



UW PACC

Psychiatry and Addictions Case Conference

UW Medicine | Psychiatry and Behavioral Sciences

Tapering Patients off of Benzodiazepines

Joe Baldwin MD

PACC 11/1/2018



General Disclosures

The University of Washington School of Medicine gratefully acknowledges receipt of educational grant support for this activity from the Washington State Legislature through the Safety-Net Hospital Assessment, working to expand access to psychiatric services throughout Washington State.

Speaker Disclosures

- I have no disclosures to report

Objectives

1. Be able to identify patients that would benefit from tapering off of benzodiazepines
2. Become familiar with ways to engage patients in a benzodiazepine taper
3. Become familiar with effective outpatient benzodiazepine taper strategies

Benzodiazepines - Background

- Commonly prescribed for anxiety and insomnia
- Current clinical guidelines suggest short term duration of use
- Despite guidelines long-term use is common

Benzodiazepines by the Numbers

Table 1. Prevalence of Any Benzodiazepine Use, Long-term Benzodiazepine Use, and Use of Long-Acting Benzodiazepines by Sex and Age Group in the United States in 2008^a

Variable	Mean age, y, %			
	18-35	36-50	51-64	65-80
US Population				
With any benzodiazepine use, y	2.6	5.4	7.4	8.7
Among men	1.7	3.7	5.3	6.1
Among women	3.6	7.1	9.2	10.8
Among Persons With Any Benzodiazepine Use				
With long-term benzodiazepine use ^b	14.7	22.4	28.0	31.4
Among men	15.6	22.8	28.4	28.8
Among women	14.2	22.2	27.8	32.6
With any long-acting benzodiazepine use, y	24.1	25.4	25.4	23.8
Among men	26.9	29.5	29.4	27.1
Among women	22.7	23.3	23.4	22.4

Identification - Case

- A 26 year-old female presents to your office to establish care. She has a history of generalized anxiety disorder and denies other active medical complaints aside from a broken ankle that she recently went to an ER for. She reports that “most” medications give her brain-zaps and that her current medications are the only ones that she will take. Her current medication list includes clonazepam 1mg po BID, alprazolam 0.5mg po TID prn anxiety, and valium 5mg po QHS. You verify the above prescriptions with the prescriber monitoring program and she has gotten the above medications for > 1 year from multiple prescribers and also recently has received oxycodone from her recent ER visit.

Cues to Taper

- Multiple prescribers for controlled substances
- Use of opiates with benzodiazepines
- Pregnancy
- Length of benzodiazepine prescription
- Multiple benzodiazepine agents
- Unwillingness to try other interventions
- Early refills / escalating use
- Older age
- Worsening medical conditions
- Primary diagnosis is PTSD
- Alcohol abuse

Engagement - Case

- A 26 year-old female comes to your clinic to establish care. She has a history of GAD and has been on Sertraline 100mg po daily, alprazolam 1mg BID, and clonazepam 1mg po qhs for the last year. Her GAD7 is 1 (low anxiety score) and overall she feels that her anxiety is well treated aside from some afternoons. She has had some complaints about her performance at work which worries her as she is planning to have a child some time in the upcoming year.

Engaging the Patient

- Evaluate clinical need for use
- Evaluate for common side-effects: impaired memory, sedation, psychomotor effects
- Increased risk of accidents and injuries (especially in elderly)
- May increase risk for dementia
- May be exacerbating symptoms
- Pregnancy - cleft palate and neonatal withdrawal

Not Engaging is a Common Pitfall!

- Benzodiazepines are often started and not revisited for several months
- Providers can be reluctant to discuss tapering for multiple reasons
- Brief interventions do work - information pamphlets in Britain sent to patients taking benzodiazepines > 1 year had a 4x higher likelihood of ceasing benzodiazepine use
- Education in nursing homes is also effective!

Taper Agent Guidelines

- Substitution of agents rather than gradual dose reduction of a benzodiazepine has worse outcomes
- Goal is to achieve a predictable decline in blood levels
 - Consolidate to one agent
 - Scheduled rather than as needed
 - Convert to long-acting if able
- Dosage forms are important (Valium has a liquid form with 1mg/ml)

Benzodiazepine Comparisons

Oral benzodiazepines: Indications, onset, half-life, and equivalent doses

Drug	FDA-approved indication(s)	Onset of action	Approximate half-life (hours) in healthy adults	Approximate equivalent dose (mg) ^a
Alprazolam	Anxiety disorders, panic disorder	Intermediate	6.3 to 26.9 (IR), 10.7 to 15.8 (XR)	0.5
Chlordiazepoxide	Anxiety disorders, acute alcohol withdrawal, preoperative apprehension and anxiety	Intermediate	24 to 48	10
Clonazepam	Seizure disorders, panic disorder	Intermediate	18 to 50	0.25 to 0.5
Clorazepate	Anxiety, seizures, acute alcohol withdrawal	Fast	40 to 50	7.5
Diazepam	Anxiety disorders, acute alcohol withdrawal, muscle spasms, convulsive disorders	Very fast	20 to 100	5
Estazolam	Insomnia	Intermediate	10 to 24	0.3 to 2
Flurazepam	Insomnia	Intermediate	47 to 100	30
Lorazepam	Anxiety	Intermediate	10 to 20	1
Oxazepam	Anxiety, acute alcohol withdrawal	Slow to intermediate	5 to 20	30
Quazepam	Insomnia	Intermediate	39 to 73	5 to 15
Temazepam	Insomnia	Intermediate	3.5 to 18.4	30
Triazolam	Insomnia	Fast	1.5 to 5.5	0.25

IR: immediate release; XR: extended release

^aInterpret with caution, conflicting data exist

Taper Schedules

- Gradual dose reduction (10-25% increments) has been proven superior to abrupt cessation
- No consensus on rate - in general most tapers occur over 8-12 weeks and are tailored to the patient
- Dose changes often must be smaller later in the taper to avoid withdrawal
- Flexibility in dosing schedule is necessary to combat withdrawal symptoms

Taper Timeline Examples

Recommendations for tapering benzodiazepines

Duration of use	Recommended taper length	Comments
<6 to 8 weeks	Taper may not be required	Depending on clinical judgment and patient stability/preference, consider implementing a taper, particularly if using a high-dose benzodiazepine or an agent with a short or intermediate half-life, such as alprazolam or triazolam
8 weeks to 6 months	Slowly over 2 to 3 weeks	Go slower during latter half of taper. Tapering will reduce, not eliminate, withdrawal symptoms. Patients should avoid alcohol and stimulants during benzodiazepine withdrawal
6 months to 1 year	Slowly over 4 to 8 weeks	
>1 year	Slowly over 2 to 4 months	

Benzodiazepine Withdrawal

- Can cause seizures and be fatal if done abruptly
- Symptoms appear after 1-2 days for shorter acting agents and up to 8 days for longer acting agents
- Roughly 15-30% of patients will develop withdrawal symptoms after only 4-6 weeks of use

Withdrawal Symptoms

Table 3 Common withdrawal symptoms [120,125].

Psychological symptoms

Anxiety, possible terror and
panic attacks

Mood swings

Impaired concentration

Indecision

Nightmares

Bodily symptoms

Perspiration

Hot and cold flushes

Muscular spasms, twitches
cramps

Aches and pains

Numbness and tingling

Blurred vision

Loss of appetite and weight loss

Tachycardia

Dry mouth

Flu like symptoms

Perceptual symptoms

Increased sensitivity to touch

Tinnitus

Metallic taste in mouth

Increased sensitivity to light

Derealization (feelings of
unreality)

Agitation and
restlessness

Paranoia

Impaired memory

Dysphoria

Insomnia

Increased urinary
frequency

Headache

Stiffness

Fatigue and weakness

Electric shock sensations

Dizziness

Nausea and vomiting

Postural hypotension

Chest pain

Gastrointestinal problems

Increased sensitivity to
sound (hyperacusis)

Objects moving

Taste and smell
disturbances

Photophobia

Depersonalization

Additional Notes

- CBT in addition to gradual dose reduction has some modest benefit
- Overall evidence for pharmacotherapy is quite weak
 - Last Cochrane review in 2006 - withdrawn in 2013 given that it is out of date
 - Had mild support for carbamazepine for benzodiazepine cessation but evidence is weak and other studies have not showed statistical significance
 - Buspar largely found to be ineffective
 - Some evidence for and against SSRI's - again small effect sizes
 - Some evidence for melatonin withdrawal symptoms in patients with sleep disturbance

Take Home Points

- Talk to your patients on long-term benzodiazepines about continued use - don't wait for “red flags”
- Spend ample time to engage the patient about potential downsides of benzodiazepine use
- Gradual dose reductions of a single benzodiazepine tailored to the patient are the most effective way to achieve benzodiazepine cessation