharmacol. 2022;12:1-9.

Finlayson A, Macoubrie J, Huff C, Foster D, Martin P. Experiences with benzodiazepine use, tapering, and discontinuation: an Internet survey. Ther Adv Psychopharmacol. 2022;2:1-10.

Fixsen AM, Ridge D. Stories of Hell and Healing: Internet Users' Construction of Benzodiazepine Distress and Withdrawal. Qual Health Res. 2017;27(13):2030-41. PMID:28891380.

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1 †The lowest therapeutic dose is the lowest starting dose of the medication that is typically
2 prescribed for a given indication and patient population (e.g., older adults). This is often the
3 lowest dose per pill available.
4

5 Another consideration when developing tapering schedules may include the health condition or
6 symptoms that BZDs are being used to manage. For example, if BZDs have been used for
7 anxiety with insomnia, clinicians can recommend that the patient taper the morning dose first if
8 doses are divided throughout the day. It is important that the clinician in partnership with the
9 patient initiates non-BZD alternatives for the targeted underlying condition(s) prior to initiating
10 BZD tapering and to adjust the treatment approach over time if the initial alternative choice or
11 choices are found to be insufficient.

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12 See [Appendix I](#) for sample tapering schedules and case descriptions.

13 The CGC emphasized that clinicians should engage patients as active partners in a shared
14 decision-making approach to develop an individualized tapering schedule that reflects a given
15 patient's goals, needs, and preferences. The FDA also underscored the importance of developing
16 individualized tapering strategies in a 2020 Drug Safety Communication³³:

17 To reduce the risk of acute withdrawal reactions, use a gradual taper to reduce the
18 dosage or to discontinue benzodiazepines. No standard benzodiazepine tapering
19 schedule is suitable for all patients; therefore, create a patient-specific plan to
20 gradually reduce the dosage, and ensure ongoing monitoring and support as needed to
21 avoid serious withdrawal symptoms or worsening the patient's medical condition (pg.
22 2).

23 Adjusting the taper trajectory

24 Tolerable, safe, and effective tapering is not expected to ~~Tapering does not have to~~ proceed at the
25 same pace or linearly over the entire process; rather, pacing should be adjusted based on the
26 patient's response. While clinicians and patients can prepare for the BZD tapering process by
27 setting realistic expectations around the potential withdrawal and/or rebound symptoms a given
28 patient may be likely to experience, there is no way to accurately predict the extent and severity
29 of symptoms that will manifest once tapering is underway. For this reason, patients should be

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1 monitored for signs and symptoms of withdrawal, their severity and the extent of functional
2 effect with each dose reduction and counseled to report any concerning symptoms. Clinicians
3 should discuss this inherent uncertainty with patients so that, together, they can adjust the
4 planned tapering schedule as necessary. Adjustments could include pausing the taper, slowing
5 the pace of the taper, and/or making smaller dose reductions and/or longer intervals between
6 reductions. The committee noted that clinicians should generally avoid going back up to a
7 previous dose as this can undermine the goal of re-setting BZD receptor levels in the brain, as
8 well as causing kindling effects.

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9 The pace of BZD tapering should be based on the patient's response to the initial 5-10%
10 reduction. If this is well tolerated, then the next reduction can be increased as a percentage or
11 absolute amount. Obversely, if that first reduction results in poorly tolerated symptoms or
12 functional decline, then the next decrement should be smaller. Each subsequent reduction should
13 be made in kind: based on the patient's experience, which in that sense means the taper
14 fundamentally is to be patient-directed. This can be done fairly easily if diazepam is the BZD
15 used. Diazepam is available not only in multiple mg strengths as tablets but also as an oral
16 solution 5mg/ml which can be measured and diluted to provide any mg doses.

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References:
Vgontzas AN, Kales A, Bixler EO. Benzodiazepine side effects: role of pharmacokinetics and pharmacodynamics. *Pharmacology*. 1995;51(4):205-23.

Allison C, Pratt JA. Neuroadaptive processes in GABAergic and glutamatergic systems in benzodiazepine dependence. *Pharmacol Ther*. 2003;98(2):171-95.
Stephens DN. A glutamatergic hypothesis of drug dependence: extrapolations from benzodiazepine receptor ligands. *Behav Pharmacol*. 1995;6(5 And 6):425-46.

17 However, other BZDs do not have liquid options or capsule sizes, tablet sizes, or tablet scoring
18 that allow for the mg doses needed. For example, a patient on 3mg of clonazepam initially, a
19 10% reduction amounts to 0.3mg which does not correspond to commercially available products
20 or tablet-splitting. When possible, a compounding pharmacist (if available) can prepare the BZD
21 to deliver the required dose. That is not always possible and presents a particular challenge.

22 Because some patients have the need for non-corresponding doses and when compounding
23 options are not available, other means of dividing BZDs have been employed.

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Some of this may be redundant

24 This Guideline uses two terms to describe an interruption to the planned taper: pausing and
25 maintaining. When a taper is paused, the intent is for the patient to remain at the current dose
26 until their symptoms stabilize and then continue with dose reductions. When the patient is ready
27 to resume tapering, the amount and pace of the subsequent dose reductions may need to be
28 reassessed more frequently. Maintaining refers to circumstances in which there is no current plan
29 to continue dose reductions, instead the patient is expected to continue taking BZDs at a lower

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1 dose (i.e., a partial taper). The dose should be maintained at the reduced level achieved by the
2 partial taper; dose increases should be avoided unless absolutely necessary, such as in response
3 to severe withdrawal symptoms.²⁹ The harms of BZDs are dose-dependent. Maintaining at a
4 lower dose may be sufficient to reduce the risk of harm for a given patient.

5 Taper duration

6 Many existing guidance documents recommend a flexible approach to tapering, reducing the
7 dose at a rate dictated by the patient's ability to tolerate withdrawal symptoms and allowing the
8 process to take as long as the patient needs.^{23,29,33,56,59,61,68,69} In contrast, one review
9 recommended completing tapers within 6 months to prevent patients from becoming fixated on
10 the process.⁷⁰ This Guideline recommends engaging patients as partners, individualizing tapering
11 schedules to each patient's unique goals, needs, and preferences, and modifying as needed based
12 on their response to the taper.

13 Tapering Safety Concerns

14 Pharmaceutical manufacturing standards allow BZD strength to vary by +/- 15% between
15 tablets[1]. While this high variability is unlikely within a given lot, it is possible between
16 different lots, and even more likely between different manufacturers. This possible net 30%
17 variability is often overlooked and can be a significant effect for the susceptible patient. The
18 best practice is to stay with the same manufacturer throughout the taper and treat a lot number
19 change like a cut.

20 The recommendations in the sections above will have the practical result of making it difficult to
21 complete a patient taper utilizing only whole pills, given the available dosages for most BZDs.
22 Thus, pill cutting or finer methods of dose reduction will be required to complete many tapers.
23 We recommend against cutting pills to doses smaller than ¼ of a pill due to considerations of
24 patient safety. If patient needs lead to a taper protocol that requires doses smaller than ¼ of the
25 smallest dose of a given BZD (not uncommon), we term this a “microtaper”. There is little peer-
26 reviewed literature on microtapers, but there is a wealth of patient experience indicating that
27 they can be done in a safe, patient-led manner. There are two key methods to safely microtaper:

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1. By using an oral solution, such as one of the Intensol solutions available for most of the BZDs, along with a finely graduated syringe. Note that this method is only viable until the dose becomes so small that it induces handling problems, and it requires multi-step patient instruction and demonstration of competent use of a graduated syringe.

2. By using a compounded formulation. These can be made of any BZD, and they allow finer cuts than possible with non-compounded formulations. Diazepam, alprazolam, lorazepam and clonazepam are available as stability-tested compounded formulas.

We do not recommend other solutions due to the inherent risks and since most BZDs have minimal solubility in water.[2]

[1] Uddin, Md. Sahab & Mamun, Abdullah & Tasnu, Tanjuma & Asaduzzaman, Md. (2015). In-
Process and Finished Products Quality Control Tests for Pharmaceutical Tablets According to
Pharmacopoeias. *Journal of Chemical and Pharmaceutical Research*. 7. 180-185.

[2] Nokhodchi A, Shokri J, Barzegar-Jalali M, Ghafourian T. Prediction of benzodiazepines
solubility using different cosolvency models. *Farmaco*. 2002 Jul;57(7):555-7.

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Some of this may be redundant

Tapering Process Recommendation Statements

13. Prior to beginning a taper, clinicians should conduct a thorough medication and health review, with particular attention to other psychoactive medications and conditions that may be impacted during the taper (*Clinical consensus, Strong Recommendation*).

14. When determining the initial pace of the BZD taper, clinicians should generally begin with an initial test reduction of no more than 5-10% of the total daily dose to assess patient response. (See Table 1)(*Clinical consensus, Strong Recommendation*).

- a. Clinicians should consider current BZD dose and half-life, frequency and duration of BZD use, comorbidities, and patient response to any prior BZD tapering attempts (*Clinical consensus, Strong Recommendation*).

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b. The overall tapering strategy should be designed to minimize harms, considering the risk for withdrawal symptoms and the risk of harm related to continued BZD use (*Clinical consensus, Strong Recommendation*).

15. Clinicians can consider transitioning to a comparable dose of a longer-acting BZD for the taper for patients who experience accelerating withdrawal symptoms during the day when using short-acting BZDs (interdose withdrawal) (*Clinical consensus, Conditional Recommendation*).

16. Tapering strategies should be tailored to the individual patient and adjusted based on the patient's response (*Clinical consensus, Strong Recommendation*).

a. Patients undergoing tapering should be evaluated for signs and symptoms related to the BZD taper with each dose reduction (*Clinical consensus, Strong Recommendation*).

b. For patients experiencing significant symptoms or functional decline related to the BZD taper, clinicians should consider pausing or slowing the pace of the taper and/or making smaller dose reductions (*Clinical consensus, Strong Recommendation*).

17. The BZD tapering process can be more difficult for patients as the total daily dose of BZD decreases. Clinicians should proactively consider smaller dose reductions and/or slowing the pace of dose reductions as the taper progresses (hyperbolic tapering) (*Clinical consensus, Strong Recommendation*).

17-a. **Clinicians should consider microtapering as the patient's needs dictate.**

18. If a patient is unable to tolerate further BZD dose reductions, the clinicians can consider – in partnership with the patient and other members of the care team – maintaining the patient on the lower BZD dose with regular risk benefit assessment consistent with [Recommendation #1](#) (*Clinical consensus, Conditional Recommendation*).

Adjunctive Interventions During the Tapering Process

Adjunctive Psychosocial Interventions

Gradual tapering supported by adjunctive psychosocial interventions has been shown to be more effective than gradual tapering alone.⁷¹ Psychosocial interventions encompass evidence-based behavioral interventions (e.g., cognitive behavioral therapy [CBT]), lifestyle factors (e.g., sleep hygiene), complementary health approaches (e.g., mindfulness), and peer specialist services if

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1 available. See [Appendix J](#) for adjunctive psychosocial interventions. The CGC recommends that
2 adjunctive psychosocial interventions be offered to patients tapering BZDs.

3 A Cochrane review by Darker et al (2015) found moderate quality evidence that patients were
4 more likely to successfully discontinue BZDs at four weeks and three months post-treatment
5 when they received CBT during the tapering process.⁷² While CBT has the most evidence, other
6 behavioral interventions that have been studied include motivational interviewing (MI), direct-
7 to-consumer educational interventions (e.g., letters and booklets mailed to patients), relaxation
8 studies, and counseling via telemedicine.^{48,72}

9 **A recent meta-analysis showed that the rate of BZD discontinuation was significantly higher at 6**
10 **and 12 months among patients who received a brief intervention – such as short consultation**
11 **with the prescriber or a letter from the prescriber recommending discontinuation - delivered in**
12 **primary care compared to those receiving usual care.⁷³**

13 Sleep hygiene interventions may also help support a successful taper. Sleep hygiene refers to the
14 sleep environment and behaviors around sleep—such as adopting a nightly routine, following a
15 sleep schedule, avoiding caffeine and alcohol near bedtime, and avoiding napping during the
16 day—that are conducive to optimizing restorative sleep.^{74,75} Further, incorporating sleep hygiene
17 education and psychosocial support during BZD tapering has been shown to lead to short-term
18 reductions in BZD use as well as long-term discontinuation in older adults.⁷⁴

19 Peer specialist services are another resource to support patients during a BZD taper. Peer
20 specialists are individuals who have lived experience with BZD **physiological** dependence and
21 are trained to provide **support and coaching** services that promote recovery, foster resilience, and
22 build on patients’ strengths as they work through the BZD tapering process.⁷⁶ Peer specialist
23 services can be delivered one-on-one or in a group setting, as well as either in-person or
24 virtually. **Peer specialists who are trained in addiction are commonly available, but it is**
25 **recommended that they be trained and preferably certified with respect to BZDs, since BZD-**
26 **related challenges are distinctly different (e.g., hardly ever addiction). The BZD Action**
27 **Workgroup of the Colorado Consortium for Prescription Drug Abuse Prevention has an active**
28 **training and certification program: [**Commented \[144\]:** SW](https://corxconsortium.org/projects/benzo-peer-</p></div><div data-bbox=)**

This belongs in the text above. It is not performed as an adjunct to tapering; rather these are means to initiate patient interest and engagement to start tapering.

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[support/#:~:text=This%2012%2Dhour%20training%20course.how%20to%20support%20the%2](#)

Individual

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The most important considerations when determining which strategies to incorporate are an individual patient's treatment preferences, their response to the BZD tapering process, and their access to adjunctive services.

Adjunctive Pharmacological Interventions

There is considerable disagreement in the literature on the utility of pharmacological interventions as an adjunct to tapering. Existing clinical guidelines that endorse adjunctive medications do not offer clear guidance on implementation (e.g., dosing, duration).⁶⁰ In a Cochrane review, Baandrup et al (2018) were unable to draw conclusions on the effectiveness and safety of various medications in facilitating BZD discontinuation because the quality of the evidence was low or very low and with high risk of bias.⁷⁷

The CGC acknowledges that some patients might benefit from adjunctive medications. However, given the lack of evidence, the CGC recommends first pausing or slowing the tapering schedule per [Recommendation #9](#), [#10](#), and [#13](#), and incorporating adjunctive psychosocial interventions (notably CBT) per [Recommendation #12](#) if a patient experiences challenging withdrawal symptoms. If pausing or slowing the taper has not been successful, a decision may be made—through a shared decision-making approach—to explore adjunctive pharmacological interventions. clinicians should first consider whether patients' symptoms are most likely primarily attributable to BZD withdrawal or an underlying condition. See [Appendix K](#) for adjunctive pharmacological interventions. **In general, if the symptoms did not resolve after pausing the taper they are unlikely to be related to withdrawal.** This distinction is key to the clinical approach: while evidence for medications to treat BZD withdrawal symptoms is lacking, treating symptoms of underlying conditions can be effective (e.g., SSRIs for general anxiety disorder). [Appendix G](#) provides a list of guidelines on the management of conditions for which BZD are commonly prescribed.

Commented [146]: Many times this is not true. Discontinuation symptoms can be protracted for months or years. It is hypothesized that this is due to actual injury to the receptors: BIND

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A few small studies suggested the anticonvulsant carbamazepine might have limited effectiveness as an adjunct during the BZD tapering process to reduce anxiety and withdrawal symptoms.⁷⁷⁻⁸⁰ **However, there is no robust evidence that carbamazepine facilitates**

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discontinuation and, thus, it is not recommended as an adjunct medication for withdrawal

management. The committee noted that gabapentin and especially pregabalin have potential for non-medical use and therefore, while they may be useful in certain circumstances, should not be considered prior to other potential adjunctive medications.

Commented [149]: Although they are smaller studies, carbamazepine and pregabalin are the only adjunctives that have evidence of lessening WD symptoms. It is a mistake to not recommend them both.

Commented [150]: and other adverse effects

TAdjunctive Interventions Recommendation Statements

19. Adjunctive psychosocial interventions should be offered when tapering BZD (*Clinical consensus, Strong Recommendation*).

e. Patients undergoing BZD tapering should be offered, or referred for, behavioral interventions such as CBT (*Very Low Certainty, Strong Recommendation*).

f. Clinicians should educate patients on lifestyle factors that could support BZD tapering (e.g., sleep hygiene, physical activity as appropriate to ability) (*Clinical consensus, Strong Recommendation*).

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g. Clinicians can consider recommending complementary health approaches such as mindfulness practices (*Clinical consensus, Conditional Recommendation*).

h. Clinicians can consider referring patients for peer specialist services to provide support during the taper (*Clinical consensus, Conditional Recommendation*).

14. For patients experiencing symptoms that significantly interfere with the taper (e.g., sleep difficulty, anxiety symptoms), clinicians should first consider pausing or slowing the pace of the taper (*Clinical consensus, Strong Recommendation*).

a. Clinicians can also consider adjunctive medications to address symptoms interfering with the taper (*Clinical consensus, Conditional Recommendation*).

BZD Withdrawal Management/Tapering with very long-acting medications

BZD Withdrawal Management

BZD withdrawal symptoms can range from anxiety and sleep problems to seizures and delirium (see Table 2).^{23,56,61} It is often difficult to distinguish between withdrawal symptoms and recurrence or rebound of symptoms for which the BZD had been prescribed. The most commonly experienced symptoms of withdrawal – such as anxiety, insomnia and irritability – are often indistinguishable from the previously experienced symptoms associated with the underlying condition.⁸¹ As discussed above, the pace of BZD taper should seek to minimize

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- 1 withdrawal symptoms and clinicians should treat underlying conditions with evidence-based
- 2 non-BZD therapies.

3 **Table 2. BZD Withdrawal Signs and Symptoms**^{23,56,66}

Psychological Signs and Symptoms	Physical Signs and Symptoms
Cognitive impairment (e.g., poor memory, reduced concentration)	Chest pain
Confusion, delirium*	Palpitations
Depersonalization, derealization	Increased heart rate, tachycardia
Depression, dysphoria	Elevated blood pressure
Increased anxiety	Headaches
Irritability, agitation	Dysesthesia, kinesthetic disorders, Muscle twitching, jerks, fasciculations
Nervousness	Muscle pain (e.g., tension, weakness, spasms)
Panic attacks	Nausea/vomiting
Perceptual disturbance	Diarrhea
Psychosis symptoms, paranoia*	Seizures*
Restlessness	Tremors
Sleep disturbance (i.e., insomnia, nightmares, hypersomnia)	Sweating, night sweats
	Tingling, numbness, altered sensation
	Sensory hypersensitivity (light, sound, taste, smell)

Commented [153]: Over 140 symptoms of BZD withdrawal have been identified by a variety of sources, yet you have listed 49 here. Are these the most common, most severe, most indicative of withdrawal? If you can't answer at least one of these with an evidence-based "yes", you should note these limitations of this list.

- 4 * Typically associated with abrupt discontinuation of high doses of BZDs
- 5 While most patients can successfully taper from BZD in an outpatient setting, when a clinical
- 6 scenario indicates the need for active medical management of acute BZD withdrawal, the
- 7 following recommendations should be taken into consideration. As with any sedative-hypnotic
- 8 withdrawal, seizure and delirium are two of the more serious adverse events that can occur.
- 9 Clinicians should prioritize assessment and monitoring for seizure risk during BZD withdrawal
- 10 management.
- 11 The CGC discussed strategies for managing seizure risk and noted that clinicians from different
- 12 medical sub-specialties differ in how they manage seizure risk. For patients experiencing BZD
- 13 withdrawal who have a history of withdrawal related seizures addiction medicine specialists

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1 commonly use pharmacotherapies (e.g., levetiracetam, carbamazepine) to prevent withdrawal
2 seizures. In these instances, clinicians are particularly concerned about the phenomenon of
3 increasing severity of seizures with repeated episodes of withdrawal (i.e., kindling).
4 Neurologists, however, generally do not prophylactically treat seizure risk. As such, the
5 committee did not come to consensus on management of seizure risk in patients undergoing BZD
6 withdrawal management. Seizures should be managed according to current evidence-based
7 recommendations standards of care.

8 With regard to the approach to tapering, symptom-triggered tapering – where medication is
9 administered in response to withdrawal symptoms as opposed to on a specific schedule – has
10 been demonstrated to be as effective as fixed tapering approaches, in terms of BZD withdrawal
11 symptoms, duration of inpatient treatment, and BZD use one month following discharge.⁸² While
12 the authors of that study concluded that symptom-triggered approaches could not be favored over
13 fixed approaches based on the data,⁸² symptom-triggered approach are likely to be experienced
14 as more patient-centered, and may yield a more positive experience for the patient.

15 *Monitoring During Withdrawal Management*

16 During withdrawal management, regular patient monitoring is critical. It is essential not only to
17 ensure the safety and efficacy of the process but also to determine BZD dosage reductions. What
18 constitutes regular monitoring will depend upon the treatment setting. Inpatient or other
19 medically managed settings where withdrawal management occurs typically have protocols in
20 place for monitoring withdrawal. Protocols, while including useful monitoring features, often
21 also include fixed tapering regimens which in the case of BZD tapering are inappropriate and
22 should be replaced with language that reflects a flexible approach. The CGC noted that the most
23 important items to monitor are vital signs, and patient-reported withdrawal symptoms, symptom
24 severity, and functional changes.

25 Scales designed for monitoring BZD withdrawal symptoms exist, including the Clinical Institute
26 Withdrawal Assessment Scale – Benzodiazepines (CIWA-B) ⁸³ and the BZD Withdrawal
27 Symptom Questionnaire (BWSQ).⁸⁴ However, both these scales were developed using small

Commented [154]: First-line medications for seizure are anticonvulsant agents such as valproic acid, lamotrigine, or levetiracetam and not BZDs. This is not controversial and should be mentioned.

Commented [155]: Delete in favor of proposed substitute language, section called "Tapering Schedules" near the bottom of that section.

Commented [156]: SW

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1 numbers of patients, little to no evidence of validation was found for either, and they are not
2 frequently used in clinical practice.² Inpatient Withdrawal Management

3 As discussed in the Level of Care Considerations section, inpatient BZD withdrawal
4 management should be considered when the patient is at imminent risk for significant harm from
5 continued BZD use, the patient has a comorbid physical or mental health condition that makes an
6 outpatient BZD taper unsafe, or the patient is experiencing or imminently expected to experience
7 severe withdrawal. More often than not, the taper that is initiated in the inpatient setting must be
8 completed on an outpatient basis. It is inappropriate to have a rapid rate of the taper simply
9 because the allowed duration of stay is limited. To rush the taper risks marked acceleration of
10 symptoms and functional decline, may precipitate failure and BZD reinstatement, and lead to
11 patient dissatisfaction and loss of engagement.

Commented [157]: SW

Commented [158R157]: ++Key topic++

12 |As with any tapering plan, BZD tapering in an inpatient setting should focus on management and
13 minimization of withdrawal symptoms, as well as supportive care and monitoring/management
14 of comorbid conditions if appropriate.

15 *Tapering with Very Long-Acting Agents*

16 Some limited evidence exists for the use of very long-acting agents that modify responses to
17 gamma-aminobutyric acid (GABA) (e.g., phenobarbital, chlordiazepoxide) to accomplish a BZD
18 taper.⁸⁵ Phenobarbital and chlordiazepoxide both have very long half-lives (80-120 hours and 24-
19 95 hours respectively), resulting in a gradual taper of effects after the medication is discontinued.
20 The committee emphasized that this approach should be limited to situations where patient safety
21 is a concern. This approach also may be effective for patients with SUD who have been unable to
22 accomplish a gradual taper in an outpatient setting. Additionally, as described above, in some
23 instances the patient may request this type of approach, due to the desire to quickly discontinue
24 BZD use.⁸⁶

² The committee noted that some facilities utilize the Clinical Institute Withdrawal Assessment of Alcohol Scale, Revised (CIWA-Ar) due to pragmatic reasons (e.g., it may already be incorporated in the electronic health record and staff may be more familiar with it). However, they noted that it is not indicated for BZD withdrawal management and is therefore not recommended for this purpose.

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1 Phenobarbital-based protocols for tapering have been found to be safe and effective based on two
2 retrospective studies cumulatively evaluating outcomes of over 650 patients.^{87 85} In a
3 retrospective case series of 310 patients treated with a 3-day phenobarbital protocol, while 27%
4 of the patients experienced sedation, none experienced falls or seizures, and only 1%
5 experienced delirium.⁸⁷ A more recent chart review study of patients undergoing a 6-day
6 phenobarbital protocol found that no patients developed seizures, falls, or sedation—important,
7 though this does not take into account that this very rapid taper could prompt severe symptom
8 acceleration, functional decline, rapid return to BZD use in the context of a tenuous early
9 recovery.⁸⁵ While both studies had noted limitations (retrospective studies with no comparison
10 group or long-term follow up data), they suggest phenobarbital-based protocols are a reasonable
11 approach to BZD taper for selected patients, though it is very likely tapering will need to proceed
12 on a much slower pace with the goal of completing it on an outpatient basis.

Commented [159]: Note that one of the study protocols included an ill-defined needs-based co-prescription of BZD with phenobarbital. There is insufficient evidence to include phenobarbital cross-over as a recommendation on par with direct BZD taper.

13 Tapering with very long-acting medications should generally be conducted in a medically
14 managed residential or inpatient setting but may sometimes be completed in outpatient settings
15 by specialist physicians (e.g., addiction medicine) with appropriate experience.

Commented [160]: Disagree: A slow taper with a long-acting agent does not really present any greater (primarily different) challenge compared to short-acting agents. It just takes a clinician willing to listen to the patient, be willing to use BZD dry cutting/liquid titration methods, have and encourage patients. I do agree in the context of addiction, an addictionist is best to manage this, as long as the addictionist recognizes that and when a slow taper is indicated and is willing to do so. Understandably, addictionists want their patients off of addiction-prone substances expeditiously; however, most of the time that is not realistic in the case of BZDs. Addictionists may not be aware of the real reasons patients leave their practices – which may be too rapid a withdrawal process – and rather present the inappropriate attitude/approach: “come back when you’re ready”.

Discharge planning from inpatient care

16 Discharge planning is critical following a BZD taper in an inpatient or medically managed
17 residential setting. In cases where the taper is not completed during the inpatient or residential
18 stay, clinicians should ensure that the patient has access to any medications, including BZDs that
19 are needed for continuing the tapering process. Discharge planning should include an outpatient
20 follow-up appointment, ideally within a week by means of a seamless handoff that includes
21 diagnosis, patient status, and treatment approaches successful and unsuccessful.

Commented [161R160]: ++Key topic++

23 During the follow up appointment, the clinician should assess the patient for ongoing signs and
24 symptoms related to the reduction or discontinuation of BZD, including recurrence, rebound, and
25 residual withdrawal symptoms.

Commented [162]: An individual should rarely be discharged from outpatient care. Those individuals who are not able to complete BZD tapering and those who have completed BZD tapering but are still symptomatic should continue to be seen, supported – and other trials of options considered.

Other pharmacological interventions

27 Flumazenil, a GABA-A receptor antagonist and partial agonist, is effective in reversing central
28 nervous system and respiratory depression due to BZD overdose. Recent RCTs have suggested

Commented [163]: Why is this section placed in position of the draft text when there is a section earlier that addresses adjunctives. Please see proposed recommendation above.

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1 that low-dose flumazenil may be effective for facilitating BZD discontinuation, especially among
2 patients taking high doses of BZD.^{88,89} Despite these findings, the committee had concerns about
3 the high potential for refractory seizures, dysrhythmias, and other side effects when using
4 flumazenil.⁹⁰ Therefore, the committee agreed that flumazenil should not be utilized for the
5 purposes of BZD tapering. Similarly, very limited evidence was found for anesthetics such as
6 ketamine for facilitating BZD withdrawal.⁹¹ Both ketamine and propofol have significant risk of
7 increased respiratory depression when combined with BZD, and there is no evidence supporting
8 their use on a routine basis. Therefore, the committee agreed that the risks of ketamine as well as
9 propofol in this population outweigh potential benefits and could not be recommended.

Recommendations for BZD Withdrawal Management

11 41-40. Patients undergoing BZD withdrawal management in an inpatient or other medically
12 managed setting should be:

- 13 a. Monitored for signs and symptoms of BZD withdrawal regularly using vital signs and
14 a standardized assessment tool (*Clinical consensus, Strong Recommendation*); and
- 15 b. Assessed for seizure risk and managed as appropriate (*Clinical consensus, Strong*
16 *Recommendation*).

17 42-41. Tapering with very long-acting agents (e.g., with phenobarbital, chlordiazepoxide) should
18 typically be conducted in an inpatient or medically managed residential setting (e.g., ASAM
19 Criteria Level 3.7). (*Clinical consensus, Conditional Recommendation*).

- 20 a. Tapering with very long-acting agents may also be conducted in outpatient settings
21 with extended nurse monitoring (e.g., ASAM Criteria Level 2.7) by, or in
22 consultation with, a clinician experienced in the use of these medications for BZD
23 tapering. (*Clinical consensus, Conditional Recommendation*).

24 43-42. Following a physiological taper, discharge planning should include an outpatient follow-
25 up appointment, ideally, within 7 days (*Clinical consensus, Strong Recommendation*).

26 44-43. The follow up clinician should:

- 27 a. Assess the patient for ongoing signs or symptoms related to discontinuation of BZD,
28 including re-emergence of symptoms for which the BZD was originally prescribed
29 (*Clinical consensus, Strong Recommendation*); and

Commented [164]: I can't imagine a reason for use of propofol on a chronic basis! Both ketamine and propofol certainly can be used for procedures in individuals on BZDs in carefully selected cases.

Commented [165]: See also comments, suggested changes in the section "Summary of Recommendations"

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b. Consider medications and/or behavioral interventions to address ongoing signs or symptoms related to discontinuation of BZD (*Clinical consensus, Conditional Recommendation*).

45.44. Due to risks for refractory seizure, dysrhythmias, and other side effects, for the purpose of BZD tapering, clinicians should avoid rapid BZD reversal agents such as flumazenil (*Clinical consensus, Strong Recommendation*).

46.45. For the purpose of BZD tapering, clinicians should generally avoid general anesthetics such as propofol or ketamine (*Clinical consensus, Conditional Recommendation*).

Population-Specific Considerations

Patients Co-Prescribed BZD and Opioids

Although not recommended, patients with chronic pain are commonly prescribed BZDs and opioid medication for pain management concurrently.^{92,93} Patients prescribed this combination of medications tend to be on relatively higher doses of opioids and they report higher levels of pain and lower self-efficacy for pain management.⁹⁴ They also have greater healthcare utilization, especially emergency department visits.⁹⁴ Finally, these patients are at greater risk for nonmedical substance use and comorbid psychiatric conditions, compared to patients who never used BZD.⁹⁴

For patients prescribed both opioids and BZD, these medications may be prescribed by different providers.⁹⁵ When the risks associated with the combined use of these medications outweigh the benefits for the patient the clinician should engage in shared decision making with the patient to determine which medication to taper. Prior to initiating a BZD taper, clinicians should attempt to coordinate care with any other prescribers. The committee noted that it may be challenging to reach other clinicians. Clinicians can consider coordinating with the payer or pharmacy as they may have alternative mechanisms for communicating with other clinicians involved in the patient's care.

Patients prescribed both opioids and BZD comprise a high-risk population. In particular, these persons are at greater risk for respiratory depression, overdose, and overdose death. Using the CDC Wide-Ranging Online Data for Epidemiologic Research (WONDER) database [Tori et al] found that BZD involvement in all opioid overdose deaths had more than doubled from 1999 to

Commented [166]: Please note that the FDA prescribing information for all BZDs says: Concomitant use of benzodiazepine s and opioids may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing for use in patients for whom alternative treatment options are inadequate. Limit dosages and durations to the minimum required.

Commented [167]: Reference: Tori ME, Larochelle MR, Naimi TS. Alcohol or benzodiazepine co-involvement in opioid overdose deaths in the United States 1999-2017. *JAMA Netw Open.* 2020;3(4):e202361.

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1 2017 and were involved in a third of prescription opioid overdose deaths in 2017. Co-prescribing
2 should be avoided by managing the underlying conditions with evidence-based alternative
3 therapies where possible. Clinicians are advised to become familiar with opioid prescribing
4 guidelines.

5 The committee recommended that the risks and benefits of continued BZD prescribing should be
6 reviewed frequently, at least every 3 months. In cases where the patient has other risk factors for
7 adverse events, the risk benefit assessment should be conducted more frequently. As discussed in
8 [Recommendation #1a](#) at a minimum risks and benefits should be assessed with each new
9 prescription or prescription refill authorization. The Risk Index for Overdose or Serious Opioid-
10 induced Respiratory Depression (RIOSOIRD) is a tool that can be utilized for this purpose (See
11 Box).^{96,97}

12 [START BOX]

The Risk Index for Overdose or Serious Opioid-induced Respiratory Depression (RIOSOIRD)

15 The RIOSOIRD is a screening instrument designed to provide clinically practical guidance for
16 safer opioid prescribing. It was originally developed using administrative health care data from a
17 large sample of patients served by the Veterans Health Administration and validated using a
18 health plan claims dataset with data from over 115 million individuals.^{96,97} The risk assessment
19 looks at co-occurring SUD, mental health diagnoses, and biomedical conditions, as well as the
20 type and formulation of opioids used, and co-prescribing of BZD and other medications. The
21 RIOSOIRD showed strong predictive accuracy in both data sets.

22 [END BOX]

23 It is especially important to mitigate risk among patients who are co-prescribed BZD and
24 opioids. As the combined use of these medications increases the risk for overdose,^{15,16} opioid
25 overdose reversal medication (e.g., naloxone which can also reverse BZD toxicity) should be
26 provided or prescribed. In addition, the committee recommends that clinicians use the lowest
27 effective dose of BZD and follow the CDC guidelines for minimizing risks related to opioid
28 prescribing.¹⁸ This includes minimizing opioid doses where possible and optimizing non-opioid
29 interventions for managing pain or other indications for which the opioid is being prescribed.

Commented [168]: Reference:
Solhi H, Mostafazadeh B, Vishteh HRK, et al. Benefit
effect of naloxone in benzodiazepines intoxication:
findings of a preliminary study. Hum Exp Toxicol.
2011;30(7):535-40.

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1 This may include non-pharmacological treatments for pain management, including exercise,
2 mindfulness-based interventions, and CBT.¹⁸

3 *Recommendations for Patients Co-Prescribed BZD and Opioids*

4 ~~47-46.~~ For patients who are co-prescribed BZD and opioids: Prior to initiating a BZD taper, the
5 clinician should seek to coordinate care with any other clinician(s) who may also be
6 prescribing BZD or opioids (*Clinical consensus, Strong Recommendation*).

7 ~~48-47.~~ Because of the increased risk for respiratory depression with concurrent use of BZD and
8 opioids, the prescribing clinician should assess the risks and benefits of continued BZD
9 prescribing at least every 3 months (*Clinical consensus, Strong Recommendation*).

10 a. Risk benefit assessments should be conducted more often when the patient has other
11 risk factors for adverse events (*Clinical consensus, Strong Recommendation*).

12 ~~49-48.~~ Clinicians should provide or prescribe naloxone for all patients co-prescribed BZD and
13 opioids (*Clinical consensus, Strong Recommendation*).

14 ~~50-49.~~ Clinicians should consider additional strategies for mitigating risk, including using lowest
15 effective doses of BZD and opioid medications, and optimizing non-opioid
16 interventions (*Clinical consensus, Strong Recommendation*).

17

18 ***Patients with BZD Use Disorder or Other SUD***

19 Some patients with BZD use disorder may be able to successfully taper BZD in an outpatient
20 setting. However, some patients, such as those taking very high doses of BZD, and/or who are
21 using other substances may require a more intensive level of care. For example, patients with
22 SUDs at high risk for medical instability or severe withdrawal, or with a history of withdrawal-
23 related seizure, should be managed in a medically managed residential or inpatient setting
24 because of the available 24-hour nurse monitoring and medical care to support stabilization and
25 withdrawal management.⁹⁸ The ASAM Criteria provides guidance on determining an appropriate
26 level of care for patients with SUD (see Box).⁹⁸

27 [START BOX]

28 ***The ASAM Criteria – Levels of Care***

Commented [169]: See also comments, suggested changes in the section "Summary of Recommendations"

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1 *First published in 1991, The ASAM Criteria* offers an evidence-based and standardized way of
2 determining the appropriate level of SUD services based on an individual’s needs and
3 circumstances. A multidimensional assessment is used to determine the most appropriate level of
4 care based on intoxication and withdrawal-related risks; need for addiction medications; co-
5 morbid biomedical, psychiatric and cognitive conditions; substance-use related risks; and
6 recovery environment considerations.

7 The ASAM Criteria describes SUD treatment as a continuum marked by four broad levels of
8 care – outpatient, intensive outpatient, residential, and inpatient. Decimal number express
9 gradations of intensity and types of care provided. Level x.7 programs are Medically managed
10 programs (bolded below) provide withdrawal management, including management of BZD
11 withdrawal, and biomedical services along with integrated psychosocial services.

- 12 ● Level 1: Outpatient Treatment
 - 13 ○ Level 1.5: Outpatient Therapy
 - 14 ○ **Level 1.7: Medically Managed Outpatient**
- 15 ● Level 2: Intensive Outpatient/Hi-Intensity Outpatient Treatment
 - 16 ○ Level 2.1: Intensive Outpatient
 - 17 ○ Level 2.5: High-Intensity Outpatient
 - 18 ○ **Level 2.7: Medically Managed Intensive Outpatient**
- 19 ● Level 3: Residential Treatment
 - 20 ○ Level 3.1: Clinically Managed Low-Intensity Residential
 - 21 ○ Level 3.5: Clinically Managed High-Intensity Residential
 - 22 ○ **Level 3.7: Medically Managed Residential**
 - 23 ○ **Level 3.7 BIO: Biomedically Enhanced Medically Managed Residential**
- 24 ● **Level 4: Medically Managed Inpatient Treatment**

25 For more information, see <https://www.asam.org/asam-criteria>.

26 [END BOX]

27 *Assessing Risks and Benefits of Continued BZD Prescribing*

28 Patients who use BZD and have concurrent alcohol use disorder (AUD) or opioid use disorder
29 (OUD) are at particularly high risk of morbidity and mortality because of the cross-tolerance and

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1 combined respiratory depressant effects of these substances as well as kindling, and complex
2 discontinuation challenges.^{17,40} The committee agreed that the risk/benefit assessment of
3 continued BZD prescribing should be reviewed at least monthly for patients with co-occurring
4 AUD or OUD. In patients with a history of other SUDs, BZD use should be reviewed frequently
5 as individuals with a SUD related to one substance have an increased prevalence of other SUDs
6 compared to those without a history of SUD.⁹⁹

7 Considerations for the BZD Taper in Patients with SUD

8 As with all patients, abrupt cessation of BZD is dangerous and gradual dose reduction
9 individualized based on the patient’s response is recommended.^{22,23} If more rapid tapering is
10 indicated, the taper approach using very long-acting agents (i.e. diazepam, chlordiazepoxide
11 clonazepam, or phenobarbital) described in the Withdrawal Management section can be
12 considered. Clinicians should consider a patient’s psychosocial situation and co-occurring
13 disorders when determining the appropriate timing of a BZD taper. Due to inherent complexities,
14 tapering BZDs simultaneously with discontinuing other addiction-prone substances is not
15 advised, excepting when poor oxygenation is found. Clinicians – preferably by team-based
16 decision-making – should carefully plan how to structure discontinuation, sequencing higher risk
17 substances first.

18 If BZD tapering is indicated, the underlying SUD should be managed concurrently with the
19 taper. For patients with OUD, medications for OUD should typically be initiated and stabilized
20 prior to initiating a BZD taper and the dose of OUD medication should be kept stable throughout
21 the BZD tapering process.^{100,101} Psychosocial interventions (e.g., cognitive behavioral therapy) to
22 treat the underlying SUD(s) should be provided in parallel with pharmacotherapy.¹⁰¹ As
23 emphasized in ASAM’s National Practice Guideline for the Treatment of OUD, “The use of
24 benzodiazepines and other sedative-hypnotics should not be a reason to withhold or suspend
25 treatment with methadone or buprenorphine. While the combined use of these medications
26 increases the risk of serious adverse effects, the harm caused by untreated opioid use disorder
27 can outweigh these risks.”¹⁰¹

28 Monitoring patients during and after BZD tapering is a key aspect of clinical management of
29 successful BZD discontinuation. Approaches to reduce return to BZD use include
30 ongoing treatment of underlying SUD and co-occurring physical and mental health conditions,

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1 recovery support services (e.g., peer support), and addressing environmental risk factors (e.g.,
2 housing instability, lack of a recovery supportive network). Patients should be referred to an
3 appropriate level of care for ongoing SUD treatment concurrent to BZD dose reduction or
4 discontinuation.¹⁰¹

5 Drug testing

6 While drug testing can be helpful to detect the use of substances, there are limitations to urine
7 immunoassays for BZDs due to limitations in specificity. They are generally not sensitive to
8 therapeutic doses of BZDs and the performance of the tests vary depending on the
9 manufacturer.¹⁰² For this reason, there is an increased risk of false negatives, and confirmatory
10 testing is often indicated. The interpretation of test results can be complicated by the presence of
11 BZD metabolites as some metabolites are themselves parent compounds.¹⁰³ The application and
12 frequency of drug testing should be determined by the patient's clinical needs and the treatment
13 setting. Multiple existing guidance emphasizes that drug test results should not be used
14 punitively, they should be used to engage the patient therapeutically and to inform the treatment
15 plan.^{56,68,101} Multiple existing guidance emphasizes that drug test results should not be used
16 punitively, they should be used to engage the patient therapeutically and to inform the treatment
17 plan.^{56,68,101}

18 Harm Reduction

19 In most areas of the country, it is common for heroin, cocaine, methamphetamine, and
20 counterfeit prescription drugs to be contaminated with fentanyl, presenting significant risks of
21 overdose. This risk is exacerbated by BZD use. All patients who may intentionally or
22 unintentionally use opioids should be educated about this risk and given or prescribed opioid
23 overdose reversal medication (e.g., naloxone). Patients should also be connected to local harm
24 reduction organizations for provision of drug checking or other safe use supplies (e.g., fentanyl
25 test strips, sterile syringes) as appropriate given their patterns of substance use.

26 Recommendations for Patients with BZD Use Disorder and/or Co-Occurring SUD

27 54-50. For patients with SUD, clinicians should consider using existing standards for level of
28 care recommendations such as *The ASAM Criteria (Clinical consensus, Strong*
29 *Recommendation)*.

Commented [170]: See also comments, suggested changes in the section "Summary of Recommendations"

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1 a. For patients with SUD who don't meet criteria for an outpatient taper, clinicians
2 should consider a residential or inpatient setting, but only as long as the criteria for an
3 inpatient stay are present (*Clinical consensus, Strong Recommendation*).

4 ~~52.51.~~ For patients with BZD use disorder, alcohol use disorder, or opioid use disorder:

5 Clinicians should at least monthly assess the risks and benefits of continued BZD
6 prescribing, while encouraging BZD tapering as well evidence-based recovery for the other
7 addiction(s) if present (*Clinical consensus, Strong Recommendation*).

8 ~~53.52.~~ For patients with other comorbid addictions (e.g., stimulant use disorder, cannabis use
9 disorder, behavioral addictions): Clinicians should consider more frequent assessments of the
10 risks and benefits of continued BZD prescribing compared to the general guidance
11 ([Recommendation #1](#)). (*Clinical consensus, Strong Recommendation*).

12 ~~54.53.~~ When tapering BZD in a patient with SUD, the underlying SUD should be managed
13 concurrently with the BZD taper (*Clinical consensus, Strong Recommendation*).

14 ~~55.54.~~ Any medications for SUD treatment, including buprenorphine and methadone, should be
15 continued during the BZD taper (*Clinical consensus, Strong Recommendation*).

16 ~~56.55.~~ Prior to, during, and following the BZD taper, clinicians should continue to monitor and
17 treat underlying SUD or refer the patient to an appropriate level of care for continuing care
18 (*Clinical consensus, Strong Recommendation*).

19 ~~57.56.~~ Clinicians can consider using toxicology testing to support the risk/benefit assessment
20 (*Clinical consensus, Strong Recommendation*).

21 ~~58.57.~~ Clinicians should provide or refer for harm reduction services, which may include but are
22 not limited to:

23 a. Provision of naloxone and related training (*Clinical consensus, Strong*
24 *Recommendation*); and

25 b. Provision of drug checking or other safe use supplies (e.g., fentanyl test strips,
26 xylazine test strips, sterile syringes) (*Clinical consensus, Conditional*
27 *Recommendation*).

Patients with Psychiatric Disorders

28 Many patients with psychiatric conditions are able to taper from BZDs in outpatient settings, but
29 some may require a more intensive level of care. BZD tapering may exacerbate or cause
30 recurrence of psychiatric symptoms, which may warrant more intensive medical oversight.^{23,104}
31

Commented [171]: Peculiar to see this as a separate section as most who are prescribed BZDs have a mental health challenge to begin with: typically some sort of anxiety state or trait, the primary exception being insomnia.

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1 Consideration should be given to any underlying psychiatric conditions, including treatment
2 history, prior to beginning a taper. Clinicians can consider using the Level of Care Utilization
3 Services Tool (LOCUS) for guidance determining the appropriate treatment setting for patients
4 with psychiatric conditions (see BOX).

5 [START BOX]

6 **Level of Care Utilization System – Level of Care**

7 *Developed in the 1990's by the American Association for Community Psychiatry (AAP), The*
8 *Level of Care Utilization System (LOCUS) offers an evidence-based, standardized, and organized*
9 *way for connecting adults with mental health services based on their individual needs and*
10 *circumstances. A multidimensional assessment is used to determine the most appropriate level of*
11 *care for an individual based on their risk of harm; functional status; medical, addictive, and*
12 *psychiatric co-morbidity; recovery environment; treatment and recovery history; and*
13 *engagement and recovery status. The LOCUS describes seven levels of care of different service*
14 *intensities, including:*

- 15 ● Level Zero: Basic Services: Universal Prevention and Health Maintenance
- 16 ● Level One: Recovery Maintenance and Health Management
- 17 ● Level Two: Low Intensity Community-based Services
- 18 ● Level Three: High Intensity Community-based Services
- 19 ● Level Four: Medically Monitored Non-residential Services
- 20 ● Level Five: Medically Monitored Residential Services
- 21 ● Level Six: Medically Managed Residential Services

22 For more information, see the LOCUS and Toward a National Standard for Service Intensity
23 Assessment and Planning for Mental Health Care white paper .^{105,106}

24 [END BOX]

25 Patients who have used BZDs for a long time may be reluctant to taper this medication due to
26 fear of adverse effects of discontinuation.^{30,107,108} As BZD tapering can lead to recurrence or
27 rebound mental health symptoms (e.g., anxiety, insomnia), clinicians should consider optimizing
28 evidence-based treatments for any co-occurring mental health conditions prior to initiating a

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1 BZD taper.^{109,110} Non-BZD first-line therapies such as SSRIs, cognitive behavioral therapy
2 (CBT), or other evidence based interventions may be appropriate alternatives to BZD for many
3 patients. However, clinicians should use additional medications with caution, as patients –
4 especially those with known BZD withdrawal difficulties (protracted withdrawal or BIND) may
5 have adverse effects to other medications and experience severe withdrawal consequences to
6 those other agents as well (see [Appendix J](#)).¹¹¹⁻¹¹³

7 Clinicians should educate patients regarding potential rebound psychiatric symptoms and how
8 they will be managed and offer or refer for appropriate mental health services. As discussed
9 earlier, providing behavioral interventions during the BZD taper is associated with successful
10 tapering of BZD.¹¹¹⁻¹¹³

Patients with PTSD or TBI

11 The Department of Veterans Affairs (VA) recommends that BZDs be avoided if a patient has
12 symptoms of PTSD and provides guidance on alternative treatments for management of anxiety
13 and insomnia in these patients.¹¹⁴ BZDs are ineffective for the treatment of PTSD; they do not
14 reduce the core symptoms of PTSD or improve PTSD-related sleep dysfunction^{115,116}. BZD use
15 is associated with increased risk of substance use, depression, aggression, increased PTSD
16 severity, and decreased efficacy of trauma-focused psychotherapy.¹¹⁷ When tapering BZD in a
17 patient with PTSD it is important to consider that withdrawal of BZDs can worsen existing
18 PTSD symptoms (e.g., increased anxiety, rage, increased nightmares, intrusive thoughts, hyper-
19 alertness). The committee noted that clinicians can consider consultation with a psychiatric
20 specialist to develop a tapering strategy that minimizes these risks.

Management of sleep disturbance in patients with psychiatric conditions

22 Sleep disturbance is a common symptom during a BZD taper,²³ which may contribute to
23 symptom exacerbation of underlying mood or psychotic disorders.^{118,119} The committee
24 recommends that sleep be monitored closely in these individuals. If sleep disturbance occurs, the
25 clinician should pause the taper and perhaps maintain BZD dosage at a tolerable level if
26 symptoms don't readily resolve. In addition to pausing the taper, clinicians can provide sleep
27 hygiene information and provide or refer the patient for alternative treatment options such as
28

Commented [172]: Sleep challenges are not unique to those with psychiatric conditions. I would place this content in the section on symptoms.

Commented [173]: Too strong. For some patients, symptoms decrease but do not resolve.

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1 CBT-I^{113,120} Additionally, clinicians can consider consulting with a psychiatrist or sleep
2 medicine specialist to help guide treatment plans.

Recommendations for patients with co-occurring psychiatric disorders

4 ~~59-58.~~ For patients with psychiatric conditions, clinicians should consider using existing
5 standards for level of care recommendations such as The Level of Care Utilization System
6 (LOCUS) (*Clinical consensus, Strong Recommendation*).

7 ~~60-59.~~ Clinicians should consider optimizing evidence-based treatment for any psychiatric
8 disorder prior to the taper (*Clinical consensus, Strong Recommendation*).

9 ~~61-60.~~ For patients with PTSD, clinicians should strongly consider tapering BZD medications
10 (*Clinical consensus, Strong Recommendation*).

11 ~~62-61.~~ Clinicians should monitor sleep closely in patients with mood or psychotic disorders
12 undergoing a BZD taper, particularly for patients with bipolar disorder, as sleep disturbance
13 can trigger episodes of mania (*Clinical consensus, Strong Recommendation*).

14 a. Due to the risk for destabilization, if a patient experiences significant sleep
15 disturbance, clinicians should pause the taper and perhaps maintain BZD dosage at a
16 tolerable level if symptoms don't readily resolve (*Clinical consensus, Strong
17 Recommendation*).

18 i. Clinicians should consider providing or referring for behavioral interventions
19 (e.g., CBT, sleep hygiene education) (*Clinical consensus, Conditional
20 Recommendation*).

21 ii. Clinicians should consider consulting with a clinician with psychiatric
22 expertise. (*Clinical consensus, Conditional Recommendation*).

Considerations for Older Adults

25 While BZDs may offer short-term benefits, the adverse effects associated with their use—
26 including risk of falls and cognitive impairment—have generally been shown to outweigh the
27 marginal benefits in adults 65 years or older.³⁶ Chronic BZD use is also a significant concern for
28 older adults given that they are likely to be prescribed multiple medications, increasing their risk
29 of morbidity and mortality from polypharmacy.^{121,122} For these reasons, the American Geriatrics
30 Society Beers Criteria recommends avoiding the use of both long- and short-acting BZDs in

Commented [174]: See also comments, suggested changes in the section "Summary of Recommendations"

Commented [175]: Too strong. For some patients, symptoms decrease but do not resolve.

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1 adults over 65 years of age.¹²³ The CGC recommends that clinicians make every effort to taper
2 BZD use in older adults—developing individualized tapering plans through shared decision-
3 making—unless there are compelling reasons for continuation. Clinicians should consider
4 alternative treatment options with more favorable safety profiles.

5 **Fragmented care** can be a barrier to effective BZD tapering because attitudes, knowledge, and
6 conflicting advice from a patient’s medical teams—including primary care, psychiatry,
7 neurology, and other specialty providers—and care partners can influence the BZD deprescribing
8 process.^{62,124,125} Further complicating the matter is that metabolic changes associated with aging
9 make older adults more sensitive to BZDs, increasing their risk of adverse events such as
10 cognitive impairment—particularly in the domains of memory, learning, attention, and
11 visuospatial ability.^{62,126,127} Tapering older adults—particularly those with cognitive
12 impairment—from long-term BZD use can be challenging. Direct educational interventions (e.g.,
13 brochures) can help engage older adults, including those with mild cognitive impairment, and
14 their care partners in shared decision-making around BZD tapering and discontinuation.¹²⁸ A
15 patient’s medical teams and care partners may be essential in shared decision-making between
16 the patient and provider regarding BZD tapering methods that consider the patient’s individual
17 needs. **Every older adult BZD user should be told about the risks and benefits of continued use,
18 informed of which of their current symptoms could be BZD-induced, and advised to taper off
19 BZDs. If they decline, they should be presented with this same information and advice
20 periodically.**

Commented [176]: Fragmented care is not unique to the elderly but of course is prevalent among all populations. Perhaps place this content elsewhere?

Commented [177]: ++Key topic++

21 *Transitioning to a Longer-Acting BZD for Tapering*

22 **Recommendation #8** states that clinicians can consider transitioning patients without
23 contraindications (e.g., liver dysfunction) to a comparable dose of a longer-acting BZD for the
24 taper. However, metabolic changes associated with aging—namely, reduced hepatic clearance—
25 may increase risk of adverse events and toxicity.¹²⁶ As a result, the clinician should be cautious
26 about transitioning older adults to longer-acting BZDs prior to tapering.

27 *Level of Care Considerations for Older Adults*

28 Older adults, especially those with any degree of cognitive impairment, are at increased risk for
29 poor outcomes in inpatient settings due to hospital-induced delirium and decompensation.¹²⁹ The

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1 CGC emphasizes that clinicians should attempt to taper BZDs in older adult patients in an
2 outpatient setting unless there is a specific indication for an inpatient setting. Tapering may need
3 to occur in a residential or inpatient setting if it would be unsafe to taper in an outpatient
4 setting—for example, because family members or the care team cannot manage the older adult in
5 their home environment. In these cases, a specialized inpatient unit for older adults is preferred if
6 available.

7 *Recommendation Statement for Older Adults*

8 63-62. Clinicians should taper BZD in most older adults unless there are compelling reasons for
9 continuation (*Clinical consensus, Strong Recommendation*).

10 *Considerations for Pregnancy and Breastfeeding Patients*

11 BZD use in pregnancy has been found to be associated with an increased risk for miscarriage,
12 preterm birth, and low birth weight, as well as an increased risk of the newborn requiring
13 admission to the neonatal intensive care unit.¹³⁰⁻¹³² However, antenatal exposure to BZDs is not
14 associated with major congenital malformations.^{130,133} Approximately 20% to 40% of neonates
15 who have been exposed to BZDs in utero during late pregnancy develop neonatal
16 withdrawal.^{134,135} with symptoms including irritability, increased sedation, abnormal muscle
17 tone, poor feeding, sleep problems, and mild respiratory distress.¹³⁶⁻¹³⁸ Floppy infant syndrome
18 (FIS)—which presents with hypotonia, lethargy, sucking difficulties, low Apgar score,
19 hypothermia, apnea, cyanosis, hyperbilirubinemia, and CNS depression—has also been observed
20 in newborns who have been exposed to BZDs in utero during the third trimester and may be a
21 result of BZD toxicity.^{139,140} Both neonatal BZD withdrawal and FIS typically present within the
22 first hours of life and continue for up to 14 days.¹³⁹

23 Although BZDs do not appear to pose a risk for fetal malformations, there are significant risks
24 for several adverse pregnancy outcomes outlined in a systematic review: miscarriage (pooled
25 odds ratio = 1.86), preterm birth (1.96), low birth weight (2.24), low Apgar score (2.19), neonatal
26 intensive care admission (2.61), and Small for Gestational Age (after adjusting for publication
27 bias). Untreated maternal anxiety and insomnia, of course, pose risks as well but should be
28 addressed with non-medication approaches preferentially. In general, existing clinical guidelines
29 recommend optimizing alternative therapeutic approaches but allow for the use of BZDs during
30 pregnancy to manage anxiety and poor sleep but advise caution with dosing, recommending that

Commented [178]: Reference:
Grigoriadis S, Graves L, Peer M, et al. Pregnancy and delivery outcomes following benzodiazepine exposure: a systematic review and meta-analysis. *Can J Psychiatry*. 2020;65(12), 821–34.

Commented [179R178]: See also:
Creeley CE, Denton LK. Use of prescribed psychotropics during pregnancy: a systematic review of pregnancy, neonatal, and childhood outcomes. *Brain Sci*. 2019 Sep 14;9(9):235.

Commented [180]: Reference 141

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1 BZDs be prescribed sparingly, at the lowest effective dose, for the shortest time possible
2 (preferably no more than 2-4 weeks), and with consideration of pharmacokinetic changes that
3 occur during pregnancy (see [Appendix L](#)).^{142,143} BZD tapering can be done safely in
4 pregnancy^{142,143}; however, the American College of Obstetricians and Gynecologists notes
5 that¹⁴¹:

6 [I]t is also critical to consider the risks of a taper for the pregnant individual and the fetus.
7 For example, if attempts to taper the benzodiazepine precipitate re-emergence of anxiety,
8 the benefits of continuation may outweigh the risks.

9 As such, the CGC advises clinicians to discuss the risks and benefits of BZD use and
10 discontinuation for the maternal–fetal dyad with pregnant patients, considering each patient’s
11 unique needs and engaging in shared decision-making to determine whether to taper. **Lorazepam**
12 is generally preferred in pregnancy and lactation due to lack of active metabolites and low
13 relative infant dose (RID). Referral to or consultation with specialists in reproductive psychiatry,
14 if available, may also be considered.

Commented [181]: Reference? I can't find one to support this.

15 *Breastfeeding*

16 In general, breastfeeding is not contraindicated in the presence of maternal BZD use.¹⁴⁴ The long
17 term-effects of BZD exposure are unknown, but evidence suggests that the amount of BZD
18 transferred into breast milk is low.^{145,146} Evidence has suggested that breastfeeding—while
19 unlikely to prevent NAS—can substantially delay the onset and reduce the severity of NAS,
20 decrease the need for pharmacologic treatment, and lead to shorter hospitalization stays
21 compared to formula-fed infants.¹⁴⁷ Further, breastfeeding has been shown to enhance parental
22 bonding, promote attachment, and is associated with a reduced rate of child removal.¹⁴⁸ Thus, the
23 CGC recommends that clinicians encourage breastfeeding to help reduce potential symptoms of
24 NAS in the infant.

25 *Recommendations for Pregnancy and Breastfeeding + Patients*

26 [64.63](#). When considering a BZD taper for pregnant patients, clinicians should weigh risks and
27 benefits for the maternal-fetal dyad (*Clinical consensus, Strong Recommendation*).

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65-64. Clinicians should monitor closely for psychiatric symptoms during the taper as these symptoms may evolve rapidly during the pregnancy and postpartum period and may require treatment (*Clinical consensus, Strong Recommendation*).

66-65. Clinicians can consider a referral to or consultation with a healthcare professional with expertise in reproductive psychiatry (*Clinical consensus, Conditional Recommendation*).

67-66. For infants with long-term BZD exposure *in utero*, clinicians should:

- a. Encourage breastfeeding, which can reduce neonatal withdrawal symptoms (*Clinical consensus, Strong Recommendation*); and
- b. Communicate with the infant's healthcare provider (with parental consent) regarding exposure to BZD (*Clinical consensus, Strong Recommendation*).

Commented [182]: Redundant – psychiatry referral consideration is to be done for all patients and not only those pregnant.

Commented [183R182]: Also there is no mention of referral to a perinatologist ...

Commented [184]: Redundant – communication (and coordination, collaboration should be done for all patients. this recommendation should be set for all.

When a shared decision cannot be reached with the patient

As discussed above, prescribers should work with patients in a shared decision-making process when considering BZD tapering. However, there are some instances when a prescriber may initiate a taper when the patient is ambivalent about or against tapering, including:

- When a patient poses a threat to the safety of the clinician, staff, or other patients
- When a patient is diverting their medication
- When a patient engages in criminal behaviors within the treatment setting
- When there is significant respiratory depression

In these instances, the prescriber should explain the reasons for their decision with the patient and carefully document the rationale and related discussions. Best practices include providing a written summary to the patient. They should also offer a referral to an appropriate alternative treatment individualized to the patient's needs that can manage the tapering process, providing a warm handoff if appropriate and if the patient is amenable. If the patient declines referral, the prescriber may consider a plan to taper BZD that considers the safety of all parties.

In the situations detailed above, the prescriber may need to initiate a more rapid taper than would typically be indicated. The prescriber may need to balance conflicting obligations. For example, the prescriber has a duty to report suspected medication diversion and to discontinue prescribing medications if they are being diverted. [Note that if a patient is known to be diverting their BZD

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1 medication and has not been taking the medication regularly, ongoing prescriptions to support a
2 taper are not necessary.] At the same time, the prescriber has a duty to the patient who may be at
3 risk for life threatening withdrawal if medications are abruptly discontinued. Clinicians should
4 consider seeking the advice of legal counsel, risk management, and or health systems
5 administrators in these complex situations. State licensing boards and professional organizations
6 may also have guidance available. The prescriber may consider a discharge taper to prevent
7 severe or complicated withdrawal. For example, providing a 14-to-30-day prescription with
8 detailed instructions on how to taper the medication over that time period. When determining the
9 dose and number of pills the clinician should carefully consider the individual patient's risks
10 including suicidality and overdose. Given uncertainties regarding patient follow up after
11 discharge, a prescription for adjunctive medications may also be considered to help alleviate
12 potential withdrawal symptoms(See Adjunctive Medications Table). The prescriber should
13 clearly communicate that this will be the last BZD prescription provided, the risks of abrupt
14 discontinuation of BZD, and what symptoms should trigger them to seek emergency medical
15 care. This encounter should be well documented.

16 Some patients may be upset at the prospect of medication tapering. Clinicians should be aware of
17 this risk and consider how to mitigate risks to themselves, their staff, and other patients. De-
18 escalation strategies may be helpful to reduce anger and frustration. Other strategies can include
19 being close to the door, having another person in the room, conducting the appointment via
20 telemedicine, and alerting clinic security in advance if available. Clinics that experience these
21 types of challenges more often can also consider implementing help buttons that allow clinicians
22 to silently alert other staff of the need for assistance.

23 These situations are challenging for prescribers, staff, and patients. Providers should consider
24 consultation with their organization's legal or risk management team and/or their malpractice
25 carrier if they have concerns. Furthermore, it is recommended that organizations have policies
26 and procedures in place to support providers and staff in situations where a patient's preferences
27 are not congruent with safe medical prescribing. Prescribers and staff should also be cognizant of
28 their own mental wellness when dealing with difficult patient encounters and be able to pursue
29 support without fear of repercussions.

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1 When the risks of continued prescribing outweigh the benefits of tapering for the patient

2 When the prescriber is concerned that continued BZD use is not in the patient's best interest,
3 they should discuss this with the patient. It is important to listen to the patient's concerns and any
4 reasons for disagreement. Clinicians should be mindful of unconscious bias when initiating a
5 taper against a patient's wishes, and they also need to be aware that this has very low long-term
6 success rates. If after this discussion, the clinician and the patient (or care partner) do not agree
7 on the need for a taper consider referral for a second opinion.

8 When initiating a taper when the patient does not agree, the prescriber should follow the
9 guidance provided in the Tapering Strategies section. They should clearly communicate their
10 rationale for initiating a taper to the patient. As discussed above, it is important to closely
11 monitor the patient's response to the taper and adjust the strategy as appropriate.

12 Inherited patients

13 In some instances, a prescriber may inherit a patient who has been prescribed high dose and/or
14 long-term BZD use (> 1 month). Clinicians have an obligation to promote patient safety,
15 including not continuing to prescribe a medication (or dosages of the medication) that poses a
16 significant risk to the patient. They can attempt to consult with the prior prescriber and other
17 relevant mental health or physical healthcare providers. If the prescriber is not comfortable
18 assuming responsibility for the prescription, they can consider referral to another provider or to a
19 more intensive level of care if appropriate with a bridging prescription to prevent abrupt
20 discontinuation of the medication.

21 Emergency departments (ED) have unique considerations as they are subject to the Emergency
22 Medical Treatment and Active Labor Act (EMTALA) which requires them to provide necessary
23 stabilizing treatment for emergency medical conditions for any individual who comes to the
24 hospital. Patients should not be routinely referred to the ED unless they are experiencing or
25 imminently expected to experience severe acute withdrawal. ED providers may initiate a short
26 taper or provide a bridging BZD prescription if appropriate. However, a clear plan for a safe
27 taper and follow-up should be in place at the time of discharge. Due to the lack of capacity for
28 direct follow up, ED providers may initiate, or admit the patient for inpatient care to initiate, a

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1 taper using very long-acting agents (e.g., phenobarbital protocol) and referral to an appropriate
2 provider for any ongoing care needs.

3 Strategies for preventing diversion

4 If a prescriber is aware that a patient is diverting controlled medication and continues to
5 prescribe that medication, it can create legal risk for them. In addition, their Drug Enforcement
6 Agency (DEA) and license to practice could be in jeopardy. As discussed above, this can lead to
7 complex situations in which the prescriber is balancing this risk against the risks to the patient
8 associated with rapid discontinuation of BZD. Prescribers should educate patients on the
9 consequences of medication diversion in a patient-centered manner, including required reporting
10 and medication discontinuation. If the prescriber is concerned about the potential for diversion
11 they can consider:

- 12 ● Screening for and addressing substance misuse and use disorders
- 13 ● Pill checks
- 14 ● Medication agreements
- 15 ● Shorter duration between prescriptions
- 16 ● Limiting refills
- 17 ● Partnering with collateral contacts (e.g., family member, friend, or care partner)
- 18 ● Coordinating with the pharmacy
- 19 ● Checking the PDMP when initiating or refilling a prescription

20 Prescribers can include a note to the pharmacist in the e-prescription asking the pharmacist to
21 only fill BZD prescriptions from their office. Integrated care systems may consider including a
22 pharmacist on treatment teams. Some payers, including Medicaid, can restrict who is allowed to
23 prescribe controlled substances for a given patient. If a controlled substance agreement is used, it
24 can include that the patient can only get controlled substance prescriptions filled by a specific
25 pharmacy. Prescribers can also work with payers to request a case manager who can conduct
26 drug utilization reviews which allows them to see all medications, not just those in the PDMP.

27 **Final Thoughts**

28 The CGC was surprised by the lack of controlled studies related to many of the topics discussed
29 in this Guideline. Our systematic review found no trials comparing BZD tapering strategies, or

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1 other important aspects of management of this patient population. **Further research** into best
2 practices for BZD tapering strategies that support patient safety and optimal outcomes is needed.

Commented [185]: Again, create a table to pose research questions. This is a great opportunity to prompt the research community.

3
4 <<A couple of items which are essential to BZD discontinuation are not addressed in this
5 document. Please address them in the next issue of this guideline.>>

6 Fluoroquinolones also occupy BZD receptor sites. They bind tightly and block the
7 sedative/hypnotic effects of BZDs. This can cause an exacerbation of withdrawal symptoms,
8 possibly to dangerous levels. They should be avoided during BZD use, while tapering and after
9 tapering is complete, as they can trigger the re-emergence of BIND.

Commented [186]: References:
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10
11 The clinician's job does not end when a patient is tapered: this subset of patients will continue to
12 need symptomatic relief and peer support, possibly indefinitely. Note that there is a substantial
13 risk of suicide in this group, with one survey showing 54% contemplated or attempted suicide.

Commented [187]: Like most of the extant literature on BZD withdrawal, this guideline does not address the problem of long-term post-withdrawal sequelae associated with use of BZDs for >2-4 weeks. A substantial minority of those who use BZDs for >2-4 weeks (one study estimated 10-15%, another 25%) will have long-term dysfunction associated with their use of BZDs.

Commented [188R187]: References:
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And 15-44% with moderate to severe withdrawal:
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- 1 **addiction:** A treatable chronic medical disease involving complex interactions among brain
2 circuits, genetics, the environment, and an individual’s life experiences. People with addiction
3 use substances or engage in behaviors that become compulsive and often continue despite
4 harmful consequences. Prevention efforts and treatment approaches for addiction are generally as
5 successful as those for other chronic diseases.
- 6 **addiction medication:** Medications that are specifically indicated for and prescribed to treat
7 substance use disorders (SUDs) as an initial lifesaving measure, motivational engagement
8 strategy (i.e., withdrawal management), and as part of a long-term treatment plan similar to
9 medications used to treat other chronic diseases such as bipolar disorder or diabetes.
- 10 **addiction medicine:** A medical subspecialty concerned with the prevention, evaluation,
11 diagnosis, treatment, and recovery of people with the disease of addiction and substance-related
12 health conditions, as well as people who use substances—including nicotine, alcohol,
13 prescription medications, and other licit and illicit drugs—in an unhealthy manner. Addiction
14 medicine is recognized as a distinct medical sub- specialty within preventive medicine by the
15 American Board of Medical Specialties (ABMS).
- 16 **care partner:** A person who provides support to a person with a chronic condition to help
17 manage their healthcare needs. The term “care partner” is preferred over caregiver because it
18 emphasizes the person’s role in shared decision making with the patient and their providers.
- 19 **clinician:** A health professional with the scope of practice to provide medical or clinical services
20 (see **clinical staff, medical staff**).
- 21 **drug testing:** The process of analyzing a biological specimen to check for the presence of
22 chemicals that indicate exposure to selected substances.
- 23 **inpatient treatment:** Intensive 24-hour-a-day services delivered in a hospital setting.
- 24 **level of care:** A discrete intensity of clinical services available in a given program or setting (see
25 setting).
- 26 **medically managed program:** a program with a primary focus of treating withdrawal and/or
27 stabilizing biomedical and psychiatric concerns while also providing the full spectrum of
28 psychosocial services for patients who are able to participate effectively.
- 29 **patient:** An individual receiving substance use disorder treatment. Interchangeable with client,
30 which is used more commonly in nonmedical settings.
- 31 **setting:** A general environment in which treatment is delivered.
- 32 **substance use disorder (SUD):** A medical illness consisting of a cluster of cognitive,
33 behavioral, and physiological symptoms caused by repeated misuse of a substance or substances.
34 Characterized by clinically significant impairments in health, social function, and impaired
35 control over substance use (see **addiction**).
- 36 **symptom-triggered taper:** Withdrawal management strategy where medication is administered
37 in response to withdrawal symptoms versus on a specific schedule
- 38 **warm handoff:** A care transition in which the referring clinician facilitates a direct (i.e., face-to-
39 face) introduction of the patient to the receiving clinician at their next level of care.

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1	Appendix B. Abbreviations and Acronyms
2	AAFP American Academy of Family Physicians
3	AAN American Academy of Neurology
4	AANP American Academy of Nurse Practitioners
5	AAPA American Academy of Physician Associates
6	AAPP American Association of Psychiatric Pharmacists
7	ACOG American College of Obstetricians and Gynecologists
8	AGS American Geriatrics Society
9	AHRQ Agency for Healthcare Research and Quality
10	APA American Psychiatric Association
11	ASAM American Society of Addiction Medicine
12	BWSQ Benzodiazepine Withdrawal Symptom Questionnaire
13	BZD Benzodiazepine
14	CBT Cognitive Behavioral Therapy
15	CDC Centers for Disease Control and Prevention
16	CGC Clinical Guideline Committee
17	CNS Central nervous system
18	CINAHL Cumulative Index to Nursing and Allied Health Literature
19	CIWA-Ar Clinical Institute Withdrawal Assessment of Alcohol Scale, Revised
20	CIWA-B Clinical Institute Withdrawal Assessment Scale - Benzodiazepines
21	CPG Clinical Practice Guideline
22	CPG-MOS CPG Methodology Oversight Committee
23	CYP cytochrome P450
24	DEA Drug Enforcement Agency
25	DSM Diagnostic and Statistical Manual of Mental Disorders
26	DSM-5-TR Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition, Text
27	Revision
28	EBI Evidence-based Intervention
29	ED Emergency department
30	EMTALA Emergency Medical Treatment and Active Labor Act

Commented [190]: Add CBT-I

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1	ETD	evidence-to-decision
2	FDA	Food and Drug Administration
3	GABA	Gamma-aminobutyric acid
4	GRADE	Grading of Recommendations Assessment, Development, and Evaluation
5	LOC	Level of Care
6	LOCUS	The Level of Care Utilization System
7	MH	Mental Health
8	MI	Motivational Interviewing
9	MOUD	Medications for Opioid use disorder
10	NIH	National Institutes of Health
11	NSDUH	National Survey on Drug Use and Health
12	OTC	Over the counter
13	OTP	Opioid treatment program
14	OUD	Opioid use disorder
15	PDMP	prescription drug monitoring program
16	PICO	Population, Intervention, Comparators, Outcomes
17	PTSD	post-traumatic stress disorder
18	QIC	Quality Improvement Council
19	RCT	randomized controlled trial
20	RIOSOIRD	Risk Index for Overdose or Serious Opioid-induced Respiratory Depression
21	SSRI	selective serotonin reuptake inhibitor
22	SUD	Substance use disorder
23	UDT/UDS	Urine drug testing/screening
24	VA	Department of Veterans Affairs

Commented [192]: Add RIOSORD

25 [Add definitions:](#)

26

27 [Agonist](#)

28 [A chemical that binds to a receptor and activates it to cause a physiologic response.](#)

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Antagonist

A chemical that binds to a receptor and blocks a physiological response.

Cross tapering

The process of transitioning from one medication to another within the same class by sequentially simultaneously reducing one medication while increasing the other.

Cut and hold

A colloquial term by patients to indicate a reduction in dose which is then kept the same for a period of time, often one month.

Diazepam equivalents

Based on clinical effect, the estimated equivalent in milligrams of diazepam of a different GABAA active agent.

Dosage

The amount of a medication taken over a specified period of time, usually one day.

Dose

The amount of a medication taken at any one time, such as, in the morning. It is not meant to refer to the total amount taken over a full day which is referred to by the term dosage.

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- 1 [GABAA active agents](#)
- 2 [Any medication or substance that affects the GABA receptor as an agonist, antagonist, or](#)
- 3 [inverse agonist.](#)
- 4
- 5 [Hyperbolic Tapering](#)
- 6 [A strategy of sequential dosage reduction of a substance, whereby the amount \(as in milligrams\)](#)
- 7 [of the reduction decreases in subsequent stages](#)
- 8
- 9 [Interdose withdrawal](#)
- 10 [Withdrawal symptoms that are evidenced due to waning blood levels prior to the next dose of](#)
- 11 [the substance taken, seen particularly with short-acting medications.](#)
- 12
- 13 [Liquid titration](#)
- 14 [A colloquial term used by patients that refers to a technique of mixing a miscible medication in](#)
- 15 [a liquid and reducing the amount taken sequentially.](#)
- 16
- 17 [Long-term use](#)
- 18 [In research and publications the duration refers to ranges from 2 weeks to 1 year. In this](#)
- 19 [document it refers to a duration exceeding 1 month.](#)
- 20
- 21 [Micro-dosing](#)
- 22 [A colloquial term used by patients to refer to a dose that is less than dose amounts found](#)
- 23 [available with commercially available products.](#)

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2 Micro-tapering

3 A colloquial term used by patients to refer to a process of tapering whereby the dosage of a
4 medication is reduced by less than ¼ of the lowest-dose pill of that medication.

5 Protracted withdrawal

6 The continuation of withdrawal symptoms for a period of time greater than
7 generally seen or expected. For BZDs, that duration usually refers to
8 symptoms lasting more than 6 months.

9

10 Recurrence

11 The return of symptoms of an underlying condition to a level of severity no
12 greater than that seen prior to instituting an intervention, such as a
13 medication.

14

15 Rebound

16 The return of symptoms of an underlying condition to a level of severity
17 *greater* than that seen prior to instituting an intervention, such as a
18 medication.

19

20 Reinstatement

21 Reinstitution of a medication or a higher dosage of a medication.

22

23 Relapse

24 The return of symptoms of a medical condition often used in a pejorative
25 manner.

26

27 Salience

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1 Attractiveness of a substance, largely due to craving.

2

3 Short-term use

4 In research and publications the duration refers to ranges from less than 2
5 weeks to less than 1 year. In this document it refers to a duration less than
6 1 month.

7

8 Substance abuse

9 Refers to the use of a substance for nonmedical purposes or outside of
10 social norms. It is used in a pejorative manner and should be replaced by
11 misuse (used for an appropriate medical reason, but an inappropriate
12 manner) or nonmedical use (use for a nonmedical purpose).

13

14 Tolerance

15 Neurophysiologically, the development of receptor adaptations whereby the
16 same dose of a substance has a lesser effect or a larger dose of the
17 substance is necessary to get the same effect.

18

19 Updosing

20 A term used colloquially to refer to increasing the dosage of a medication.

21

22 Waves

23 A term used colloquially to refer to a period of time whereby symptoms of
24 BZD withdrawal become more prominent, lasting anywhere from days to
25 months.

26

27 Windows

28 A term used colloquially to refer to a period of time whereby symptoms of
29 BZD become less prominent, lasting anywhere from days to months.

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1

2 **Withdrawal**

3 Refers to discontinuation of a substance in part or in whole; or to the
4 development of symptoms due to the discontinuation of a substance, in
5 part or in whole.

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1 **Appendix C. Methodology**

2 A systematic literature review was conducted to establish a foundation of evidence for guideline
3 recommendations. Methods followed current best practices from the Agency for Healthcare
4 Research and Quality (AHRQ) for systematic reviews,¹⁴⁹ including screening and data extraction
5 in duplicate, risk of bias assessment using standardized instruments, and a synthesized narrative
6 summary of findings. In accordance with PRISMA standards,¹⁵⁰ the systematic review was
7 registered prospectively in the PROSPERO international prospective register of systematic
8 reviews database (Identification Number: CRD42023408418).

9 The literature review informed the deliberations of a committee of experts, which developed
10 recommendation statements that consider an intervention's clinical benefits and harms, as well as
11 patient values and preferences. The GRADE (Grading of Recommendations, Assessment,
12 Development, and Evaluation) method was used to develop recommendations in areas with
13 sufficient evidence.²⁵ Where evidence was lacking, a modified Delphi process was used to
14 develop clinical consensus statements.²⁶ As there is relatively little research on BZD
15 discontinuation of long-term BZD prescriptions this strategy allowed for the inclusion of
16 guidance in areas for which the evidence is highly limited.

17 ***Clinical Practice Guideline Team***

18 ***Clinical Guideline Committee Formation and Oversight***

19 ASAM's Quality Improvement Council (QIC) and Clinical Practice Guideline Methodology and
20 Oversight Committee (CPG-MOS) oversaw the development of this guideline. The FDA
21 provided guidance on the content and development of the CPG but did not dictate the content.
22 The QIC, working with partner medical societies and the FDA, oversaw the appointment of a
23 Clinical Guideline Committee (CGC) comprised of clinicians with broad subject matter expertise
24 across medicine, psychiatry, and pharmacology representing regional and demographic diversity.
25 Partner medical and professional societies included:

- 26 • The American Academy of Family Physicians (AAFP),
- 27 • The American Academy of Neurology (AAN),
- 28 • The American Academy of Physician Associates (AAPA),
- 29 • The American Association of Medical Toxicology (ACMT),

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- 1 • The American Association of Nurse Practitioners (AANP),
- 2 • The American Association of Psychiatric Pharmacists (AAPP)
- 3 • The American College of Obstetricians and Gynecologists (ACOG),
- 4 • The American Geriatrics Society (AGS), and
- 5 • The American Psychiatric Association (APA).

6 A list of members, their areas of expertise, and conflict of interest disclosures are available in
7 [Appendix D](#). Members of the CPG-MOS and the Ethics Committee reviewed disclosures of
8 interest. No members of the CGC had high level conflicts of interest in relation to the guideline
9 topic. One member [BBS] was determined to have a moderate conflict of interest due to the
10 potential for industry profit from education on the Guideline delivered through their LLC. As a
11 mitigation strategy this member was asked to not accept financial or any other compensation
12 from a for-profit or industry group for speaking engagements related to the topic of this
13 Guideline for a period of 24 months following the completion of the Guideline.

Patient Panel

15 ASAM reached out to leading patient advocacy organizations to nominate representatives to
16 serve on a panel of individuals with lived experience with BZD discontinuation (the Patient
17 Panel). The panel was engaged throughout the development process, providing input on:

- 18 (1) the key clinical questions
- 19 (2) critical and important outcomes
- 20 (3) the recommendation statements

Key Questions and Outcome Development

23 The CGC, with input from the FDA and Patient Panel, identified the following key clinical
24 questions to be addressed by the systematic review and guideline:

- 25 4. What is the efficacy and/or safety of tapering strategies for BZDs?
- 26 5. What factors influence the outcomes of BZD tapering and should be monitored?
- 27 6. How can shared decision-making and patient-centered health care be utilized to
28 support the effectiveness and safety of BZD tapering?

Commented [193]: My understanding is that this was very limited and insufficient. Although complete agreement among all patients is not possible, it is important that there is some basic agreement, and from what I understand there are major disagreements – major – with the contents of this draft. To me this is the same issue patients with BZD challenges have with their own medical providers: viz., that of not being taken seriously and discounting the seriousness of their own BZD (including tapering) experiences. CGC should renew efforts to seek to incorporate their concerns, ideas, and suggestions. It will be a far better guideline, be used by patients who find it online to provide to prescribers who are unaware of it, and even better: if it truly meets the concerns of the patient panel, it would not only result in their endorsement but also be promoted by them on the many, many online sites out there. I would imagine too that the CGC would not want to later backtrack on the content because of ensuing harm in the same way experienced after the 2016 CDC opioid guideline...

Commented [194R193]: We are in touch with the patient panel but our response is separate from their responses. It is incumbent upon the CGC to indicate in the document and any associated materials for transparency purposes the CGC needs to state outright that the patient panel does not endorse this guideline even as their input was received and considered!!

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- 1 The questions were used to develop a Population, Intervention, Comparators, Outcomes (PICO)
- 2 framework for identifying relevant research literature to answer each of the key clinical
- 3 questions.
- 4 2) Population: Adults who have been using one or more BZD for at least 2-4 weeks.
- 5 3) Interventions: Two types of interventions were considered:
- 6 a. Interventions to promote the successful discontinuation of BZD use
- 7 b. Interventions to manage withdrawal symptoms when discontinuing BZDs
- 8 4) Comparators: Alternative interventions, treatment as usual, placebo, or active control
- 9 condition
- 10 5) Outcomes: BZD cessation or dose reduction, BZD withdrawal severity, recurrence/rebound
- 11 of BZD-indicated condition (e.g., insomnia, anxiety), sleep problems, cognition, mood,
- 12 quality of life/patient satisfaction, global functioning, study attrition, other substance use, and
- 13 adverse events.

Literature Review

16 The following databases were searched during March and April 2023: EMBASE, PsycINFO,
17 PubMed, and Cumulative Index to Nursing and Allied Health Literature (CINAHL). The search
18 was limited to controlled trials, cohort studies with a comparison condition, and systematic
19 reviews of randomized controlled trials (RCTs) published in English on January 1, 2000 or later.
20 To be included, studies needed to have at least 20 adult participants using one or more BZDs at
21 baseline for at least two weeks and include a BZD discontinuation strategy aimed at patients (i.e.,
22 not targeting healthcare systems or provider prescribing behavior). Articles were reviewed in
23 duplicate for inclusion at the title, abstract, and full-text levels. Discussion and consensus
24 between two research associates resolved uncertainty about article inclusion. Hand-searching for
25 included publications was also completed.

26 Three supplemental searches were conducted on predictors for developing BZD withdrawal,
27 patient preferences and values, and validated BZD withdrawal scales. A grey literature search
28 was conducted to search websites for BZD-related literature. The CGC and patient panel also
29 provided grey literature.

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1 ***Evidence Review***

2 A risk of bias assessment was completed for each included study. Quality was rated using the
3 AMSTAR-2 tool for systematic reviews,¹⁵¹ the revised Cochrane Risk of Bias (RoB 2) tool for
4 randomized trials,¹⁵² and the National Institutes of Health (NIH) tool for observational cohort
5 studies.¹⁵³

6 Characteristics of Individual Studies tables of the included studies including key information
7 about study methods and risk of bias ratings, as well as a narrative synthesis of the results for
8 each intervention found by the literature review was provided to the CGC to review. Where the
9 CGC determined that the evidence for an intervention was sufficient to potentially lead to a
10 recommendation, the relevant study results were extracted into Cochrane Review Manager
11 (RevMan) software.¹⁵⁴ Following best practices as outlined in the Cochrane Handbook,¹⁵⁵
12 outcome data were pooled and uploaded into GRADE profiler (GRADEpro) software¹⁵⁶ to
13 construct 'Summary of Findings' tables and assist in the assessment of the quality of the body of
14 evidence for an intervention.

15 The quality of the body of evidence was rated as high, moderate, or low based on the quality
16 (risk of bias) of the included studies, the consistency and precision of the included studies'
17 results, the direct relevance of the studies to the key questions, and the potential for publication
18 bias. The level of quality reflects a level of confidence—or certainty—in how closely effect
19 estimates reflect the true effect and, therefore, the extent to which the evidence can be relied
20 upon when making recommendation decisions.

21 ***Recommendation Development***

22 In deliberations about recommendations, decisions on whether a recommendation could be made
23 were based on the available evidence and judgments regarding the recommendation's expected
24 benefits and harms and its acceptability and feasibility for potential stakeholders. The CGC
25 completed an evidence-to-decision (ETD) table to document the evidence and their judgments
26 for these recommendations, included in [Appendix E](#). When clinical evidence was of low quality,
27 unclear, or nonexistent, the CGC decided whether a recommendation could still be made on the
28 basis of the committee's clinical expertise or should be delayed until further evidence is
29 produced and whether failing to make a recommendation could lead to potential harm.

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1 Consensus-based recommendations also considered their expected clinical impact, acceptability,
2 and feasibility. Consensus-based recommendations are labeled using “Clinical consensus”,
3 whereas evidence-based statements include a certainty of evidence rating.

4 A 70% agreement among CGC members was required to approve a recommendation. The CGC
5 graded the strength of each accepted recommendation as strong or conditional based on the
6 overall balance of benefits and harms, the certainty of the evidence of treatment effects, and
7 patient preferences and values. Recommendations were worded to reflect their strength. For
8 example, “clinicians should” indicates a strong recommendation while “clinicians can” indicates
9 a weaker recommendation. The strength of the recommendation was determined via committee
10 vote, with a 70% threshold required for consensus.

11 ***External Review***

12 ASAM is inviting major stakeholder organizations, partner organizations, relevant committees,
13 and its Board of Directors to provide comments on this Guideline draft. The CGC and Patient
14 Panel will be asked for final comments. In addition, ASAM will work with the FDA and partner
15 organizations to broadly disseminate a call for public comment. The CGC will review all
16 comments and identify issues to be addressed before publication. Major edits will be subject to a
17 vote by the CGC.

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1 **Appendix D. Disclosures of Interest**

2 Disclosures and Conflicts of Interest

3 A. 2024 Guideline Committee Member Relationships with Industry and Other Entities

Guideline Committee Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/Principal	Institutional, Organizational or other financial benefit	Research
Maryann Amirshahi, MD, PharmD, MPH, BCPS, FASAM	MedStar Washington Hospital Center; National Capital Poison Center; George University	Expert Witness*; FDA Advisory Panels*	None	None	None	None
Emily Brunner, MD, DFASAM (Chair)	Gateway	None	None	None	None	None
Chwen-Yuen Chen, MD, FACP, FASAM	Stanford University; Private Practice	Anonymous Health*; Expert Witness*	None	Private Practice**	None	None
Tracy Klein, PhD, FAANP, FAAN	Washington State University	Expert Witness*	None	None	Oregon Prescription Drug Monitoring Program Advisory Committee	None
Donovan Maust, MD, MS	University of Michigan	Expert Witness**	None	None	None	None
Marcia Mecca, MD	VA Connecticut	None	None	None	None	None

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Deanna Najera, MPAS, MS, PA-C, DFAAPA	Medstar Emergency Physicians; Carroll County Health Department; TrueNorth Wellness Services	None	PA Foundation*; American Academy of Physician Associates*; Maryland Academy of Physician Assistants*; Pennsylvania Society of Physician Associates*	None	None	None
Chinyere Ogbonna, MD, MPH	Kaiser Permanente San Jose	None	None	None	None	None
Kiran Rajneesh, MD, MS	The Ohio State University	Merck Pharmaceuticals*	None	None	None	None
Elizabeth Roll, MD	Yukon Kuskokwim Health Corporation	None	None	None	None	None
Amy Sanders, MD, MS, MPHIL, FAAN	StealthCo	Ionis Pharmaceuticals*	None	None	None	None
Brett Snodgrass, FNP-C, CPE, ACHPN, FAANP	Baptist Memorial Health Care	None	Salix Pharmaceuticals**	None	None	None
Amy Vandenberg, PharmD, BCPP	University of Michigan College of Pharmacy	Expert Witness*	None	None	None	None

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Tricia Wright, MD, MS, FACOG, DFASAM	University of California San Francisco	None	None	None	None	None
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2 B. 2024 ASAM Quality Improvement Council Relationships with Industry and Other Entities

Quality Improvement Council Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/Principal	Institutional, Organizational or other financial benefit	Research
Itai Danovitch, MD, MBA, FAPA, DFASAM	Cedars-Sinai Medical Center	Expert Witness**	None	None	Bexon Biomedical Board of Directors*; Workit Health*; California Mental Health Services Commissioner	None
Kenneth I. Freedman, MD, MS, MBA, FACP, AGAF, DFASAM	Aetna/CVS Health; The Recovery Research Network	None	None	None	National Quality Forum	None
Michael P. Frost, MD, DFASAM, FACP	Wayspring; Pocket Naloxone Corp; Frost Medical Group, LLC	Accord Healthcare UK*	Braeburn Pharmaceuticals*	Frost Medical Group, LLC**	None	None
R. Jeffrey Goldsmith, MD, DLFAPA, DFASAM	None	None	None	Bristol-Myers Squibb**; Gilead Sciences Inc.**; Merck and Company Inc.**; Pfizer Inc.**; Sanofi ADR**	Windhorse Zen Community Board Member*	None

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Margaret A. Jarvis, MD, DFASAM	Geisinger	American Society of Addiction Medicine**; Expert Witness**	None	None	PA Governor’s Behavioral Health Council; American Board of Preventive Medicine Exam Subcommittee**	None
Navdeep Kang, Psy.D.	Acadia Healthcare	Bonfire Analytics*	None	Brightview Health**	Talbert House Board of Trustees	None
Tiffany Y. Lu, MD, MS	Albert Einstein College of Medicine	None	None	None	None	None
Tami Mark, PhD, MBA	RTI International	None	None	None	None	None
Stephen Martin, MD, FASAM	Boulder Care; Greylock Recovery	None	None	Boulder Care	None	None
Melissa B. Weimer, DO, MCR, FASAM	Yale School of Medicine; Medical Legal Consulting; St. Peters Health Partners, Yale New Haven Hospital; PCSS-MAUS (Spouse)	CVS Health (Spouse)**	None	None	American Society of Addiction Medicine (Spouse)**	None

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C. 2024 ASAM Board of Directors Relationships with Industry and Other Entities

Board Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/Principal	Institutional, Organizational or other financial benefit	Research
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Anika Alvanzo, MD, MS, FACP, DFASAM	Health Management Associates; Absolute Care	Uzima Consulting Group, LLC**	None	None	None	None
Keyghobad Farid Araki, MD, FRCPC, ABAM, FASAM	Centre for Addiction and Mental Health	None	None	None	None	None
Nicholas Athanasiou, MD, MBA, DFASAM	University of California Los Angeles	None	None	None	None	None
Emily Brunner, MD, DFASAM	Gateway	None	None	None	None	None
Me.g.an Buresh, MD, DFASAM	Johns Hopkins University School of Medicine	None	None	None	American Journal of Medicine*	None
Itai Danovitch, MD, MBA, FAPA, DFASAM	Cedars-Sinai Medical Center	Expert Witness**	None	None	Bexon Biomedical Board of Directors*; Workit Health*; California Mental Health Services Commissioner	None
Alta DeRoo, MD, MBA, FACOG, DFASAM	Hazelden Betty Ford Foundation	None	None	None	None	None

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Michael Fingerhood, MD, FACP, DFASAM	Johns Hopkins University	None	None	None	American Academy of HIV Medicine	None
Kenneth I. Freedman, MD, MS, MBA, FACP, AGAF, DFASAM	Aetna/CVS Health; The Recovery Research Network	None	None	None	National Quality Forum	None
William F. Haning, III, MD, DLFAPA, DFASAM	University of Hawai'i John A. Burns School of Medicine	Hawai'i State Department of Education (Spouse)	None	None	Honolulu Police Commission (Spouse)	None
Brian Hurley, MD, MBA, FAPA, DFASAM	Los Angeles County Department of Public Health; Private Practice; Centers for Care Innovation, PsyBAR; Camden Center	None	None	None	Frank Foundation Board of Directors	None
Teresa Jackson, MD, DFASAM	Lakeside-Milam Recovery Center	None	None	None	None	None
Margaret A. E. Jarvis, MD, DFASAM	Geisinger	American Society of Addiction Medicine**;	None	None	PA Governor's Behavioral Health Council; American Board of Preventive	None

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		Expert Witness**			Medicine Exam Subcommittee**	
Christina E. Jones, MD, FASAM	Teleleaf, LLC	None	None	None	None	None
Lori D. Karan, MD, FACP, DFASAM	VA Loma Linda Healthcare Center; Loma Linda University Health Education Consortium	None	None	None	None	None
Audrey M. Kern, MD, DFASAM	DynamiCare Health	None	None	None	New Hampshire Healthy Families Board of Directors*	None
Marla D. Kushner, DO, FACOFP, FAOAAM, FSAHM, DFASAM	Marla D. Kushner, DO, S.C.; Bicycle Health	None	None	Marla D. Kushner, DO, S.C	None	None
Nicole Labor, DO, FASAM	Optimus Transformative Medicine, LLC; Laborhood Change Project, Inc.; OneEighty, Inc.; Interval Brotherhood Homes, Inc.; Esper Treatment Center	None	None	None	None	None
James P. Murphy, MD, DFASAM	Murphy Pain Center	None	None	Murphy Pain Center**	Kentucky Harm Reduction Coalition Board of Directors; University of Louisville School of Medicine	None

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Cara A. Poland, MD, MEd, FACP, DFASAM	Michigan State University College of Human Medicine	None	None	None	None	None
Shawn Ryan, MD, MBA, FASAM	Brightview Health	Dynamicare*	None	Brightview Health*	None	None
Kelly S. Ramsey, MD, MPH, MA, FACP, DFASAM	Kelly S. Ramsey Consulting, LLC.; Case Western Reserve University	None	None	None	None	None
Surita Rao, MD, FASAM	University of Connecticut School of Medicine	None	None	None	None	None
Stephen M. Taylor, MD, MPH, DFAPA, DFASAM	Stephen M. Taylor, MD, PC; Pathway Healthcare Services, LLC	None	None	Stephen M. Taylor, MD, PC**	Medical Review Officer Certification Council Board of Directors; Addiction Prevention Coalition Board of Directors	None
Michael F. Weaver, MD, DFASAM	University of Texas Health Science Center at Houston and Center for Neurobehavioral Research on Addiction	None	None	None	American Board of Preventive Medicine	None
Timothy Wiegand, MD, FACMT,	University of Rochester Medical Center; Huther Doyle; Helio Health/Syracuse	Medicole.g.al Consulting**	None	None	American College of Medical Toxicology; Medical Toxicology Foundation	None

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FAACT, DFASAM	Behavioral Health; UpToDate; Aids Institute Department of Health					
Aleksandra E. Zgierska, MD, PhD, DFASAM	Pennsylvania State University	Pennsylvania Medicaid*	None	None	American Academy of Pain Medicine*	National Institutes of Health; National Institute on Drug Abuse

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DRAFT

1 **Appendix E. Evidence to Decision Tables**

2 ETD Table 1 - Question: Taper (+/- Placebo) compared to Abrupt Cessation (+/- Placebo) for BZD discontinuation

3 *Brief Evidence Summary*

4 The systematic review identified two RCTs with 70 participants with an unclear risk of bias that compared a gradual BZD taper to
 5 abrupt cessation. The “gradual” taper schedules used were relatively rapid, lasting only 7 to 8 days. The meta-analysis results found no
 6 difference in the rate of complete BZD discontinuation, return to BZD use after a period of discontinuation, delirium, or study
 7 completion between groups. However, patients undergoing a gradual taper reported significantly less severe BZD withdrawal and
 8 insomnia symptoms after 4 days (mid-taper) and up to 4 weeks compared to patients who suddenly stopped their BZD use. Patients
 9 undergoing a gradual taper also reported significantly less intense BZD cravings after 4 days (mid-taper), but this effect was no longer
 10 detected after 7 days (taper end).

11 *Summary of Findings Table*

Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Taper	Abrupt Cessation	Relative (95% CI)	Absolute (95% CI)		
BZD discontinuation @ taper end (assessed with: self-report)												
1 ¹	randomized trials	not serious	not serious	not serious	very serious ^a	none	19/20 (95.0%)	20/20 (100.0%)	RR 0.95 (0.83 to 1.09)	5 fewer per 100 (from 17 fewer to 9 more)	⊕⊕○ ○ Low	CRITICAL
BZD discontinuation @ 1-week follow-up (assessed with: self-report)												

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Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Taper	Abrupt Cessation	Relative (95% CI)	Absolute (95% CI)		
1 ¹	randomized trials	not serious	not serious	not serious	very serious ^a	none	18/20 (90.0%)	17/20 (85.0%)	RR 1.06 (0.84 to 1.34)	5 more per 100 (from 14 fewer to 29 more)	⊕⊕○ ○ Low	CRITICAL
BZD discontinuation @ 3-week follow-up (assessed with: self-report)												
1 ¹	randomized trials	not serious	not serious	not serious	very serious ^a	none	16/20 (80.0%)	10/20 (50.0%)	RR 1.60 (0.98 to 2.61)	30 more per 100 (from 1 fewer to 81 more)	⊕⊕○ ○ Low	CRITICAL
Return to BZD use after discontinuation @ 12-month follow-up (assessed with: General Practitioner-report)												
1 ¹	randomized trials	not serious	not serious	not serious	very serious ^a	none	8/16 (50.0%)	6/10 (60.0%)	RR 0.83 (0.41 to 1.69)	10 fewer per 100 (from 35 fewer to 41 more)	⊕⊕○ ○ Low	CRITICAL
Experienced delirium during taper												

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Certainty assessment							N ^o of patients		Effect		Certainty	Importance
N ^o of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Taper	Abrupt Cessation	Relative (95% CI)	Absolute (95% CI)		
1 ¹	randomized trials	not serious	not serious	not serious	very serious ^a	none	0/20 (0.0%)	2/20 (10.0%)	Peto OR 0.13 (0.01 to 2.13)	10 fewer per 100 (from 25 fewer to 5 more) ^b	⊕⊕○ ○ Low	CRITICAL
Withdrawal severity score @ mid-taper (assessed with: BWSQ; Self-report study scale, score range 0-40, higher = more severe)												
2 ^{1,2}	randomized trials	not serious	not serious	not serious	serious ^c	none	39	30	-	SMD 0.72 SD lower (1.22 lower to 0.22 lower)	⊕⊕⊕○ Moderate	CRITICAL
Withdrawal severity score @ mid-taper (assessed with: Observer-rated study scale, score range 0-4, higher = more severe)												
1 ²	randomized trials	serious ^d	not serious	not serious	very serious ^a	none	20	10	-	MD 0.44 lower (1.32 lower to 0.45 higher)	⊕○○○ ○ Very low	CRITICAL
Withdrawal severity score @ taper end (assessed with: BWSQ; Self-report study scale, score range 0-40, higher = more severe)												

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Certainty assessment							N ^o of patients		Effect		Certainty	Importance
N ^o of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Taper	Abrupt Cessation	Relative (95% CI)	Absolute (95% CI)		
2 ^{1,2}	randomized trials	not serious	serious ^f	not serious	serious ^c	none	39	30	-	SMD 0.54 SD lower (1.05 lower to 0.04 lower)	⊕⊕○ ○ Low	CRITICAL
Withdrawal severity score @ taper end (assessed with: Observer-rated study scale, score range 0-4, higher = more severe)												
1 ²	randomized trials	serious ^d	not serious	not serious	very serious ^a	none	20	10	-	MD 0.22 higher (0.27 lower to 0.7 higher)	⊕○○ ○ Very low	CRITICAL
Withdrawal severity score @ 1-week follow-up (assessed with: BWSQ)												
1 ¹	randomized trials	serious ^f	not serious	not serious	serious ^c	none	18	17	-	MD 1.3 lower (1.69 lower to 0.91 lower)	⊕⊕○ ○ Low	CRITICAL
Withdrawal severity score @ 3-week follow-up (assessed with: BWSQ)												

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Certainty assessment							N ^o of patients		Effect		Certainty	Importance
N ^o of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Taper	Abrupt Cessation	Relative (95% CI)	Absolute (95% CI)		
1 ¹	randomized trials	serious ^f	not serious	not serious	serious ^c	none	16	10	-	MD 1.88 lower (2.37 lower to 1.39 lower)	⊕⊕○ ○ Low	CRITICAL
Dropout												
2	randomized trials	not serious	not serious	not serious	very serious ^a	none	1/20 (5.0%)	0/20 (0.0%)	RD - 0.03 (-0.07 to 0.13)	30 more per 1,000 (from 70 fewer to 130 more) ^b	⊕⊕○ ○ Low	IMPORTANT

1 **BWSQ:** Benzodiazepine Withdrawal Symptom Questionnaire, score range 0-40, higher = more severe withdrawal symptoms, self-report; **CI:** confidence interval; **MD:** mean difference; **RR:** risk ratio; **SMD:** standardized mean difference

3 **GRADE Working Group grades of evidence**

4 High quality: Further research is very unlikely to change our confidence in the estimate of effect.

5 Moderate quality: Further research is likely to have an important impact on our confidence in the estimate of effect and may change the estimate.

6 Low quality: Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to change the estimate.

7 Very low quality: We are very uncertain about the estimate.

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1 *Explanations*

- 2 a. Small sample size (n<100) and 95% CI crosses the line of null effect.
- 3 b. Absolute effect calculated from the risk difference due to zero events in one or both arms.
- 4 c. Small number of participants (<100 participants)
- 5 d. High risk of performance and detection bias from lack of personnel and assessor blinding for a majority of participants.
- 6 e. Significant heterogeneity ($I^2 = 77%$, $p=0.04$).
- 7 f. High risk of attrition bias. No follow-up data collected from dropouts. Dropout higher in the abrupt cessation group.

8 *Question*

Should Taper vs. Abrupt Cessation be used for BZD discontinuation?	
POPULATION:	Patients discontinuing long-term BZD use
INTERVENTION:	BZD taper (with or without placebo)
COMPARISON:	Abrupt cessation of BZD (with or without placebo)
MAIN OUTCOMES:	BZD discontinuation (self-report); Return to BZD use after discontinuation (reported by patient's General Practitioner-); Experienced delirium during taper; Withdrawal symptom severity score; Dropout.
SETTING:	Any clinical setting where
PERSPECTIVE:	Individual-level
CONFLICT OF INTERESTS:	None identified

9

10 *Assessment*

Problem Is the problem a priority?		
Judgement	Research evidence	Additional considerations

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<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		
Desirable Effects How substantial are the desirable anticipated effects?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 	See Summary of Findings Table above	Based on their experience, the Committee agreed that in general a gradual taper is beneficial compared to abrupt BZD cessation. However, a taper over only 1 week may be too rapid to see a significant benefit over abrupt cessation. Also, a taper without other supportive adjuncts may not be sufficient.
Undesirable Effects How substantial are the undesirable anticipated effects?		
Judgement	Research evidence	Additional considerations

<ul style="list-style-type: none"> ○ Trivial ● Small ○ Moderate ○ Large ○ Varies ○ Don't know 	<p>One participant dropped out of the study early (from the taper group). Two out of 70 participants experienced delirium, both following abrupt cessation of BZDs. Although the incidence of delirium was low (2.9%), the harm is severe enough to warrant consideration.</p>	<p>Neither study reported the incidence of seizures. The committee pointed out that no IRB of the recent era would allow randomized abrupt discontinuation in patients at risk for seizures. Gerra et al. 2002 did not include any post-taper follow-up.</p>
---	--	--

Certainty of evidence
What is the overall certainty of the evidence of effects?

Judgement	Research evidence			Additional considerations															
<ul style="list-style-type: none"> ○ Very low ● Low ○ Moderate ○ High ○ No included studies 	<table border="1"> <thead> <tr> <th>Outcomes</th> <th>Importance</th> <th>Certainty of the evidence (GRADE)</th> </tr> </thead> <tbody> <tr> <td>BZD discontinuation @ taper end assessed with: self-report</td> <td>CRITICAL</td> <td>⊕⊕○○ Low^a</td> </tr> <tr> <td>BZD discontinuation @ 1-week follow-up assessed with: self-report</td> <td>CRITICAL</td> <td>⊕⊕○○ Low^a</td> </tr> <tr> <td>BZD discontinuation @ 3-week follow-up assessed with: self-report</td> <td>CRITICAL</td> <td>⊕⊕○○ Low^a</td> </tr> <tr> <td>Return to BZD use after discontinuation @ 12-month follow-up assessed with: GP-report</td> <td>CRITICAL</td> <td>⊕⊕○○ Low^a</td> </tr> </tbody> </table>			Outcomes	Importance	Certainty of the evidence (GRADE)	BZD discontinuation @ taper end assessed with: self-report	CRITICAL	⊕⊕○○ Low ^a	BZD discontinuation @ 1-week follow-up assessed with: self-report	CRITICAL	⊕⊕○○ Low ^a	BZD discontinuation @ 3-week follow-up assessed with: self-report	CRITICAL	⊕⊕○○ Low ^a	Return to BZD use after discontinuation @ 12-month follow-up assessed with: GP-report	CRITICAL	⊕⊕○○ Low ^a	
Outcomes	Importance	Certainty of the evidence (GRADE)																	
BZD discontinuation @ taper end assessed with: self-report	CRITICAL	⊕⊕○○ Low ^a																	
BZD discontinuation @ 1-week follow-up assessed with: self-report	CRITICAL	⊕⊕○○ Low ^a																	
BZD discontinuation @ 3-week follow-up assessed with: self-report	CRITICAL	⊕⊕○○ Low ^a																	
Return to BZD use after discontinuation @ 12-month follow-up assessed with: GP-report	CRITICAL	⊕⊕○○ Low ^a																	

Experienced delirium during taper	CRITICAL	⊕⊕○○ Low ^a
Withdrawal severity score @ mid-taper assessed with: BWSQ; Self-report study scale	CRITICAL	⊕⊕⊕○ Moderate ^b
Withdrawal severity score @ mid-taper assessed with: Observer-rated study scale	CRITICAL	⊕○○○ Very low ^{a,c}
Withdrawal severity score @ taper end assessed with: BWSQ; Self-report study scale	CRITICAL	⊕⊕○○ Low ^{b,d}
Withdrawal severity score @ taper end assessed with: Observer-rated study scale	CRITICAL	⊕○○○ Very low ^{a,c}
Withdrawal severity score @ 1-week follow-up assessed with: BWSQ	CRITICAL	⊕⊕○○ Low ^{b,e}
Withdrawal severity score @ 3-week follow-up assessed with: BWSQ	CRITICAL	⊕⊕○○ Low ^{b,e}
Dropout	IMPORTANT	⊕⊕○○ Low ^a
<p>a. Small sample size (n<100) and 95% CI crosses the line of null effect. b. Small number of participants (<100 participants) c. High risk of performance and detection bias from a lack of personnel and assessor blinding for most participants. d. Significant heterogeneity (I² = 77%, p=0.04).</p>		

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	e. There is a high risk of attrition bias. No follow-up data were collected from dropouts, and dropouts were higher in the abrupt cessation group.	
Values		
Is there important uncertainty about or variability in how much people value the main outcomes?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ● Probably no important uncertainty or variability ○ No important uncertainty or variability 		
Balance of effects		
Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison 		

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<ul style="list-style-type: none"> ● Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		
Resources required How large are the resource requirements (costs)?"		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ Large costs ○ Moderate costs ○ Negligible costs and savings ○ Moderate savings ○ Large savings ● Varies ○ Don't know 		
Cost effectiveness Does the cost-effectiveness of the intervention favor the intervention or the comparison?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison ○ Probably favors the 		

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intervention <input type="radio"/> Favors the intervention <input checked="" type="radio"/> Varies <input type="radio"/> No included studies		
Acceptability Is the intervention acceptable to key stakeholders?		
Judgement	Research evidence	Additional considerations
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know	Providers and key stakeholders are against abrupt cessation. The Committee also agreed that the interventions included in the research evidence do not reflect a patient-centered process or clinical practice due to the lack of patient input and sense of control.	
Feasibility Is the intervention feasible to implement?		
Judgement	Research evidence	Additional considerations
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		

1

1 *Summary of judgements*

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
RESOURCES REQUIRED	Large costs	Moderate costs	Negligible costs and savings	Moderate savings	Large savings	Varies	Don't know
COST EFFECTIVENESS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	No included studies
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

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JUDGEMENT							
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

1

2 *Type of recommendation*

Strong recommendation against the intervention	Conditional recommendation against the intervention	Conditional recommendation for either the intervention or the comparison	Conditional recommendation for the intervention	Strong recommendation for the intervention
○	○	○	○	●

3

4 *Conclusions*

Recommendation
<p>[3a] Clinicians should avoid abruptly discontinuing BZD medication in patients who have been taking BZD daily or near daily (e.g., more days than not) for 1 month or longer.</p> <p>[3ai] While many patients who have been taking BZD for less than 4 weeks are able to discontinue the medication without a taper, clinicians can consider a short taper.</p> <p>[3b] If the BZD is discontinued without a taper the patient should be counseled to report the emergence of withdrawal and/or rebound symptoms.</p> <p>[3bi] If significant symptoms emerge, the clinician can consider medications for symptom management or restarting the BZD and initiating a taper.</p>
Justification
<p>The small size and risk of bias in the studies evaluated mean the evidence of treatment effect is uncertain. Tapering showed a small benefit over abrupt cessation by moderately reducing withdrawal symptoms. Tapering also showed a small benefit over abrupt cessation in the incidence of delirium. Two out of 70 participants experienced delirium, both following abrupt cessation. Although the incidence was low and the difference between interventions was non-significant, the Committee decided that the harm was sufficiently severe to warrant consideration. They determined that the balance of effects probably favors a taper over abrupt</p>

cessation. It was decided that the recommendation should be strong despite the low quality of evidence of effect, as the CPG Committee agreed that the 1-week tapers included in the research evidence might be too rapid to see a significant benefit over abrupt cessation. Also, they agreed that patients highly value reducing the severity of withdrawal symptoms.

References Summary

1. Gerra G, Zaimovic A, Giusti F, Moi G, Brewer C. Intravenous flumazenil versus oxazepam tapering in the treatment of benzodiazepine withdrawal: a randomized, placebo-controlled study. *Addiction Biology*. 2002;7(4):385-395. doi:10.1080/1355621021000005973
2. Petrovic M, Pevernagie D, Mariman A, Van Maele G, Afschrift M. Fast withdrawal from benzodiazepines in geriatric inpatients: a randomised double-blind, placebo-controlled trial. *Eur J Clin Pharmacol*. 2002;57(11):759-764. doi:10.1007/s00228-001-0387-4

1
2
3

1 ETD Table 2 - Question: CBT for Indicated Condition + Taper compared to Taper alone for BZD Discontinuation

2 In patients who are initiating a gradual taper to discontinue their long-term BZD use, does CBT that targets a specific underlying
3 psychological condition (e.g. CBT for Insomnia, CBT for General Anxiety Disorder) result in better benzodiazepine reduction and
4 clinical outcomes than tapering alone?

5 *Brief Evidence Summary*

6 The systematic review identified six RCTs with 279 participants, four with a high risk of bias from lack of blinding (Baillargeon 2003;
7 Morin 2004; Otto 1993; Otto 2010) and two with an unclear risk of bias from partial blinding (Gosselin 2006; Spiegel 1994), that
8 compared CBT interventions for specific conditions plus a gradual BZD taper to a gradual BZD taper alone. Three of the CBT
9 interventions targeted panic disorder (Otto 1993; Otto 2010; Spiegel 1994), two targeted insomnia (Baillargeon 2003; Morin 2004),
10 and one General Anxiety Disorder (Gosselin 2006). The meta-analysis results for critical outcomes found a higher rate of complete
11 BZD discontinuation immediately after and up to 12 months following taper in the CBT + Taper groups compared to Taper alone
12 (Baillargeon 2003; Gosselin 2006; Morin 2004; Otto 1993; Otto 2010; Spiegel 1994). Although the results were mixed for the rate of
13 return to BZD use after a period of cessation, likely because of the significant heterogeneity at different time points, the overall pattern
14 favors CBT + Taper.

15 *Summary of Findings Table*

Certainty assessment							N ^o of patients		Effect		Certainty	Importance
N ^o of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
BZD discontinuation @ 0-4 weeks post-taper												
6 ^{1,2,3,4,5,6}	randomized trials	serious ^a	not serious	not serious	not serious	none	103/136 (75.7%)	57/142 (40.1%)	RR 1.86 (1.48 to 2.32)	345 more per 1,000 (from 193 more to 530 more)	⊕⊕⊕○ Moderate	CRITICAL

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Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
BZD discontinuation @ 2-4-month follow-up												
6 ^{1,2,3,4,5,6}	randomized trials	serious ^a	not serious	not serious	not serious	none	89/136 (65.4%)	47/142 (33.1%)	RR 1.88 (1.48 to 2.43)	291 more per 1,000 (from 159 more to 473 more)	⊕⊕⊕○ Moderate	CRITICAL
BZD discontinuation @ 12-14-month follow-up												
3 ^{1,3,6}	randomized trials	serious ^a	serious ^b	not serious	not serious	none	59/92 (64.1%)	29/85 (34.1%)	RR 1.88 (1.35 to 2.64)	300 more per 1,000 (from 119 more to 560 more)	⊕⊕○ Low	CRITICAL
Return to BZD use @ 3-month follow-up												
4 ^{1,3,4,5}	randomized trials	not serious	serious ^c	not serious	serious ^d	none	10/67 (14.9%)	8/36 (22.2%)	Peto OR 0.60 (0.21 to 1.74)	70 fewer per 1,000 (from 230 fewer to 80 more) ^e	⊕⊕○ Low	CRITICAL
Return to BZD use @ 6-month follow-up												

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Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
2 ^{3,4}	randomized trials	not serious	not serious	not serious	serious ^f	none	3/33 (9.1%)	8/19 (42.1%)	Peto OR 0.15 (0.04 to 0.58)	330 fewer per 1,000 (from 580 fewer to 90 fewer) ^e	⊕⊕⊕○ Moderate	CRITICAL
Return to BZD use @ 12-month follow-up												
2 ^{1,3}	randomized trials	not serious	serious ^g	not serious	very serious ^h	none	10/44 (22.7%)	7/24 (29.2%)	RR 0.78 (0.34 to 1.77)	64 fewer per 1,000 (from 192 fewer to 225 more)	⊕○○○ ○ Very low	CRITICAL
BZD dose reduced 50% or more from baseline @ 0-4 weeks post-taper												
1 ⁶	randomized trials	serious ⁱ	not serious	not serious	serious ^f	none	33/34 (97.1%)	20/29 (69.0%)	RR 1.41 (1.09 to 1.81)	283 more per 1,000 (from 62 more to 559 more)	⊕⊕○○ ○ Low	IMPORTANT
BZD dose reduced 50% or more from baseline @ 3-month follow-up												

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Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
1 ⁶	randomized trials	serious ⁱ	not serious	not serious	very serious ^h	none	25/34 (73.5%)	19/29 (65.5%)	RR 1.12 (0.91 to 1.56)	79 more per 1,000 (from 59 fewer to 367 more)	⊕○○○ ○ Very low	IMPORTANT
BZD dose @ 0-4 weeks post-taper (assessed in: mg/week diazepam equivalents)												
2 ^{1,3}	randomized trials	serious ⁱ	not serious	not serious	serious ^d	none	58	55	-	MD 4.49 mg/week fewer (17.83 fewer to 8.85 more)	⊕⊕○○ ○ Low	IMPORTANT
BZD use frequency @ end of taper												
1 ¹	randomized trials	serious ⁱ	not serious	not serious	serious ^f	none	23	25	-	MD 2.09 nights/week fewer (3.35 fewer to 0.83 fewer)	⊕⊕○○ ○ Low	IMPORTANT
BZD use frequency @ 3-month follow-up												

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Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
1 ¹	randomized trials	serious ⁱ	not serious	not serious	very serious ^h	none	27	25	-	MD 0.7 nights/week fewer (2 fewer to 0.6 more)	⊕○○○ ○ Very low	IMPORTANT
Withdrawal severity score @ 0-2 weeks post-taper (assessed with: PhWC, CIWA-B)												
2 ^{2,3}	randomized trials	not serious	not serious	not serious	very serious ^h	none	40	43	-	SMD 0.28 SD higher (0.15 lower to 0.71 higher)	⊕⊕○○ ○ Low	IMPORTANT
Anxiety score @ 2-week follow-up (assessed with: PSWQ)												
1 ³	randomized trials	not serious	not serious	not serious	serious ^f	none	27	26	-	MD 5.63 lower (9.72 lower to 1.54 lower)	⊕⊕⊕○ Moderate	IMPORTANT
Anxiety score @ 3-month follow-up (assessed with: PSWQ)												

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Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
1 ³	randomized trials	not serious	not serious	not serious	serious ^f	none	27	27	-	MD 6.11 lower (10.77 lower to 1.45 lower)	⊕⊕⊕○ Moderate	IMPORTANT
Persistence of GAD symptoms @ 2-week follow-up (assessed with: ADIS-IV)												
1 ³	randomized trials	not serious	not serious	not serious	serious ^f	none	11/31 (35.5%)	24/30 (80.0%)	RR 0.44 (0.27 to 0.74)	448 fewer per 1,000 (from 584 fewer to 208 fewer)	⊕⊕⊕○ Moderate	CRITICAL
Persistence of GAD symptoms @ 3-month follow-up (assessed with: ADIS-IV)												
1 ³	randomized trials	not serious	not serious	not serious	serious ^f	none	10/31 (32.3%)	18/30 (60.0%)	RR 0.54 (0.30 to 0.97)	276 fewer per 1,000 (from 420 fewer to 18 fewer)	⊕⊕⊕○ Moderate	CRITICAL
Persistence of GAD symptoms @ 6-month follow-up (assessed with: ADIS-IV)												

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Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
1 ³	randomized trials	not serious	not serious	not serious	very serious ^h	none	12/31 (38.7%)	16/30 (53.3%)	RR 0.73 (0.42 to 1.26)	144 fewer per 1,000 (from 309 fewer to 139 more)	⊕⊕○ ○ Low	CRITICAL
Sleep problem score @ end of taper (assessed with: Insomnia Severity Index)												
2 ^{1,3}	randomized trials	not serious	not serious	not serious	not serious	none	55	53	-	MD 2.04 lower (4 lower to 0.08 lower)	⊕⊕⊕⊕ High	IMPORTANT
Sleep problem score @ 3-month follow-up (assessed with: Insomnia Severity Index)												
2 ^{1,3}	randomized trials	serious ⁱ	not serious	not serious	serious ^d	none	55	53	-	MD 0.17 higher (2.04 lower to 2.38 higher)	⊕⊕○ ○ Low	IMPORTANT
Serious adverse events												

Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	CBT for Indicated Condition + Taper	Taper	Relative (95% CI)	Absolute (95% CI)		
1 ⁶	randomized trials	serious ^a	not serious	not serious	very serious ^h	none	0/35 (0.0%)	0/30 (0.0%)	RD 0.00 (-0.06 to 0.06)	0 fewer per 1,000 (from 60 fewer to 60 more) ^e	⊕○○○ ○ Very low	CRITICAL
Dropout												
5 ^{1,2,3,4,6}	randomized trials	serious ^a	not serious	not serious	serious ^d	none	7/120 (5.8%)	11/126 (8.7%)	Peto OR 0.51 (0.24 to 1.08)	80 fewer per 1,000 (from 160 fewer to 10 more) ^e	⊕⊕○○ ○ Low	CRITICAL

- 1 **ADIS-IV:** Anxiety Disorders Interview Schedule for DSM-IV; **CI:** confidence interval; **CIWA-B:** Clinical Institute Withdrawal
- 2 Assessment – Benzodiazepines, score range unclear, higher = more severe, physician and patient rated; **Insomnia Severity Index:**
- 3 score range 0-28, higher = more sleep difficulty; **MD:** mean difference; **PhWC:** Physician Withdrawal Checklist, score range unclear,
- 4 higher = more severe; **PSWQ:** Penn State Worry Questionnaire, score range unclear, scale direction unclear; **RR:** risk ratio; **SMD:**
- 5 standardized mean difference
- 6 **GRADE Working Group grades of evidence**
- 7 High quality: Further research is very unlikely to change our confidence in the estimate of effect.
- 8 Moderate quality: Further research is likely to have an important impact on our confidence in the estimate of effect and may change
- 9 the estimate.
- 10 Low quality: Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to
- 11 change the estimate.
- 12 Very low quality: We are very uncertain about the estimate.

- 1
 2 Note: significant heterogeneity $p < 0.10$. Note: significant heterogeneity $p < 0.10$.
 3 *Explanations*
 4 a. High risk of performance bias from lack of blinding for a majority of participants.
 5 b. Significant heterogeneity ($I^2=65%$, $p=0.06$). Two studies favor CBT + Taper (Baillargeon 2003; Gosselin 2006) and one study
 6 found no difference (Morin 2004).
 7 c. Significant heterogeneity ($I^2=74%$, $p=0.01$). Point estimates favor CBT+Taper in two studies (Gosselin 2006; Spiegel 1994) and
 8 Taper alone in two studies (Morin 2004; Otto 1993).
 9 d. 95% CI crosses the line of null effect.
 10 e. Absolute effect calculated from the risk difference due to zero events in one or both arms.
 11 f. Small sample size ($n < 100$).
 12 g. Significant heterogeneity ($I^2=67%$, $p=0.08$). Point estimates favor CBT+Taper in one study (Gosselin 2006) and Taper alone in one
 13 study (Morin 2004).
 14 h. Small sample size ($n < 100$) and 95% CI crosses the line of null effect.
 15 i. High risk of performance and detection bias for unblinded subjective measures for a majority of participants.
 16
 17 *Question*

Should CBT for Indicated Condition + Taper vs. Taper be used for patients discontinuing long-term BZD use?	
QUESTION	
POPULATION:	Patients discontinuing long-term BZD use
INTERVENTION:	CBT for Indicated Condition (e.g. CBT for Insomnia, CBT for General Anxiety Disorder) + Taper
COMPARISON:	Taper
MAIN OUTCOMES:	BZD discontinuation; Return to BZD use after a period of cessation; BZD dose; BZD frequency; Withdrawal severity score; Anxiety score; Persistence of GAD symptoms; Sleep problem score; Serious adverse events; Dropout
SETTING:	Any clinical setting where
PERSPECTIVE:	Patient-level

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CONFLICT OF INTERESTS:	None identified.
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1 *Assessment*

Problem Is the problem a priority?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		
Desirable Effects How substantial are the desirable anticipated effects?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 	CBT + Taper shows a benefit compared to Taper alone in a majority of critical and important outcomes. CBT + Taper increased BZD discontinuation rates and significant dose reductions, decreased the persistence/ of GAD, and may decrease return to BZD use after discontinuing. It also decreased the severity of anxiety symptoms and may decrease sleep problems. Taper alone may be slightly favored in decreasing withdrawal severity, but this is a very uncertain effect.	There are multiple timepoints for the same outcome (BZD discontinuation, Return to BZD use). However, all the timepoints favor CBT + taper over taper.
Undesirable Effects How substantial are the undesirable anticipated effects?		
Judgement	Research evidence	Additional considerations

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<ul style="list-style-type: none"> <input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 	<p>Neither intervention is favored in critical undesirable effects; no serious adverse events were reported. CBT + Taper is favored in one important negative effect; dropout was lower in the CBT + Taper group.</p>																						
<p>Certainty of evidence What is the overall certainty of the evidence of effects?</p>																							
<p>Judgement</p>	<p>Research evidence</p>	<p>Additional considerations</p>																					
<ul style="list-style-type: none"> <input checked="" type="radio"/> Very low <input type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #D3D3D3;"> <th>Outcomes</th> <th>Importance</th> <th>Certainty of the evidence (GRADE)</th> </tr> </thead> <tbody> <tr> <td>BZD discontinuation @ 0-4 weeks post-taper</td> <td>CRITICAL</td> <td>⊕⊕⊕○ Moderate^a</td> </tr> <tr> <td>BZD discontinuation @ 2-4 month follow-up</td> <td>CRITICAL</td> <td>⊕⊕⊕○ Moderate^a</td> </tr> <tr> <td>BZD discontinuation @ 12-14 month follow-up</td> <td>CRITICAL</td> <td>⊕⊕○○ Low^{a,b}</td> </tr> <tr> <td>Return to BZD use @ 3-month follow-up</td> <td>CRITICAL</td> <td>⊕⊕○○ Low^{c,d}</td> </tr> <tr> <td>Return to BZD use @ 6-month follow-up</td> <td>CRITICAL</td> <td>⊕⊕⊕○ Moderate^e</td> </tr> <tr> <td>Return to BZD use @ 12-month follow-up</td> <td>CRITICAL</td> <td>⊕○○○ Very low^{f,g}</td> </tr> </tbody> </table>	Outcomes	Importance	Certainty of the evidence (GRADE)	BZD discontinuation @ 0-4 weeks post-taper	CRITICAL	⊕⊕⊕○ Moderate ^a	BZD discontinuation @ 2-4 month follow-up	CRITICAL	⊕⊕⊕○ Moderate ^a	BZD discontinuation @ 12-14 month follow-up	CRITICAL	⊕⊕○○ Low ^{a,b}	Return to BZD use @ 3-month follow-up	CRITICAL	⊕⊕○○ Low ^{c,d}	Return to BZD use @ 6-month follow-up	CRITICAL	⊕⊕⊕○ Moderate ^e	Return to BZD use @ 12-month follow-up	CRITICAL	⊕○○○ Very low ^{f,g}	
Outcomes	Importance	Certainty of the evidence (GRADE)																					
BZD discontinuation @ 0-4 weeks post-taper	CRITICAL	⊕⊕⊕○ Moderate ^a																					
BZD discontinuation @ 2-4 month follow-up	CRITICAL	⊕⊕⊕○ Moderate ^a																					
BZD discontinuation @ 12-14 month follow-up	CRITICAL	⊕⊕○○ Low ^{a,b}																					
Return to BZD use @ 3-month follow-up	CRITICAL	⊕⊕○○ Low ^{c,d}																					
Return to BZD use @ 6-month follow-up	CRITICAL	⊕⊕⊕○ Moderate ^e																					
Return to BZD use @ 12-month follow-up	CRITICAL	⊕○○○ Very low ^{f,g}																					

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BZD dose reduced 50% or more @ 0-4 weeks post-taper	IMPORTANT	⊕⊕○○ Low ^{e,h}
BZD dose reduced 50% or more @ 3-month follow-up	IMPORTANT	⊕○○○ Very low ^{g,h}
BZD dose @ 0-4 weeks post-taper assessed with: mg diazepam equivalents	IMPORTANT	⊕⊕○○ Low ^{d,h}
BZD frequency @ end of taper	IMPORTANT	⊕⊕○○ Low ^{e,h}
BZD frequency @ 3 month follow-up	IMPORTANT	⊕○○○ Very low ^{g,h}
Withdrawal severity score @ 0-2 weeks post-taper assessed with: PhWC, CIWA-B	IMPORTANT	⊕⊕○○ Low ^g
Anxiety score @ 2-week follow-up assessed with: PSWQ	IMPORTANT	⊕⊕⊕○ Moderate ^e
Anxiety score @ 3-month follow-up assessed with: PSWQ	IMPORTANT	⊕⊕⊕○ Moderate ^e
Persistence of GAD symptoms @ 2 week follow-up assessed with: ADIS-IV	CRITICAL	⊕⊕⊕○ Moderate ^e
Persistence of GAD symptoms @ 3-month follow-up assessed with: ADIS-IV	CRITICAL	⊕⊕⊕○ Moderate ^e

Persistence of GAD symptoms @ 6-month follow-up assessed with: ADIS-IV	CRITICAL	⊕⊕○○ Low ^g
Sleep problem score @ end of taper assessed with: Insomnia Severity Index	IMPORTANT	⊕⊕⊕⊕ High
Sleep problem score @ 3-month follow-up assessed with: Insomnia Severity Index	IMPORTANT	⊕⊕○○ Low ^{d,h}
Serious adverse events	CRITICAL	⊕○○○ Very low ^{a,g}
Attrition/Dropout	CRITICAL	⊕⊕○○ Low ^{a,d}

Note: significant heterogeneity $p < 0.10$.

- High risk of performance bias from lack of blinding for most participants.
- Significant heterogeneity ($I^2=65%$, $p=0.06$). Two studies favor CBT + Taper (Baillargeon 2003; Gosselin 2006) and one study found no difference (Morin 2004).
- Significant heterogeneity ($I^2=74%$, $p=0.01$). Point estimates favor CBT+Taper in two studies (Gosselin 2006; Spiegel 1994) and Taper alone in two studies (Morin 2004; Otto 1993).
- 95% CI crosses the line of null effect.
- Small sample size ($n < 100$).
- Significant heterogeneity ($I^2=67%$, $p=0.08$). Point estimates favor CBT+Taper in one study (Gosselin 2006) and Taper alone in one study (Morin 2004).
- Small sample size ($n < 100$) and 95% CI crosses the line of null effect.
- High risk of performance and detection bias for unblinded subjective measures for most participants.

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Values		
Is there important uncertainty about or variability in how much people value the main outcomes?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ● Probably no important uncertainty or variability ○ No important uncertainty or variability 	<p>There was no evidence in the literature review about values and preferences of outcomes.</p> <p>Outcomes include BZD discontinuation, return to BZD use, BZD dose reduction, weekly BZD frequency, withdrawal severity score, recurrence/persistence of indicated condition (GAD), sleep problem score, and serious adverse events.</p>	<p>Likely variability across patient population but lack direct research evidence.</p>
Balance of effects		
Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison ● Probably favors the intervention ○ Favors the intervention 	<p>Both the desirable and undesirable effects favor CBT + Taper</p>	

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<ul style="list-style-type: none"> ○ Varies ○ Don't know 		
Resources required How large are the resource requirements (costs)?"		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ Large costs ○ Moderate costs ○ Negligible costs and savings ○ Moderate savings ○ Large savings ● Varies ○ Don't know 		
Cost effectiveness Does the cost-effectiveness of the intervention favor the intervention or the comparison?		
Judgement	Research evidence	Additional considerations

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<ul style="list-style-type: none"> ○ Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison ○ Probably favors the intervention ○ Favors the intervention ● Varies ○ No included studies 		
Acceptability Is the intervention acceptable to key stakeholders?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ No ○ Probably no ○ Probably yes ○ Yes ● Varies ○ Don't know 	Other evidence: An Australian survey done at pharmacies (Sake 2019) reported that 48 of 75 participants did not prefer behavioral therapies for various reasons which included: lack of confidence in behavioral therapies, lack of time, dependency on sleeping pill, participants' perception that behavioral therapies take longer to produce effect, perception that seeing a psychologist is costly, or other undefined reasons (participants were allowed to select multiple answers).	
Feasibility Is the intervention feasible to implement?		
Judgement	Research evidence	Additional considerations
<ul style="list-style-type: none"> ○ No ○ Probably no ○ Probably yes 	There have been multiple mentions that CBT is not accessible in all geographic locations. The availability of in-person high-quality CBT is likely low. Adequate training and experience of therapists is necessary. Online	

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<ul style="list-style-type: none"> <input type="radio"/> Yes <input checked="" type="radio"/> Varies <input type="radio"/> Don't know 	CBT resources are more easily available, but quality may be difficult to assess. Feasibility may vary on geographic location.	
--	---	--

1 *Summary of judgements*

PROBLEM	JUDGEMENT						
	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
RESOURCES REQUIRED	Large costs	Moderate costs	Negligible costs and savings	Moderate savings	Large savings	Varies	Don't know
CERTAINTY OF EVIDENCE OF	Very low	Low	Moderate	High			No included studies

	JUDGEMENT						
REQUIRED RESOURCES							
COST EFFECTIVENESS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	No included studies
EQUITY	Reduced	Probably reduced	Probably no impact	Probably increased	Increased	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

1

2 *Type of recommendation*

Strong recommendation against the intervention	Conditional recommendation against the intervention	Conditional recommendation for either the intervention or the comparison	Conditional recommendation for the intervention	Strong recommendation for the intervention
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

3

4 *Conclusions*

Recommendation
[13a] Patients undergoing BZD tapering should be offered, or referred for, behavioral interventions such as cognitive behavioral therapy (CBT).
Justification

The small size and high risk of bias in most studies evaluated mean the evidence of treatment effect is very uncertain. The evidence consistently showed a benefit of CBT + Taper compared to Taper alone in a majority of the critical outcomes and that the balance of desirable and undesirable effects probably favors CBT + Taper. The Committee acknowledges that there are potential limitations in patient acceptability and provider feasibility. Therefore, the recommendation is conditional.

1 References Summary

- 2 1. Baillargeon L, Landreville P, Verreault R, Beauchemin JP, Grégoire JP, Morin CM. Discontinuation of benzodiazepines
3 among older insomniac adults treated with cognitive-behavioural therapy combined with gradual tapering: a randomized trial.
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6 randomized trial of cognitive-behavioral therapy. *Journal of Consulting and Clinical Psychology*. 2006;74(5):908-919.
7 doi:10.1037/0022-006X.74.5.908
- 8 3. Morin CM, Bastien C, Guay B, Radouco-Thomas M, Leblanc J, Vallières A. Randomized Clinical Trial of Supervised
9 Tapering and Cognitive Behavior Therapy to Facilitate Benzodiazepine Discontinuation in Older Adults with Chronic
10 Insomnia. *AJP*. 2004;161(2):332-342. doi:10.1176/appi.ajp.161.2.332
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12 discontinuation in patients with panic disorder: Further evaluation. *Behav Res Ther*. 2010;48(8):720-727.
- 13 5. Otto MW, Pollack MH, Sachs GS, Reiter SR, Meltzer-Brody S, Rosenbaum JF. Discontinuation of Benzodiazepine Treatment:
14 Efficacy of cognitive-behavioral therapy. *Am J Psychiatry*. 1993;150(10):1485-1490.
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16 in panic disorder? *Am J Psychiatry*. 1994;151:176-881.

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1 Appendix F. Pharmacokinetic Properties of BZD

Benzodiazepine	Time to Peak Plasma Level (oral)	Relative Lipid Solubility	Onset of Action (min)*	Elimination Half-Life (h) (active metabolite)**	Metabolism***
Alprazolam	1-2 h (tablet or ODT) 5-11 h XR	Moderate	15-30	6-12	3A4
Chlordiazepoxide	0.5-4 h	Moderate	15-30	5-10 (36-200)	3A4
Clonazepam	1-2 h	Low	15-30	18-50	3A4
Clorazepate (hydrolyzed to nordiazepam in stomach)	0.5-2 h	High	15		Metabolite 2C19,3A4
Diazepam	0.5-2 h	High	≤ 15	20-100 (36-200)	1A2, 2C9, 2C19, 3A4
Estazolam	2 h	Low	30-60	10-24	3A4
Flurazepam	0.5-2 h	High	≤ 15	(40-250)	2C19, 3A4
Lorazepam	2-4 h	Moderate	15-30	10-20	Glucuronide conjugation
Oxazepam	2-4 h	Low	30-60	4-15	Glucuronide conjugation
Quazepam ²	2 h	High	15	39 (73)	2C9, 2C19, 3A4
Temazepam	2-3 h	Moderate	30-60	10-20	Glucuronide conjugation
Triazolam	1-2 h	Moderate	15-30	1.5-5	3A4

2

3 *Rapid onset of action associated with high lipid solubility as well as potential increased
4 potential for reinforcing properties and misuse

5 **Agents with moderate to high lipid solubility will have shorter duration of action with single
6 or intermittent doses than suggested by the elimination half-life as these medications distribute
7 rapidly into adipose tissue. With initial dosing, multiple daily doses may be needed to maintain
8 effect. With chronic use and repeated dosing, accumulation is more likely to occur with these
9 agents, especially those with long elimination half-lives (e.g., diazepam).³

10 ***Agents with glucuronide conjugation do not have pharmacokinetic interactions and are
11 considered to be safer in older adults and patients with hepatic impairment.

12 Sources:

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Glossary of Terms

<https://bit.ly/BZDCPG>

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2 Hogrefe Verlag GmbH & Co. KG; 2021. [https://elibrary.hogrefe.com/book/10.1027/00593-](https://elibrary.hogrefe.com/book/10.1027/00593-000)
3 000
- 4 2. Aronson JK. *Meyler's Side Effects of Drugs. The International Encyclopedia of Adverse*
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- 6 3. Dettli L. Benzodiazepines in the treatment of sleep disorders: pharmacokinetic aspects. *Acta*
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8

9

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1 **Appendix G. Guidelines for the Treatment of Underlying Conditions**

2 BZD are prescribed for a variety of conditions. In most cases, other pharmacological and
3 psychosocial interventions are more effective and associated with lower risk. This Appendix
4 includes references for clinical practice guidelines for these conditions that may be considered
5 before, during or after BZD tapering.

6 **Insomnia**

- 7
- 8 • Sateia MJ, Buysse DJ, Krystal AD, Neubauer DN, Heald JL. Clinical practice guideline
9 for the pharmacologic treatment of chronic insomnia in adults: an American Academy of
10 Sleep Medicine clinical practice guideline. *J Clin Sleep Med*. 2017;13(2):307–349.
 - 11 • Edinger JD, Arnedt JT, Bertisch SM, et al. Behavioral and psychological treatments for
12 chronic insomnia disorder in adults: an American Academy of Sleep Medicine clinical
13 practice guideline. *J Clin Sleep Med*. 2021;17(2):255–262.
 - 14 • Qaseem A, Kansagara D, Forcica M, Cooke M, Denberg TD; Clinical Guidelines
15 Committee of the American College of Physicians. Management of chronic insomnia
16 disorder in adults: a clinical practice guideline from the American College of Physicians.
Ann Intern Med 2016;165(2):125-33. Epub 2016 May 3.

17 **Anxiety/ Mood**

- 18
- 19 • Baldwin DS, Anderson IM, Nutt DJ, Allgulander C, Bandelow B, den Boer JA, *et al*.
20 Evidence-based pharmacological treatment of anxiety disorders, post-traumatic stress
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 - 23 • Gautam S, Jain A, Gautam M, Vahia VN, Gautam A. Clinical Practice Guidelines for the
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 - 26 • National Collaborating Centre for Mental Health (UK). Generalised Anxiety Disorder in
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 - 29 • Melaragno AJ. Pharmacotherapy for anxiety disorders: from first-line options to
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2 Practice guideline for the treatment of patients with panic disorder. *Am J Psychiatry*.
3 2009 Jan;166(2):1.

4 **PTSD**

- 5 ● Courtois CA, Sonis J, Brown LS, Cook J, Fairbank JA, Friedman M, Schulz P. Clinical
6 practice guideline for the treatment of posttraumatic stress disorder (PTSD) in adults.
7 *American Psychological Association*. 2017:119.
8 ● Schnurr PP, Hamblen JL, Kelber M, Wolf J. VA/DoD Clinical Practice Guideline for
9 Management of Posttraumatic Stress Disorder and Acute Stress Disorder. Department of
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12 **Seizure Disorders**

- 13 ● Kanner AM, Ashman E, Gloss D, Harden C, Bourgeois B, Bautista JF, Abou-Khalil B,
14 Burakgazi-Dalkilic E, Llanas Park E, Stern J, Hirtz D. Practice guideline update
15 summary: Efficacy and tolerability of the new antiepileptic drugs I: Treatment of new-
16 onset epilepsy: Report of the Guideline Development, Dissemination, and
17 Implementation Subcommittee of the American Academy of Neurology and the
18 American Epilepsy Society. *Neurology*. 2018 Jul 10;91(2):74-81.
19 ● Kanner AM, Ashman E, Gloss D, Harden C, Bourgeois B, Bautista JF, Abou-Khalil B,
20 Burakgazi-Dalkilic E, Llanas Park E, Stern J, Hirtz D. Practice guideline update
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25 **Pain**

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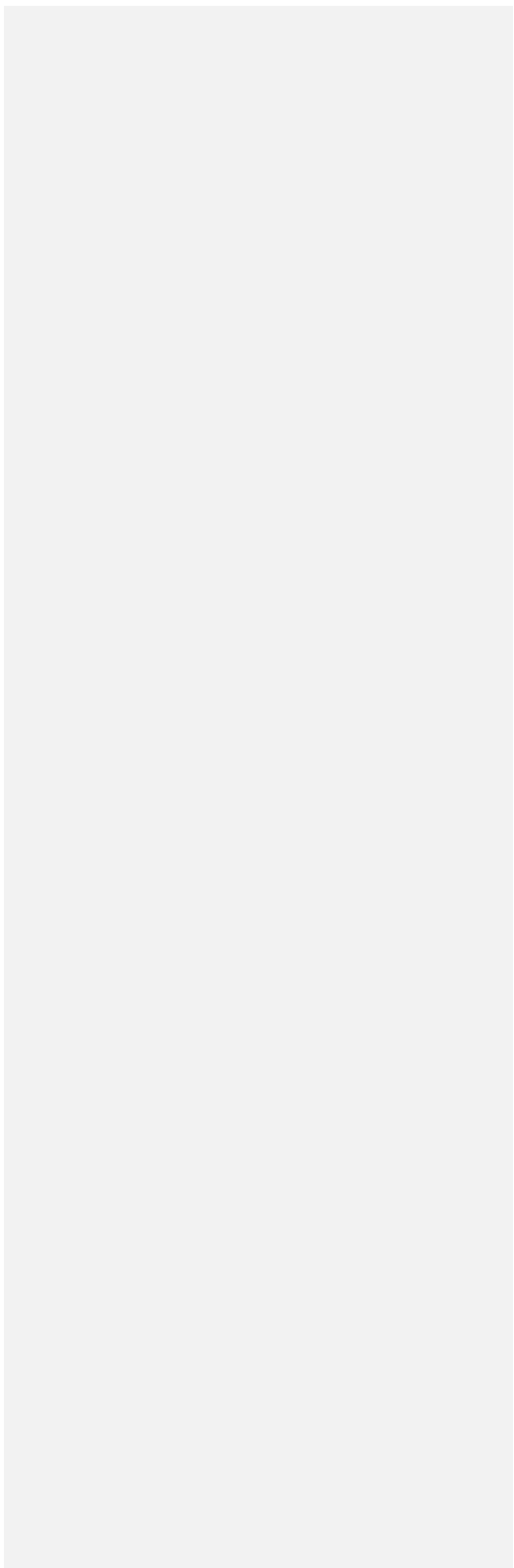
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Appendix H. Diazepam Dose Equivalents

Milligram oral dose equivalent to 10 mg diazepam

	ATC Therapeutic Class	WHO CCDSM*	VA/DoD CPG SUD 2021	Ashton Manual 2002
Diazepam	Anxiolytic	10	10	10
Alprazolam	Anxiolytic	1	1	0.5
Chlordiazepoxide	Anxiolytic	30	25	25
Clonazepam	Antiepileptic	8	1	0.5
Clorazepate	Anxiolytic	20	15	15
Lorazepam	Anxiolytic	2.5	2	1
Oxazepam	Anxiolytic	50	30	20
Estazolam	Hypnotic/ Sedative	3	1	1-2
Flurazepam	Hypnotic/ Sedative	30	15	15-30
Quazepam	Hypnotic/ Sedative	15	10	20
Temazepam	Hypnotic/ Sedative	20	15	20
Triazolam	Hypnotic/ Sedative	0.25	0.25	0.5

*The defined daily doses (DDDs) for the anxiolytics are based on the treatment of anxiety.

DDDs for the antiepileptics are based on combination therapy. DDDs for the Hypnotic/Sedatives are based on use of the drugs as hypnotics.

Sources:

1. WHO Collaborating Centre for Drug Statistics Methodology. ATC/DDD Index. Accessed May 11, 2024, https://atcddd.fhi.no/atc_ddd_index/?code=N05BA&showdescription=no?isPin=false
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3. Ashton CH. *Benzodiazepines: How They Work and How to Withdraw (The Ashton Manual)*. Benzodiazepine Information Coalition; 2002.
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 - Ashton, H. Benzodiazepine Equivalence Table [Online]. Revised April 2007. <https://www.benzo.org.uk/bzequiv.htm>
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Consider this table instead:

Table: BZRA Dose Conversion Chart based on Ashton, Clinical calculator

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<u>BZRA</u>	<u>Equivalent Dose</u> <u>(approximate)</u>	<u>Equivalency Range</u>
Alprazolam	0.25 mg	0.25 - 1 mg
Chlordiazepoxide	17 mg	6 - 25 mg
Clonazepam	0.25 mg	0.25 - 2 mg
Diazepam	5 mg	5 mg Reference benzodiazepine, dose
Clorazepate	7 mg	3.8 - 15 mg
Flurazepam	10 mg	3.8 - 15 mg
Lorazepam	0.75 mg	0.5 - 2 mg
Oxazepam	10 mg	2.5 - 20 mg
Phenobarbital	10 mg	8 - 30 mg
Quazepam	13 mg	8 - 20 mg
Temazepam	10 mg	2.5 - 20 mg
Triazolam	0.25 mg	0 - 0.5 mg

1

2 References:

3 Ashton H. The Ashton Manual: Benzodiazepines - How They Work and How to Withdraw. 2002.

4 Clin Calc: Equivalent Benzodiazepine Calculator. [Link](#)

5

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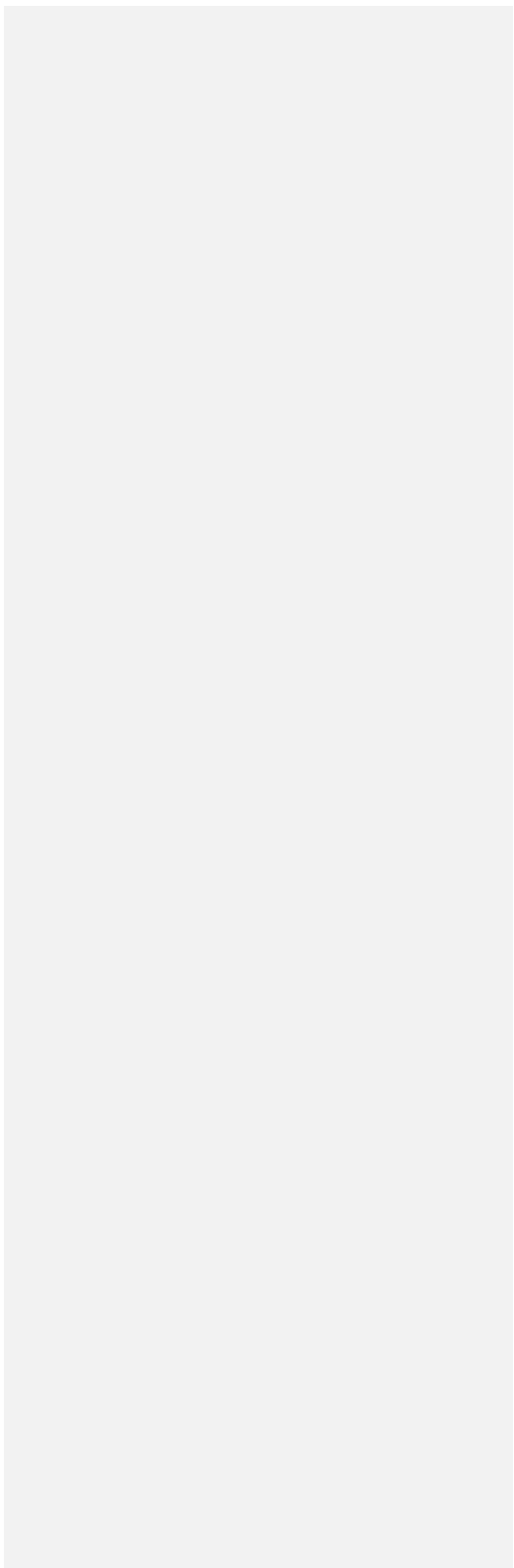
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1 **Appendix I. Sample Tapering Schedules and Case Descriptions**

2 **Tapering Case Descriptions**

3 This Appendix contains five case descriptions highlighting a variety of aspects of BZD tapering,
4 including patient engagement, considerations for tapering, tapering strategies, withdrawal
5 management, and population considerations. These cases are not meant to endorse specific
6 tapering schedules or protocols but are meant to illustrate how the recommendations in this
7 Guideline may be applied to a variety of clinical scenarios.

8

9 **Mr. Z**

10 Mr. Z is a 59-year-old male who has been taking 4 mg clonazepam per day for an unknown
11 number of years. He stated he was started on the medication “years ago” during a period of high
12 stress when he had lost his job and gotten divorced. You have an established relationship with
13 Mr. Z as his PCP treating him for hypertension and diabetes. Mr. Z’s psychiatrist recently
14 retired, leaving you to manage his psychiatric medication.

15

16 You engage Mr. Z in a discussion of his BZD medication. You express concern that his dose is
17 fairly high, especially considering his other medical conditions. He objects at first, stating that
18 his psychiatrist never saw a problem with the amount of medication he was taking. You educate
19 Mr. Z on the common risks of continued use, and you share that he may feel better taking less
20 medication. He states that he is afraid to stop taking the medication, because when he once
21 missed a dose, he experienced intolerable anxiety. You educate Mr. Z on withdrawal symptoms,
22 and that the symptoms he experienced when skipping a dose may have been withdrawal
23 symptoms. You assure Mr. Z that he will likely experience some withdrawal symptoms, but that
24 you will work with him to minimize these and make them tolerable. Mr. Z agrees to try tapering.

25

26 Prior to beginning the taper, you help Mr. Z locate a therapist to help with stress management.
27 You and Mr. Z agree that a small reduction from 4 mg to 3.5 mg per day would be the best place
28 to start, given the symptoms he experienced with missing an entire dose previously. Mr. Z
29 remains on this dose for a month with what he describes as “mild” sleep difficulty and anxiety.
30 After another few weeks, Mr. Z states he is ready to do another small reduction. Although it
31 takes about six months, Mr. Z is able to completely stop his BZD.

Commented [195]: None of these cases mentioned or modeled risk stratification, especially for the older adult. Please refer to “Step one: estimation of risk of withdrawal and corresponding size of the initial reduction” in The Maudsley Deprescribing Guidelines (Horowitz & Taylor, 2024), pages 350-352.

Commented [196]: None of these cases illustrate the difficult year-plus tapers with ongoing multi-year withdrawal symptoms that our medical team and affiliated BZD support organizations routinely encounter. They represent the majority who have little problem tapering, but not the 25% or so who suffer greatly.

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1

2 **Ms. D**

3 Ms. D is a 36-year-old female who has been taking 0.5mg alprazolam 3x/day for 3 years. She
4 was initially prescribed alprazolam for anxiety with panic attacks, but reports it is also helpful for
5 her irritable bowel syndrome, migraines, and menstrual cramps. She had not tried other
6 medication classes or therapy before starting alprazolam. Ms. D has previously received
7 medication from her gynecologist and gastroenterologist at separate times, and she is now
8 transitioning care to you as PCP. Ms. D is requesting an increase in her dose because she is
9 experiencing an increase in anxiety.

10

11 Given the potential harms associated with BZD, current guidelines are that they should be
12 reserved for treatment-resistant cases of anxiety disorders where other treatment options have
13 failed. For Ms. D, it would be best to try some other strategies with fewer associated risks to see
14 if they might be effective. You engage Ms. D in a discussion of the evidence-based treatment
15 options for her medical conditions, and share that BZD are not first-line treatments for these
16 conditions. You educate Ms. D about the risks associated with ongoing use of BZD, and you
17 assure her there are other pharmacological and non-pharmacological treatments that can be
18 helpful. You reassure Ms. D that you are committed to finding an approach that will treat her
19 symptoms, but that this process may take time. Ms. D is amenable to trying an SSRI and CBT
20 and to tapering from her alprazolam once the SSRI has been titrated to an effective dose for her.

21

22 Due to the potential difficulty in tapering from alprazolam (given its short half-life and lack of
23 active metabolites), you be.g.in by switching Ms. D to an equivalent dose of diazepam and
24 explain that a longer-acting medication will be easier to taper. While she is acclimating to the
25 new medication (7.5 mg [one and a half 5 mg tablets] 2x/day), you locate a CBT treatment
26 provider, and facilitate the referral. You also start Ms. D on sertraline to address symptoms of
27 anxiety as well as IBS and migraines. When the sertraline begins to show clinical effect, Ms. D
28 begins the tapering process and reduces her dose of diazepam to 7.5 mg morning and 5 mg at
29 night. You encourage Ms. D to share any withdrawal symptoms she is experiencing. Ms. D
30 successfully decreases her dose by 2.5 mg every two weeks for a month, but then begins to
31 experience increased withdrawal symptoms. You pause the After pausing the taper for another

Commented [197]: ?

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1 two weeks, she is ready to continue, and however when she has tapered to 2.5 mg daily dose, she
2 states her withdrawal symptoms are intolerable. In reviewing the risk benefit ratio, you decide to
3 maintain Ms. D on this dose until she is ready to consider tapering again.

4

5 **Mr. M**

6 Mr. M is a 75-year-old male who was prescribed lorazepam 2 mg at bedtime PRN for insomnia.
7 He does not recall when he was first prescribed the medication, but he remembers that his dose
8 was increased a few years ago when he was having more trouble sleeping after the loss of his
9 brother. He lives at home with his wife. Electronic records indicate that the patient is filling the
10 PRN prescription regularly, and Mr. M confirmed he is taking the medication daily.

11

12 Mr. M denies excessive daytime sedation. However, Mr. M's wife is concerned that his memory
13 is declining, and at times he seems confused and disorganized. You engage Mr. M in a
14 conversation about the relationship of BZD with cognitive impairment. Mr. M admits that he
15 feels "foggy" sometimes, but that he did not realize his medication could be the cause. He
16 confirms that he is willing to try tapering the BZD but worries that he will not be able to sleep.
17 You share with Mr. M that BZD are not intended to be used long-term for sleep . You reassure
18 Mr. M that there are other strategies that might even help him sleep better. Unfortunately, you
19 are unable to locate any providers who specialize in CBT-I, however you recommend a mobile
20 app CBT-I Coach that is recommended by the Veterans Administration and you provide
21 education on sleep hygiene strategies. You also provide education on withdrawal symptoms that
22 he might experience, and you encourage Mr. M to let you know right away if these symptoms
23 are intolerable.

24

25 Mr. M agrees to reduce his dose by 0.5 mg for one week by quartering tablets and taking $\frac{3}{4}$ of a
26 tablet. The goal is to reduce the overall dose down to a safer level and hopefully improve
27 cognition. After one week, Mr. M reports a few bothersome withdrawal symptoms, and says he
28 does not feel ready to reduce the dose any further. The following week, he reports fewer
29 symptoms, and agrees to try another reduction, this time reducing to $\frac{1}{2}$ tablet (dose = 1 mg).
30 After one month, Mr. M's wife reports that his memory seems to be improving. When he is due
31 for a prescription refill, 0.5 mg tablets are prescribed to allow for more dose flexibility. After a

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1 few more months, Mr. M’s dose is down to 0.5 mg at bedtime. Toward the end of the taper, you
2 slow the pace until Mr. M is ready to start skipping doses, and after a year is able to discontinue
3 the medication.

4

Ms. L

6 Ms. L is a 32-year-old female who is 8 weeks pregnant. She has been taking 10mg diazepam
7 2x/day for anxiety. She expresses a desire to taper from her BZD for the health of her baby,
8 although she is also concerned about how she will manage her anxiety during pregnancy.

9

10 You engage Ms. L in a discussion about the risks and benefits of continuing her BZD, as well as
11 alternative treatment options. You reassure her of treatment options to address anxiety that are
12 safe for her baby, including SSRI/SNRI. While educating Ms. L on SSRI/SNRI, you explain that
13 while these medications can cause neonatal withdrawal symptoms, these are generally less
14 severe and shorter duration compared to BZD-related neonatal withdrawal. You also provide
15 education on withdrawal symptoms and encourage her to let you know if they become
16 intolerable. Ms. L expresses high motivation to try SSRI medication and virtual therapy sessions
17 with a mental health provider, and taper from her BZD. You locate a referral for a therapist
18 skilled in CBT, and prescribe a course of escitalopram.

19

20 At 10 weeks, Ms. L initially reduces her midday dose to 7.5mg [one and a half 5mg tablets] and
21 continues to reduce by her dose every three weeks through the second trimester. At 24 weeks,
22 she has tapered down to 3 mg and reports increased withdrawal symptoms. You adjust the
23 tapering process to smaller and less frequent dose reductions, and by 34 weeks she has tapered
24 from the BZD medication completely. Ms. L delivers a healthy baby. You continue to follow
25 Ms. L closely to monitor for postpartum anxiety.

26

Mr. B

28 Mr. B is a 22-year-old male, who started using alprazolam he obtained from friends to “deal with
29 stress”. Mr. B then began purchasing BZD pills from websites. He has been taking BZD for
30 about 3 years and also drinking alcohol in combination with the BZD. He has a history of a
31 seizure in the context of prior withdrawal. Mr. B presents to a withdrawal management service in

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1 an ASAM Criteria Level 3.7 residential addiction treatment facility, requesting help with
2 tapering because he has tried stopping and is unable to do so on his own. He reports that he does
3 not have a PCP.

4
5 Mr. B meets criteria for a severe BZD use disorder. Because of his current estimated dose of
6 alprazolam (5-7.5 mg) and history of seizure, Mr. B is at risk for severe withdrawal. You would
7 not consider outpatient treatment for this patient due to safety concerns. You admit this patient to
8 the residential withdrawal management unit to be.g.in phenobarbital taper (See sample
9 residential (ASAM Criteria Level 3.7) protocol).

10
11 However, once admitted you conducted a drug screen that is positive for opioids. You suspect
12 Mr. B has been taking counterfeit alprazolam that are contaminated with opioids (including
13 fentanyl), and it is apparent he is also experiencing opioid withdrawal. The patient is transferred
14 to the hospital for management as management of BZD and opioid withdrawal concurrently is
15 likely to be more complex. Buprenorphine is initiated in the hospital along with a phenobarbital
16 taper. (See sample hospital (ASAM Criteria Level 4.0) protocol).

17
18 During discharge planning, Mr. B is offered ongoing care for SUD, and treatment options are
19 discussed. Mr. B states he prefers to be.g.in a residential treatment program, as his partner is
20 continuing to use substances, and is referred to a local program for SUD treatment and
21 management.

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Sample Residential (3.7) Protocol for Phenobarbital Taper*

- Do not start phenobarbital until it has been at least 8 hours after last BZD use
 - Patients with primarily alprazolam use may have significant withdrawal symptoms before 8 hours. If the patient has significant objective signs and symptoms of withdrawal, phenobarbital protocol can be started
- Consider the patient's risk for seizure and manage as appropriate
- If patient shows signs of oversedation, delay the following phenobarbital dose
- Although the phenobarbital protocol is only 6 days, the long half-life ensures the medication will continue to be active for several days afterward, resulting in an auto-taper

During first day, patient must be assessed at least every 4 hours for safety, even if this involves waking them up

DAY 1

- 64.8mg initial dose and then 32.4mg every 4 hours
- Depending on withdrawal symptoms, may add 32.4mg dose
- 226.8mg total scheduled; max dose 330mg

DAY 2

- 32.4mg every 4 hours
- Depending on withdrawal symptoms, may add 32.4mg dose
- 194.4mg total scheduled; max dose of 300mg

DAY 3

- 32.4mg every 6 hours
- Depending on withdrawal symptoms, may add 32.4mg dose
- 129.6mg total scheduled; max dose of 240mg

DAY 4

- 32.4mg every 8 hours
- Depending on withdrawal symptoms, may add 32.4mg dose
- 97.2mg total scheduled; max dose of 180mg

DAY 5

- 32.4mg q 12 hours
- Depending on withdrawal symptoms, may add 32.4mg dose
- 64.8mg total scheduled; max dose of 150mg

DAY 6+

- The patient may be discharged (or, for patients with SUD, transitioned to a less intensive level of care) when dose <60mg within 24 hours

***Disclaimer:** This is a **sample** protocol, and should not be interpreted as an exact recommended protocol

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- 1 **Sample Hospital (4.0) Protocol for Phenobarbital Taper***
- 2 • Administer a test dose of 64.8 mg PO phenobarbital
- 3
- 4 • Assess the patient 1 hour after dose to ensure no evidence of oversedation or intoxication
- 5
- 6 If test dose is tolerated, continue with the following phenobarbital taper schedule:
- 7
- 8 • 129.6 mg PO every 4 hours x 6 doses
- 9
- 10 • 129.6 mg PO every 6 hours x 4 doses
- 11
- 12 • 129.6 mg PO every 8 hours x 3 doses
- 13
- 14 Hold dose for oversedation or evidence of intoxication
- 15
- 16 After 72 hours, patient is safe to be discharged (and, for patients with SUD, transitioned to a less
- 17 intensive level of care) without additional phenobarbital or BZD.
- 18
- 19 Following BZD taper, may add valproate 500 mg PO BID 2-4 weeks for post-acute symptoms of
- 20 withdrawal and mood stabilization
- 21 ***Disclaimer:** This is a **sample** protocol, and should not be interpreted as an exact recommended
- 22 protocol.

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1 **Appendix J. Adjunctive Psychosocial Interventions**

2 This Appendix was created to support [Recommendation #12](#). Adjunctive psychosocial
 3 interventions should be offered when tapering BZD. This list is not meant to be exhaustive and
 4 partnering with community mental health providers is recommended to support to enhance
 5 patient success.

	Brief Description	Papers/Resources
Behavioral Interventions		
CBT ¹⁵⁷⁻¹⁶²	Cognitive Behavioral Therapy is a structured psychological treatment that helps to change thoughts, feelings, and behaviors, to treat a variety of problems.	CBT for Panic (Otto 2010; Otto 1993; Spiegel 1994) CBT for BZD Withdraw (O’Connor 2008; Oude Voshaar 2003) CBT for GAD (Gosselin 2006)
CBT-I ¹⁶³⁻¹⁶⁵	Cognitive Behavioral Therapy for Insomnia is a structured psychological treatment that helps to change thoughts, feelings, and behaviors that are contributing to insomnia.	Coteur 2022; Moring 2004; Baillargeon 2003.
Behavior Modification ²⁸	Behavior modification is a psychotherapeutic intervention used to eliminate or reduce unwanted behavior.	Pottie et al 2018
Mental Health Counseling	There are a variety of psychotherapy approaches used in practice. While the ones listed above have the most evidence for BZD withdrawal, other methods may be as or even more effective for specific patients. In general, any mental health provider that is comfortable addressing the reason for the initial BZD prescription as well as managing symptoms that may develop during the withdrawal process (e.g. anxiety, insomnia) will likely be helpful for the patient.	American Counseling Association National Association of Social Workers
Lifestyle Factors		

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Sleep Hygiene ^{74,163}	Sleep hygiene refers to environment and behaviors that are conducive to optimizing restorative sleep. These may include avoiding caffeine, stimulants, alcohol near bedtime. Along with setting up a night routine and sleep schedule that is conducive to good sleep.	Lahteenmaki 2013; Coteur 2022.
Exercise/Physical Activity ^{61,166}	Gentle exercise (e.g., walking or swimming) may be helpful. The Ashton Manual recommends regular moderate enjoyable exercise during a benzodiazepine taper.	Reconnexion. The Benzodiazepine Toolkit, 2018;p54. The Ashton Manual. 2002.
Diet ^{61,166}	Staying well-hydrated, eating a well-balanced diet, and eliminating caffeine and alcohol may be helpful.	Reconnexion. The Benzodiazepine Toolkit. 2018;p53. The Ashton Manual. 2002.
Complementary Health Approaches		
Mindfulness ¹⁶⁷	Mindfulness is a cognitive skill, usually developed through meditation, involving “two primary elements: focused attention and open monitoring” as described by Garland & Howard.	Garland EL, Howard MO. Mindfulness-based treatment of addiction: current state of the field and envisioning the next wave of research. Addiction science & clinical practice. 2018;13:1-4.
Acupuncture ¹⁶⁸	Yeung described acupuncture as “Acupuncturists insert fine needles at special acupoints on the body according to the traditional Chinese meridian theory. The inserted acupuncture needles can be connected by an electric-stimulator to deliver electric-stimulation and is termed as electroacupuncture.”	Yeung 2019 (Electroacupuncture).

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Progressive Muscle Relaxation ¹⁵⁷	Progressive muscle relaxation involves alternatively tensing then relaxing muscles, one by one.	Otto 2010
Anxiety Management Training ¹⁶⁹	Elesser described AMT as “Patients were asked to imagine unpleasant events which they had experience, concentrate on early signs of distress and counteract them with relaxation.”	Elsesser 1996
Peer Specialist Services		
Peer Support ^{29,170}	Primarily individuals with lived experience in mental health and/or substance use that provide support one-on-one or in a group setting, either in-person or through a virtual format to support the person going through the BZD taper.	National Institutes for Health and Care Excellence, 2022 Lynch et al., 2022

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1 **Appendix K. Adjunctive Pharmacological Interventions**

2 This Appendix was created to support [Recommendation #14](#). For patients experiencing
 3 symptoms that significantly interfere with the taper (e.g., sleep difficulty, anxiety symptoms),
 4 clinicians should first consider pausing or slowing the pace of the taper. [a] Clinicians can also
 5 consider adjunctive medications to address symptoms interfering with the taper.

6 **Table 1. Medications for Anxiety-related Conditions**

Medication	Class/ Mechanism	Considerations for Use	Other Population Considerations
Acute Anxiety			
Clonidine****	Central alpha-2 agonist	Avoid in hypotensive patients If used as scheduled medication, taper to discontinue	Monitor blood pressure, avoid in hypotensive patients
Gabapentin****	GABA analogue	Indicated for tremors Risk of being reinforcing	Avoid in patients with history of sedative use disorder Risk of combining with other medications, particularly opioids
Hydroxyzine*	Antihistamine	Avoid in first trimester of pregnancy or patients with history of QTc prolongation	Avoid in older adults, and pre- existing QTc prolongation
Propranolol****	Beta-blocker	Contraindicated in bradycardia, greater than first-degree block; avoid in uncontrolled bronchial asthma May be scheduled or dosed as needed for situational anxiety	Contraindicated in bradycardia, greater than first-degree block; avoid in uncontrolled bronchial asthma
Chronic Anxiety (GAD, Panic, PTSD, Social Anxiety)			
Bupirone**	5HT1A receptor agonist	Not effective as PRN agent	Only effective for GAD
SSRIs***	Antidepressant	May be anxiogenic upon initiation and dose increase. Start low and titrate slowly. Variable interactions with other medications	Consider potential interactions with other medications
SNRIs***	Antidepressant	May be anxiogenic upon initiation and dose increase. Start low and titrate slowly.	May help neuropathic pain; caution in

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		May increase blood pressure	uncontrolled hypertension
Mirtazapine*	Serotonin and norepinephrine modulator	Not FDA approved for treatment of anxiety disorders May be anxiolytic upon initiation.	More sedating than SSRIs/SNRIs, upon initiation
Prazosin****	Central alpha-1 antagonist	Approved for hypertension, but may be used off-label for PTSD related nightmares, not other symptoms of anxiety	Monitor blood pressure, avoid in hypotensive patients

1 *FDA approved

2 **FDA approved for GAD only

3 ***Variably approved for GAD, Panic, PTSD and social anxiety disorder

4 ****Not FDA approved for anxiety disorders

5 FOOTNOTE: Use in individual patients should always include review of medical and

6 medication history and individual prescribing information to assess for any relative/absolute

7 contraindications.

8 FOOTNOTE: Antidepressants (SSRI and SNRI) have black box warnings regarding suicidality,

9 especially in adolescents and emerging adults.

10

11

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1 **Table 2.** Medications for Insomnia-related Conditions

Medication	Class/ Mechanism	Considerations for Use	Other Population Considerations
Doxepin *	Antihistaminic tricyclic antidepressant	AASM approved for sleep maintenance insomnia ^{1,2} Caution in patients >65 or with coronary artery disease, arrhythmia	Avoid in patients with suicidal ideation/behavior
Diphenhydramine **			Avoid in older adults, may have paradoxical effects in children
Doxylamine **			Avoid in older adults, may have paradoxical effects in children
Hydroxyzine ****	Antihistamine		Avoid in older adults Avoid in first trimester of pregnancy or patients with history of QTc prolongation
Melatonin **	Sedative/Hypnotic		Avoid during pregnancy and breastfeeding; insufficient evidence of safety.
Ramelteon *	Agonist of melatonin receptors 1 and 2	AASM approved for sleep onset insomnia ^{1,2} Prone to significant interactions with CYP inhibitors and inducers	
Trazodone ****	Antidepressant	Use with caution in older adults and start with lower doses to avoid orthostasis	Use with caution in older adults and start with lower doses to avoid orthostasis

2 * FDA approved

3 **FDA approved (OTC)

4 ****Not FDA approved for insomnia

5

6 FOOTNOTE: Use in individual patients should always include review of medical and
 7 medication history and individual prescribing information to assess for any relative/absolute
 8 contraindications

9 FOOTNOTE: Non-BZD hypnotics. e.g. Zolpidem, are not recommended for patients with sleep
 10 issues who are undergoing BZD taper due to similar receptor action

11

12 Sources:

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- 1 **Appendix L. Pregnancy Related Considerations**
- 2 **Table 1. BZD Medication Considerations During Pregnancy and Lactation**

Medication	Does medication cross placenta?	Relative Infant Dose (RID)	Comments
Alprazolam	All benzodiazepines are expected to cross the placenta	2-9% ¹⁴⁶	Lorazepam is generally preferred in pregnancy and lactation due to lack of active metabolites and low RID
Chlordiazepoxide		Unknown	
Clonazepam		2.5-4.6% ¹⁴⁶	
Clorazepate		Unknown, shares metabolite with diazepam	
Diazepam		Up to 11% ¹⁷¹	
Estazolam		Unknown	
Flurazepam		Unknown	
Lorazepam		0.7% to 4.4% ¹⁴⁶	
Oxazepam		10-33% ¹⁷²	
Quazepam		0.2-2.5% Hilbert 1994	
Temazepam		Dose dependent 0-10% ¹⁷³	
Triazolam		Unknown	

3 *For optimal safety, target relative infant dose is <10%

4

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1 **Table 2. BZD Tapering Considerations by Pregnancy Trimester**

	1st Trimester	2nd Trimester	3rd Trimester	Post-partum
Potential Fetal Effects of Benzodiazepines	Minimal evidence of fetal malformations ^{174,175} Increased risk preterm birth (OR 1.38 to 1.48)		Increase risk preterm birth (OR 2.57), low birth weight (OR 1.89-3.41), cesarean delivery (OR 2.45), ventilatory support (OR 2.85)	Concern for withdrawal and potential fetal effects if high doses used during lactation
Potential Effects of Pregnancy on Benzodiazepines	Increased volume of distribution and CYP 2C19, 3A4, 2C9 metabolism (decreased effect) Decreased 1A2, 2C19 activity	Increased volume of distribution and CYP 2C19, 3A4, 2C9 metabolism (decreased effect); Decreased 1A2, 2C19 activity	Increased volume of distribution and CYP 2C19, 3A4, 2C9 metabolism (decreased effect); Decreased 1A2, 2C19 activity	Reversal of pregnancy changes – may increase effect ¹⁷⁶
Causes of insomnia	Nausea, urinary frequency, back pain	Fetal movements, heartburn, leg cramps, shortness of breath	Fetal movements, heartburn, leg cramps, shortness of breath	Infant care, pain
Considerations for tapering benzodiazepines	If alternative planned (e.g., SSRI) start alternative early to allow 6-8 weeks for effect before tapering BZD. Per above, BZD effect may decrease even before taper		Lowest dose possible to avoid neonatal withdrawal	Monitor sleep closely
Alternative medication for insomnia	Diphenhydramine	Antihistamines, trazodone	Antihistamines, trazodone	
Alternative medication for acute anxiety	Hydroxyzine*	Hydroxyzine	Hydroxyzine	Hydroxyzine
Alternative for severe chronic anxiety	SSRI	SSRI	SSRI**	Sertraline has lowest relative infant dose
Medications for anxiety or insomnia that are contraindicated	Propranolol	Propranolol	Propranolol	

2 *Limited data suggests possible low risk with first trimester use

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1 ** Possible increase in PPHN with number needed to harm of 1000

2

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