

Assisting providers in the reduction of benzodiazepine utilization in Veterans with Posttraumatic Stress Disorder using an Academic Detailing framework

Veterans Health Administration Pharmacy Benefits Management Academic Detailing Service

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Outline







Introduction



Approach



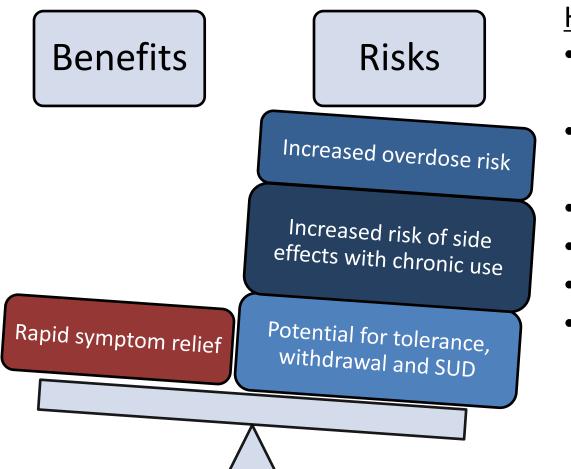
Results



Questions



Potential risks often outweigh benefits

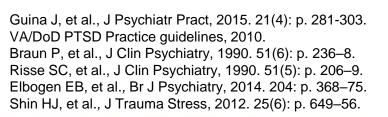


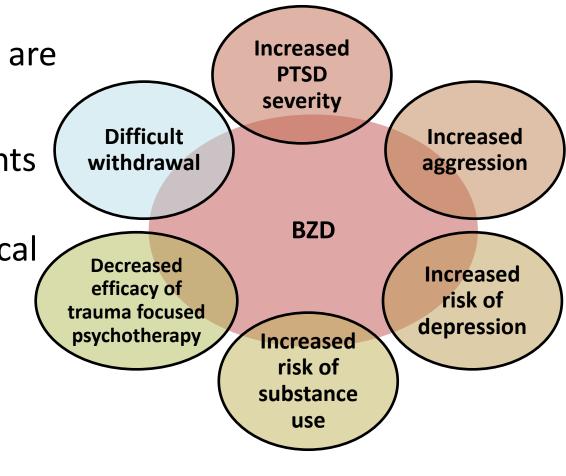
High risk populations

- Chronic respiratory disease
- Co-administered opioids
- Dementia
- Elderly (≥65 years)
- SUD
- Post-traumatic Stress
 Disorder (PTSD)



- Ineffective for treatment and prevention
- Any potential benefits are outweighed by risks
- 30% of VA PTSD patients had a prescription for benzodiazepines in fiscal year (FY) 2012





Academic detailing in reducing BZD use

- Lack of evidence to support AD in reducing BDZ prescribing in Veterans with PTSD
- Behavioral change interventions informed by theory have a higher likelihood of being effective
- Theoretical Domains Framework (TDF), developed using an expert consensus to simplify and integrate the various behavior change theories and to make the theory more accessible to and usable by other disciplines, was adapted for use by the ADS



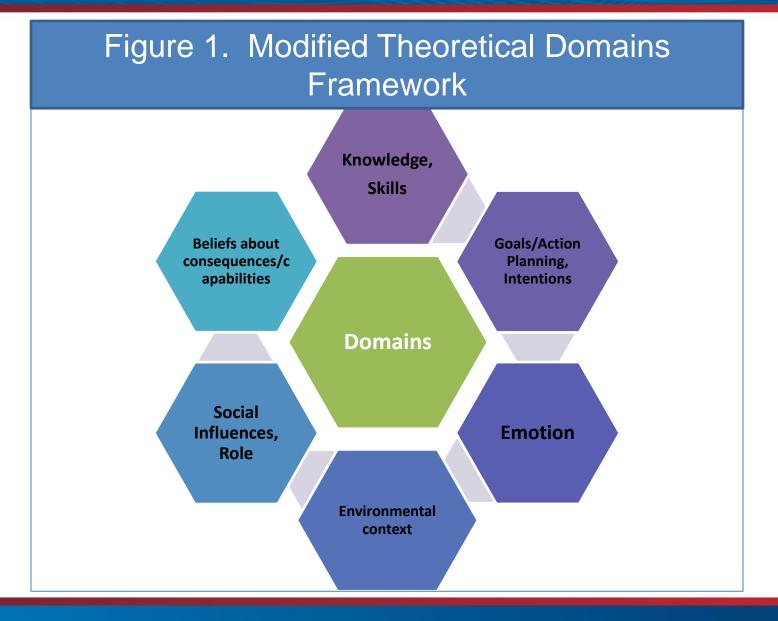
Aims

- Aim 1: To effectively and efficiently assess implementation problems in the field and inform AD resource development and training of detailers
- Aim 2: To evaluate AD's impact on aligning providers' prescribing behavior with clinical practice guidelines measured by the proportion of Veterans with PTSD receiving benzodiazepines

Aim 1: Informed detailing strategies

- Design: Randomized national survey distributed electronically based on a modified TDF
- Population: VA Providers who had prescribed benzodiazepines identified at 9 VHA facilities across 5 geographical districts in 2017
- The ADS survey included 24 items using a 7-point Likert scale (Strongly Agree, ..., Strongly Disagree)
- 5 knowledge-based multiple choice questions to determine if there was a correlation between how the providers scored themselves on the knowledge domain

Theoretical domain framework





Results

- In the survey analysis, a total of 953 BZD prescribers were selected from 9 geographically diverse facilities across VHA
- Response rate was 11.6% (n=111) of which 40.5% (n=45) were mental health providers, 39.6% (n=44) were primary care providers, and 19.8% (n=22) were categorized as Other

Table 1. Top 3 Domains by Provider-type		
Mental Health Providers	Role, Skills, and Knowledge	
Primary Care Providers	Role, Intentions, and Optimism	

Table 2. Domain versus knowledge-based question score

1 point increase in "Role" domain score	94% higher odds of correctly answering question on at risk population and treatment discontinuation with BZD (95% CI: 1.13, 3.32)
1 point increase in the "Optimism" domain score	36% higher odds of correctly answering the designing a taper schedule question (95% CI: 1.02, 1.82)

Areas of need- primary care

• Primary Care

Beliefs about capabilities

- Lack of confidence about tapering benzos in high risk Veterans if the Veteran isn't motivated to taper
- Skills
 - Not trained to recognize when a benzo taper is warranted

Environmental context

• Not enough time to calculate and recommend a benzo taper

Goals/action planning/intentions

- No clear plan on how to taper benzos in high risk Veterans
- No intention to discuss tapering a benzo with at least 1 patient in the next week

Mental Health

Social influences

• They believe that most people whose opinion they value would approve of them using benzos in Veterans with mental health disorders

Select strategies- primary care

- Data resources
 - High risk patient identification
 - Taper calculation
 - Mail merge for DTC



Benzodiazepines/ZDrugs

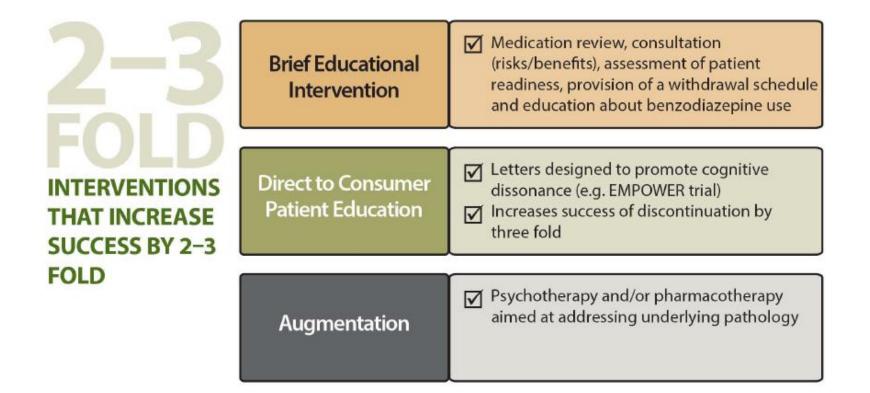
BZD Taper Calculator Version 2 EMPOWER Mail Merge Report (Guide Implementation) Patient Report Priority Panel Report

Please read: The below taper is newly generated each time from Week 1. This system is not intended for use in patients in mid-taper.

Taper Month	Prescription Data	Prescription Sig(s)	Total % Decreased	Select an agent to taper with Diazepam
Month: 1 Diazepam 2 mg #252 Days Supply: 28	Take 40 Stable (04 are) by exactly deity for 0 years	16	Select your available strengths	
	Take 10.5 tabs (21 mg) by mouth daily for 2 weeks	16	2 mg - Formulary - TAB	
	Days Supply: 28	Take 8.5 tabs (17 mg) by mouth daily for 1 week	32	
		Take 6.5 tabs (13 mg) by mouth daily for 1 week	48	
Month: 2 Diazepam 2 mg #182 Days Supply: 28		48		
	Diazepam 2 mg #182	Take 6.5 tabs (13 mg) by mouth daily for 4 weeks	48	
			48	
			48	



Evidence based interventions



Example academic detailing strategies

- Coaching AD on motivational interviewing
 - Who do they define as "high risk"
 - Skills to make conversation with the patient more successful
 - Elicit-provide-elicit (EPE)/ Feel Felt Found (FFF)
 - Discuss data about harms/risks
 - Discuss data around successful taper strategies
 - Share other successes and strategies used by their collogues
- Identify local champion(s)
- Resources developed to assist
 - Provider guide
 - Quick reference guide
 - Direct to consumer brochure
 - Patient education documents
 - Discussion guide

Alprazolam 1 mg	Temazepam 15 mg				
	15 mg				
12–15 hr	10–20 hr				
Benzodlazepine example dosage reduction and/or discontinuation**: • Switching to a longer acting benzodlazepine may be considered if clinically appropriate* • Reduce dose by 50% the first 4 weeks, maintain on that dose for 1–2 months, then reduce dose by 25% every 2 weeks					
• Reduce dose by 50% the first 4 weeks, maintain on that dose for 1–2 months, then reduce dose by 25% every					

(e.g. antidepressants for anxiety) should be considered if clinically appropriate

3. Provide written instructions for a structured medication taper. Be prepared to slow the taper if the patient reports significant withdrawal symptoms





U.S. Department of Veterans Affairs eterans Health Administration 8M Academic Detailing Service



Benzodiazepine Risks Are You Aware of the Possible Risks from Taking Benzodiazepines?

There are more effective and less harmful treatments available for sleep, nightmares, PTSD, pain and anxiety. Possible Risks





Feeling tired or drowsy



 Becomina dependent Withdrawal symptoms



 Overdose - especially when combined with alcohol, strong pain medications (opioids), street drugs

The deaths of Heath Ledger, Amy Winehouse, Michael Jackson, and Élvis Presley involved benzodiazepines

Memory and thinking problems

COPD and

sleep apnea may

get worse

Pneumonia



Depression,

mood changes,

irritability, anger

You can be

arrested for

Driving While

Impaired

Birth defects

Baby may

need emergéncy

care because

of withdrawal

symptoms

Car accidents

 Unsteady walkina Increased risk of falls. broken bones, or concussion

PTSD symptoms

may get worse





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Discussing Benzodiazepine Discontinuation er nationt's willingnose to discontinue or reduce the dose

1. Assess patient's willingness to discontinue or reduce the dose			
Action	Provider Response		
Express concern	"I would like to take a minute to discuss my concerns about (benzodiazepine name)."		
Provide education on potential risks	"Because of your [age or other risk factors], I am now concerned that the use of (benzodiazepine name) may put you at increased risk for [relevant repercussion]."		
Assess patient's readiness to begin taper process	"What do you see as the possible benefits of stopping or reducing the dose? What concerns do you have about stopping? What can we do together to help address these concerns?"		
	If patient indicates no desire to change, provide information handout. "What would be a reason you might consider changing from (benzodiazepine name) to (name of recommended alternative)?"		
Negotiate plan	"What changes are you willing to make to meet this goal?" "Would you be willing to talk to one of my colleagues to learn about options to support your changes?"		
2.Agree on timing and discuss the symptoms that can occur with benzodiazepine taper			
Inform patients	 Withdrawal is only temporary and not all patients will have symptoms Slowly tapering will decrease these symptoms Report distressing symptoms and if necessary adjust the rate of taper 		

3. Provide written instructions for a structured medication taper. Be prepared to slow the taper if the patient reports significant withdrawal symptoms.

Benzodiazepine Dosage Equivalents and Taper Schedules				
	Approx. Dosage Equivalents	Elimination Half-life (hours)	Example Taper: Lorazepam 4 mg bid (Convert to 40 mg diazepam daily)	
Chlordiazepoxide	25 mg	>100 hr	Milestones:	Week 1:35 mg/day
Diazepam	10 mg	>100 hr	<u>Week 2</u> : * dose by 25%	Week 2: 30 mg/ dáy (25% of initial dose)
Clonazepam	1 mg	20–50 hr	Week 4: * dose by 25%	Week 3: 25 mg/day
Lorazepam	2 mg	10–20 hr	<u>Weeks 5–8</u> : Hold dose 1 month	Week 4: 20 mg/day (50% of initial dose)
Alprazolam	1 mg	12–15 hr		
Temazepam	15 mg	10–20 hr	Weeks 9–15: * dose by 25% every two weeks	day for 1 month Weeks 9-10: 15 mg/day Weeks 11-12: 10 mg/day Weeks 13-14: 5 mg/day Weeks 15: Discontinue
Shorter taner (e.g. 3 months): Beduce dose by 50% the first 4 weeks then maintain on that dose for				

Shorter taper (e.g. 3 months): Reduce dose by 50% the first 4 weeks then maintain on that dose for 1-2 months then reduce dose by 5% every 2 weeks

Longer taper (e.g. 6 months): 10-25% every 4 weeks

Switching to a longer acting benzodiaxepine may be considered if clinically appropriate, in gentatric patients consider tapering the short acting agent until withdrawal symptoms are seen then switch to a longer acting agent; high dose alprazolam may not have complete cross tolerance, and a gradual switch diazepam or donazepam before taper may be appropriate; other treatment modalities should be considered (e.g. antidepressants for anxiety) if clinically appropriate.

1) Taylor D, The Maudaley Presenting Guidelines in Psychiatry 12th Edition. 2015, West Susses: Winy Blackwell. 2) Veterana Health Administration, Department of Defence. VA, Do D practice guideline for the management of substance use disorders. Version 3.0. Workington (DC): The Management of Substance Use Disorders: Working Group; 2015 January. 3) Vicens C., et al., Comparative efficacy of two interventions to discontinue long-term berandiazente use, cluster randomized controlled into impay care. Br JP: sychia by, 2014. 201: 471-9. 4) Vikander B., et al., Berzadiarepine tapering: A prospective study. Nord J Psychiatry 2010;64:273-82.

This reference guide was created to be used as a tool for VA providers and is available to use from the VA PBM Academic Detailing Service SharePoint Site: https://www.portal2.va.gov/sites/ad

October 2016

Aim 2: Program evaluation

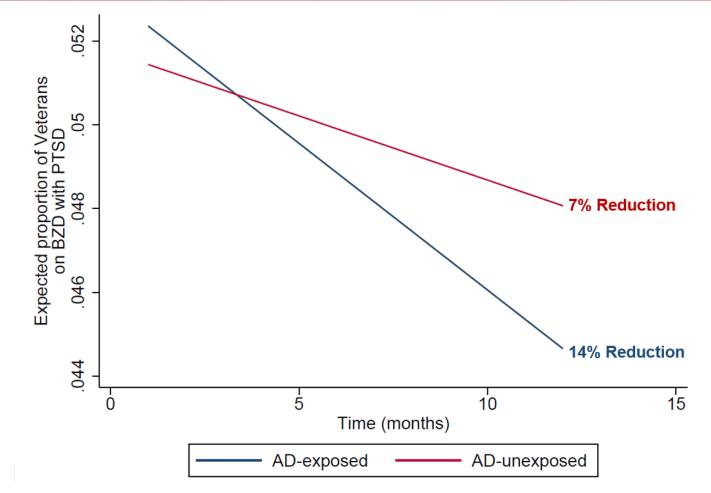
- A retrospective, repeated measures cohort study evaluating academic detailing's impact on BZD in PTSD patients from October 2015 to September 2016.
- VA providers were included if they prescribed BDZ for patients with a PTSD diagnosis from October 2015 to September 2016
- Compared the rate of change in the proportions of Veterans with PTSD prescribed a BDZ between providers who received an AD outreach visit and providers who did not receive an AD outreach visit (difference-in-differences estimation)



Table 2. Baseline demographic between providers who were exposed and not					
exposed to academic detailing.					
	AD-exposed	AD-unexposed	P-value		
Variables	(N=274)	(N=1,424)			
Age (years), mean (SD)	54.8 (9.3)	53.8 (10.1)	0.110		
Male, n (%)	182 (66.4%)	905 (63.6%)	0.365		
FTEE, mean (SD)	0.97 (0.15)	0.94 (0.19)	0.001		
Prior months worked, mean (SD)	136.0 (103.4)	132.0 (104.6)	0.559		



Results: Greater reduction in ad-exposed group

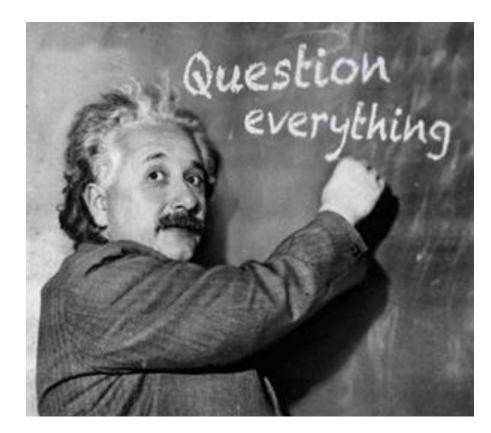


AD-exposed providers had a significantly greater rate of reduction in the proportion of PTSD Veterans with a BDZ from baseline compared to AD-unexposed providers adjusting for baseline characteristics (14% versus 7%, respectively; p=0.045).



- We did not take into consideration quality of the academic detailing educational outreach, local policy, and barriers to implementation and adoption of academic detailing
- Further analysis will need to focus on elements that had the greatest impact on outcomes
- First empirical evidence to report on the positive association between academic detailing and a reduction in the proportion of patients with BZD and a PTSD diagnosis







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VA PBM Academic Detailing Website

http://www.pbm.va.gov/PBM/academicdetailingservicehome.

<u>asp</u>



 $Proportion on BZD with PTSD diagnosis = \frac{Number of Veterans on BZD with PTSD diagnosis}{Total number of prescription unique with PTSD}$

AD-exposed providers had a 1% greater reduced odds of having BDZ compared to AD-unexposed providers across 12 months (95% CI: 0.01%, 2.0%)



Table 1. Survey Examples: Statements and Knowledge-based Questions				
I have experience tapering benzodiazepines.	Likert scale 1 = Strongly Disagree; 7 = Strongly Agree			
When tapering benzodiazepines, I am usually optimistic for a successful outcome for my patient.	Likert scale 1 = Strongly Disagree; 7 = Strongly Agree			
The idea of tapering benzodiazepines in some Veterans makes me feel worried, stressed, or afraid.	Likert scale 1 = Strongly Disagree; 7 = Strongly Agree			
Which of the following medications would you consider first line for the treatment of PTSD?	 a. Gabapentin b. Bupropion c. Buspirone d. Sertraline 			
Benzodiazepines are considered "relatively contraindicated" in which of the following disorders?	 a. Panic Disorder b. Generalized anxiety disorder c. Post-traumatic stress disorder d. All of the above 			