Deciphering Deprescribing: Navigating Reduction Strategies Across Psychiatric Disorders

Part 1: How long do people actually take medication?

Why do they stop?

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Learning Objectives

- Describe clinical situations in where discontinuing medication may be an appropriate choice.
- Demonstrate how to talk with patients about the decision to deprescribe medication and the informed consent principles of this conversation.
- Explain the pharmacokinetic principles involved in deprescribing a medication, particularly the concept of hyperbolic tapering.

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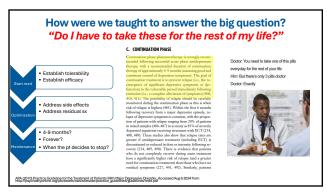




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Why not just keep people on meds indefinitely?

- Long term risks with:
 Antidepressants: withdrawal symptoms, sexual dysfunction, weight gain, emotional blunting, tardive dysphoria
 - Antipsychotics: metabolic issues/weight gain, prolactin elevations, tardive dyskinesia
 - · Anticholinergics: acceleration of cognitive decline?
 - Lithium: renal, thyroid issues, weight gain
 - $\bullet \ \textbf{Benzodiazepines}: with drawal \ symptoms, \ acceleration \ of \ cognitive \ decline?$

Plang, M. M., Tan, X., Zheng, Y. B., Zeng, N., Li, Z., Korowitz, M. A., Feng, Y. Z., Wang, K., Li, Z. Y., Zhu, W. L., Zhou, X., Tie, P., Zhang, X., Wang, Y., Shi, J., Ban, Y. P., Li, L., B. Li, S. X. (2024). Incidence and risk factorial properties of an additional symmetry of the control of

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Why do people stop meds? Reason Reason Long-term effects Adverse effects Wanted to know who I am Learned about alternative approach Felt better Drug not useful Drug did not work anymore Short-term use intended Concerned about reproductive health Advised to discontinue by prescriber Advised to discontinue by health care provider Many times, there's 177 175 115 82 81 70 54 31 30 19 74 73 48 34 34 29 23 13 13 8 5 more than one reason to consider deprescribing Bio-psycho-social factors are all often at Advised to disconnections No access to medications Advised by someone in personal life Other Item nonresponse play when a deprescribing decision is being made

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Ostrow L. et al. Psychiatric Services. 2017 December;68:12.

More reasons why people stop AD's "It worked, and I don't think I need it" "It didn't work, or there are too many side effects to want to continue. "I don't want to be dependent on meds." "Someone thinks I should stop, or I can't A. E., Harris, M. G., Heang, I., Sampson, N. A., Stein, D. I., Vilvas, M. C., Vigo, D. V., Wu, C. S., Aguiter-Gaviola, S., Alone, J., Benjer, C., Bruffants, R., Calder-Almelda, J. M., Carlson, G., Caselani, E., Chardoul, S., Cis, A., de Jooge, P., Gureja, D., Kasa, J. M., —Will-Health Survey, Exploration of Call Stein Strawy collaborators (2020), Patterns, prediction, prediction, and gather-reported reasons for a stickey-research discontinuation in the Wild-World Meetal Health Survey, Exploration of Call Stein Strawy, Exploration of Call Stein Stein Stein Strawy, Call Stein Strawy, Exploration of Call Stein Strawy, Call Straw, Call Stein Strawy, Call Straw, Call Straw,



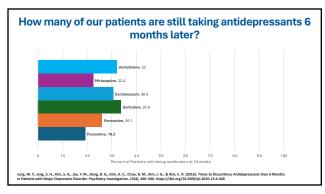
Making Space for Clients to Speak up. "Research suggests that clients hesitate to assert themselves in clinical encounters out of deference to clinician authority. It is not enough, therefore, to exhort psychiatrists to listen to their clients' preferences when they express them; rather, It may be necessary to train them to create explicit topenings articulate their, such as, for example, explicitly raising medications as a discussion topic."

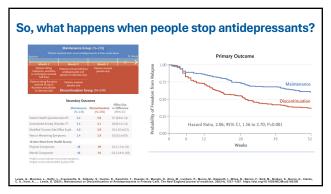
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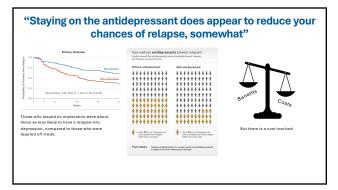
Without Trust Nothing Else Matters "To pursue the patient's good, the patient must trust the physician (or clinician, or organization) with private information and with his/her Expectant or presumptive trust: The predisposition a patient brings to a first encounter Experiential trust: Develops with knowledge of the one trusted over Trust in the healer is essential to healing itself. Trust, at least to some minimal extent, is undoubtedly a prerequisite to seeking care at all." Identification-based trust: An understanding based on a sense of shared values.

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body.







How many people get AD-withdrawal symptoms?

- 31% (95%Cl 20-35%) of people d/c AD report w/d symptoms
 - 17% (95%Cl 14-21%) of people d/c a placebo reported w/d symptoms
- 2.8% of people (1.4-5.7%) report
- evere w/d symptoms after d/c AD
 0.6% (0.2-1.3%) of people d/c a placebo reported w/d symptoms

15%

Henssler, J., Schmidt, Y., Schmidt, J., Schwarzer, G., Bishor, T., & Baethes, C. (2024). Incidence of antidepressant discording, 11(1), 526–535. https://doi.org/10.1016/S2215-0366(24)0133-0

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But, the worst offenders have the shortest half lives

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Is it withdrawal, or a return of symptoms? Return of Depression Irritability "Brain Zaps" (pa Severe anhedonia Dizzines Severe anergia Depressed mood Unable to control and Nausea Flushing/sweating Sensitivity to light , & Onton, J. A. (2018). Brain Zaps: An Underappreciated Symptom of Antidepressant Discontinuation. The primary care companion for CNS rs. 2009, 18m02311. https://doi.org/10.1088/PCC.18m02311. Favs. G. A. Benasi. G. Lucente, M. Offidani, E. Cosci, F. & Guidel, J. (2018). With master Servicion-Wadderstaffer Review. Psychotherapy and Psychosomstes, 874, 100. https://doi.org/10.1088/PCC.18m02311. Favs. G. A. Benasi. G. Lucente, M. Offidani, E. Cosci, F. & Guidel, J. (2018). With master Servicion-Wadderstaffer Review. Psychotherapy and Psychosomstes, 874, 100.

Antidepressant withdrawal can be debilitating and increase risk for SI

Subjective Experiences of Distress

It took me almost two years to get off Paroxetine and the side effects were horrendous. I even had to quit my job because I felt sick all the time. Even now that I am off of it, I still feel electric shocks in my begin (Bertlell & Dayie Regnan, 2008).

The difficulty of getting off has been a tough road and taken it years of trying and is something that doctors could be me knowledgeable of and supportive with. (Cartwright et al., 2016). I forgot to take my Citalopram for two days and woke up o morning with severe dizzines. It was so extreme that I fell or when I tried to get out of bed and I threw up, (Read, Cartwright).

The withdrawal effects if I forget to take my pill are severe shakes, suicidal thoughts, a feeling of too much caffeine in my brain, electric shocks, hallucinations, insane mood swings. kinda stuck on them now cox I'm too scared to come off it. (Gibson, Cartwright, & Read, 2016). The Table of the Control of the Cont

OR 1.61 (p=<.05) suicide risk in the two weeks after suddenly stopping AD, but all adjustment periods confer some risk

Davies, I., & Read, J. (2019). A systematic review into the incidence, severity and dustrion of antidepressant withdrawal effects: Any guidelines evidence-based?. Addictive behavior, 97, 111-121. http://doi.org/10.1016/j.c00040.00164.

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Let's call it what it is... withdrawal

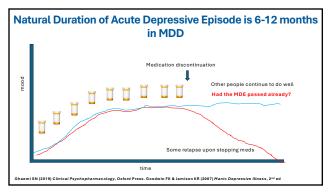
The term "discontinuation syndrome" has progressively replaced
"withdrawal syndrome" in the antidepressant literature. This shift was
heavily supported by the pharmaceutical industry and was aimed to
emphasizing that antidepressants do not cause addiction or dependence
and symptoms are substantially different from the phenomena that take
place with benzodiazepines [2, 78]. The term "discontinuation syndrome"
minimizes the vulnerabilities induced by SNRI and should be replaced by
"withdrawal syndrome."

- Fava et al., (2018)

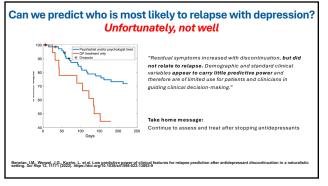
Eyes, S. A. Bensel, B. Lucorte, M. Officiari, E. Cocci, F., A. Quid, J. (2018). Withdrawal Symptoms after Servicionin-Noradrenaline Reuptake Inhibitor Discontinuations after Servicionin-Noradrenaline Reuptake Inhibitor Discontinuation

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How to measure withdrawal- the Discontinuation Emergent Signs and Symptoms Scale (DESS) **Total COOK, Proceeds notes of alone soon material to effective for the following section of the followin



Different Strokes for Different Folks: Large Variability is Found in Duration of Taper During Deprescribing About one-third (36%) chose to discontinue over a period of more than 6 months Another third (31%) did so in one to six months Athird (33%) in less than one month With half of this group (16% of the sample) choosing to do so "cold turkey" Often, success is achieved only by slowing down the process of deprescribing



And what if they do relapse?

- There is a greater possibility of relapse if off the med (compared to staying on it)
 - However, this risk is not massive
- If this happens, restart the medication that worked (ideally, sooner rather than later)
- Underscores the need for early relapse detection (engage the pt in this)



Kato, M., Hori, H., Incue, T., Ico, J., Iwata, M., Inagski, T., Shinohara, K., Imai, H., Mursta, A., Mishima, K., & Tajika, A. (2021). Discontinuation of antidepressants after remission with antidepressant medication in

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What about other conditions, like schizophrenia? "Overall, 74 percent of patients discontinued the study medication before 18 months (1061 of the 1432 patients who received at least one dose): 64 percent of those assigned to olanzapine, 75 percent of those assigned to perphenazine, 82 percent of those assigned to risperidone, and 79 percent of those assigned to risperidone, an

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Or Bipolar Disorder – a lot of people are stopping meds, largely without guidance "According to the definition of treatment adherence used in the study, combining the complete study of patients of the study of the study of the study of patients of the study of t

The "Deprescribing Process" A 5-Step Path to Success, shared with the pt Triggers to Deprescribe "Framework and Process to Deprescribe "Framework and Process to Deprescribe Step 3: Becomite 1. Adverse drug reactions 2. Polypharmacy 3. Prescribing 4. At end-of-life and as part of palliative care Step 4: The Deprescribing Process Step 4: The Deprescribing Process Step 4: Assess condidacy of individual medications

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Caution for the Deprescribing Clinician The Road Ahead May be Bumpy, So Bring Your Best A Game to the Table! Most frequent challenges with deprescribing: 1. Changes in sleep (N=181, 80%), 2. Increased anxiety (76%), 3. Difficulty with emotions (73%) 4. Sadness or tearfulness (70%) 5. Fatigue (69%) 6. Memory and concentration problems (61%) 7. Flu-like symptoms (62%) 8. Diarrhea or constipation (47%) Asked to rate the overall impact of withdrawal effects on daily activities (from 1, no impact, to 10, severe impact), 54% of respondents reported severe impact (mean=7, 163.1, range 1-10). Discontinuing psychiatric medication appears to be a complicated and difficult process, although most respondents reported satisfaction with their decision.

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Practical Tips: 7 Steps to Successful Deprescribing Step 1: Choose the right time • Avoid times of crisis or acute phase of illness • Ensure that the treatment alliance is well established • Use caution when the patient is actively abusing substances Step 2: Compile a list of all the patient's medications • Document dose, route, expected duration, and original indication • Document current therapeutic and adverse effects • Estimate potential drug-drug interactions and future risk-benefit ratio

Practical Tips: 7 Steps to Successful Deprescribing

Step 3: Initiate the discussion with the patient

- What is the patient's knowledge and attitudes about the medications?
- What is the patient's perception regarding the benefits and risks of each?
- Explore the meaning of medication(s) to the patient

Step 4: Introduce deprescribing to the patient

- Inform the patient about potential indications for and the process of deprescribing
- Solicit ideas, concerns, and expectations
- $\bullet \ \ \text{Address any anxieties on the part of the prescriber, patient, family, or clinical care team}$
- Get family and caregiver buy-in

Gupta S, et al. Psychiatric Services. August 2016;67:8.

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Practical Tips: 7 Steps to Successful Deprescribing

Step 5: Identify which medication would be most appropriate for a taper

- Collaboratively weigh pros and cons of deprescribing each medication
- Solicit the patient's preferences

Step 6: Develop a plan

- Set a start date and rate of taper
- $\bullet \ \ \text{Is a switch to another medication or formulation indicated?}$
- Reinforce alternative biopsychosocial strategies for addressing symptoms
- Inform the patient about expected and possible discontinuation effects and their timing
- Agree on a monitoring and follow-up schedule and crisis plan

Gupta S, et al. Psychiatric Services. August 2016;67:8.

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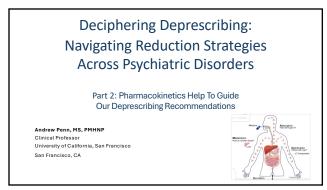
Practical Tips: 7 Steps to Successful Deprescribing

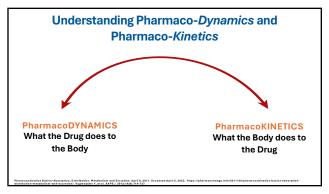
Step 7: Monitor and adapt, if necessary

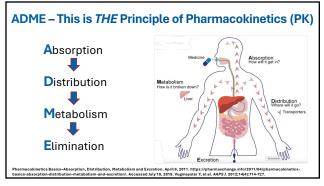
- Adjust rate of taper
- Treat discontinuation syndrome or relapse
- Abort or defer deprescribing

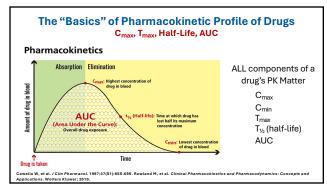
Have a plan but be *flexible* and *agile*.

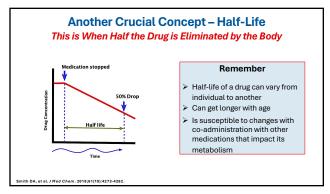
Gupta S, et al. Psychiatric Services. August 2016;67:8.

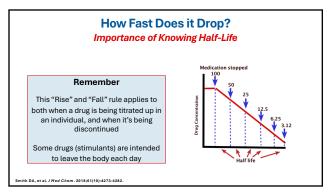














Practical Tips on Deprescribing of Common Psychotropics

- 1) Necessary?
- Ask if the med is still needed
- 2) Essential?
 - Ask if behavioral changes could be used in lieu of a med
- 3) Repeated?
 - Look for therapeutic redundancies that can be consolidated
- 4) Short acting?
 - See if short acting meds can be changed to long acting.
- Usually, gradual changes are more tolerable

Short half-life drugs are more challenging than long-acting
 Short half-life drugs are more challenging than long-acting
 Shatton R.D. Steps Following Attainment of Remission: Discontinuation of Antidepressant Therapy, Primary care companion to the Journal of cilinical psychiatry. 2001;3(4):168-174. Accessed April 5, 2023. https://doi.org/10.4088/pcc.v0300404. Pottie K, et al. Canadian Family Physician. 2015;8(4):139-131.

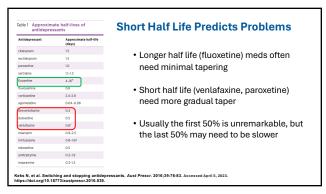
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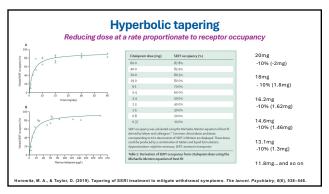
When and How to Deprescribe Antidepressants?

- First episode of depression, in remission for a 6-12 months?
- Engaged in behavior changes/therapy?
- Support system and plan in place?
- Sudden discontinuation:
 - Serotonergic AD's: Flu-like symptoms, headaches, nausea, dizziness, "brain zaps"
 - Meds with anticholinergic side effects cause cholinergic rebound when stopped (restlessness, diarrhea/GI distress/loss of appetite, insomnia)

Noradrenergic AD's are usually more forgiving (fatigue is common)
 Shelton R.C. Steps Following Affainment of Remission: Discontinuation of Antidopressor Therapy Primary care companion to the Journal of clinical psychiatry, 2001;3(4):168–174. Accessed April 5, 2023. https://doi.org/10.4088/pccv03n0404. Pottle K, et al. Canadian Family Physician. 2018;84:339-351







Two Tricks for Tricky Antidepressant Discontinuation Fluoxetine substitution taper: Take a modest (20mg) dose of fluoxetine for with the other other serotonergic antidepressant for 2-3 weeks The a week, continue fluoxetine while gradually reducing the other med over the course of 4-8 weeks. Then stop fluoxetine. It will fade out of the system. Tomag/d Tomag/d 37.5mg/d 37.5m

Shelton RC. Steps Following Attainment of Remission: Discontinuation of Antidepressant Therapy. Primary care companion to the Journal of Clinical Psychiatry. 2001;3(4):168–174. Accessed April 5, 2023. https://doi.org/10.4088/pcc.v03n0404

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Continue using, or switch to equivalent dose of available liquid AD's: Fluoxetine Citalopram Cacitalopram Paroxetine Reduce by the largest portion that does not result in w/d Or dissolve capsule contents in 100mL orange juice Drink 90mL's, discard rest Reduce by 5-10mL/week until stopped Or use compounding pharmacy or tapering strips

Prabhakar D, et al. Current Psychiatry. 2016;(t): Groot P (2020) The Pharmaceutical (current - https://pharmaceutical-journal.com/article/opinion/we-designed-a-new-way-of-tapening-antidepress anni-tur-why-wort-the-health-authorities-recognine-its-valus. Tapening-original

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Telehealth Services offer AD discontinuation Outro Antidepressants don't have to be forever Octo Is the first service for safe, exterior dragge extent tipering, designed by expert dischains and patients who've been these. Groot, P. C., & van Os, J. (2020). How user knowledge of psychotropic drug withdrawal resulted in the development of person-specific taparing wedication. Therapeutic advances in psychopharmacology, 10, 2045125320932492. https://www.cation.com/

Deprescribing Antipsychotics

- Usually not appropriate in schizophrenia (usually cross tapered, not stopped)
- Consider in bipolar pts who are on a mood stabilizer
- Consider in MDD once in remission
- Long term use of antipsychotics risks metabolic and movement
- Antipsychotic polypharmacy is often redundant (exceptions: low dose quetiapine for sleep + a full dose antipsychotic; low dose perphenazine + full dose atypical)
- Look for opportunities for consolidation/dose optimization

Pottie K, et al. Canadian Family Physician. 2018;64:339-351.

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What if we did short term Tx with SGA's and then withdrew them? Study: 18 weeks of Brexpiprazole augmentation, then half (N=28) switched to blinded placebo, the other half stays on brex. Primary outcome measure: time to relapse. Finding both groups were equal (About 29-25% relapsed over 10 weeks), relapse happening about 2 months (Gddays) later Clinical implications. Can we do short tem SGA administration of the stay of the st To revening misses are selected misses are producted and producted are selected and producted are selected as a selected are selected as a sel

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Deprescribing Anti-Cholinergics/Antihistamines

- If you're deprescribing an antipsychotic, don't forget to stop the
- anticholinergic
 Benztropine, Trihexyphenidyl
- Some antihistamines (diphenhydramine) are also anticholinergic
- \bullet Tricyclic antidepressants and low potency FGA's tend to be anticholinergic

- Anticholinergics can have significant SE:
 Physical: dry mouth, constipation, blurry vision
 Cognitive: risks of cognitive impairment (short and long term), risk of delirium
- Tapering is wise to prevent cholinergic rebound

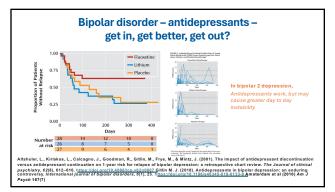
Pottie K, et al. Canadian Family Physician. 2018;64:339-351.

Deprescribing Lithium and Mood Stabilizers

- In some situations, deprescribing lithium and/or mood stabilizers is appropriate. Great skill is needed to assess if, and when, and how to do so
- · Caution! Ensure ongoing therapy is not indicated. If such therapy is needed, deprescribing is contraindicated
- Substitute treatment with another class of medications is almost always needed in ${\bf Bipolar\ Disorder\ (such\ as\ anti-psychotics).\ In\ such\ cases,\ cross\ taper\ gently\ and}$
- Finding substitute treatments for anxiety, or another condition the lithium or mood stabilizer is being utilized (consider pharmacological, non-pharmacological, or both options)

ottie K, et al. Canadian Family Physician. 2018;64:339-351.

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Deprescribing Benzos Begins When You Write Your First Rx

Benzodiazepines = Prednisone?

- Consider NOT starting a benzo (use CBT-I, SSRI instead)
- Start discontinuing benzo before you start prescribing it
 (set an expectation and schedule for tapering, like you would with prednisone)
 Example Sig:
 - - Lorazepam 0.5 mg 1 tab po QAM and 2 tab po QHS.
 After 3 weeks, reduce to 1 tab po BID.
 After 5 weeks, reduce to 1 tab PO QAM.
 - After 7 weeks, stop taking med.
 # 42 RF 0.
- · Favor scheduled doses over PRN's



How to Discontinue a Benzo: Long-term users

- Sudden withdrawal (especially daily high doses risks seizures and DT's)
- Consolidate to a single, long-acting drug (diazepam or clonazepam)

 • e.g. 2mg alprazolam = 40mg diazepam

 - Taper no more than 25% per month, slower (10%) if needed in patients who have been using benzos for a long time. This may take 6-12 months!
 - Consider adjunctive trazodone, SSRI, $\beta\text{-blocker}, \\ melatonin$

BENZODIAZEPINE EQ	JIVALENCI	TABLE
BENZODIAZEPINE / Z-DRUG	HALF LIFE	APPROX. EQUIVALENT
ALPRAZOLAM (KANAX)	6-12	0.5mg
CHLORDIAZEPOXIDE (LIBRIUM)	5-30	25mg
CLOBAZAM (ONFO	12-60	20mg
CLONAZEPAM (KLONOPIN)	18-50	0.5mg
CLORAZIPATE DIPOTASSIUM (TRANSEND)	36-200	15mg
DIAZEPAM (VALIUM)	20-100	10mg
LORAZEPAM (ATIVAN)	10-20	Img
TEMAZEPAM (RESTORIL)	8-22	20mg
ZALEPLON (SONATA)	2	20mg
ZOLPIDEM (AMBIEN)	2	20veg
ESZOPICLONE (LUNESTA)	6	3mg

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Benzodiazepines: How They Work & How to Withdraw (aka The Ashton Manual)

Medical Research Information from a Benzodiazepine Withdrawal Clinic

- Ashton Manual Index Page
- Contents Page
 Introduction
- Chapter I: The benzodiazepines: what they do in the body
- Chapter II: How to withdraw from
- benzodiazepines after long-term use

 Chapter II: Slow withdrawal schedules

 Chapter III: Benzodiazepine withdrawal
- symptoms, acute and protracted



Ashton CH. Benzodiszepines: How They Work and How to Withdraw (aks The Ashton Manual). Benzo.org.uk. Revised August, 2002. Accessed April 5, 2023. www.benzo.org.uk/manuallindex.htm.

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MDCalc has a somewhat different range

Equivalencies		BENZODIAZEPINE EQI	JIVALENC	E TABLE
Medication	Lorazepam Equivalents (mg)	BENZODIAZEPINE / Z-DRUG	HALF LIFE	APPROX.
Alprazolam	0.5	ALPEAZOLAM (KANAK)	6-12	0.5erg
Chlordiazepoxide	10-25	CHLORDIAZEPOXIDE (LIEBUM)	5-38	25mg
Clonazepam	0.25-0.5	CLOBAZAM (ONFO	12-60	20mg
Clorazepate	7.5	CLONAZEPAM ISLONOPINO	18-50	0.5mg
Diazepam	5	CLOBAZIPATI DIPOLANGIN (TRANSPRE)	36.700	15mg
Flurazepam	15			_
Lorazepum (immediate release)	1	DIAZEPAM (VALILIM)	29-109	10mg
Lorazepam (extended release)	1	TEMAZEPAM (RESTORIU	8-22	20mg
Oxazepam	15-30	ZALEPLON (SONATA)	2	20reg
Temazepam	15	ZOLPIDEM LAMBIENO	2	20rag
Triazolam	0.25	ESZOPICLONE (LUNESTA)	6	Jing

Take home message:

There may be some individual variance between patients due to differences in drug metabolism, incomplete cross-tolerance, etc.

Assess your patient frequently through this process and adjust as needed.

Harm Reduction

- Any appropriate reduction is progress
- Don't let the perfect be the enemy of the good
- It's more important that we get there eventually than it is that we get there quickly (in most cases)
- Be collaborative and creative
- Sometimes, patients find their own tools

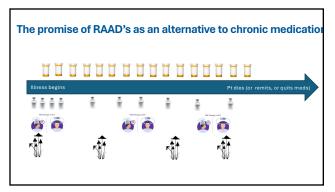


ning P. Practicing Harm Reduction Psychotherapy. Guilford; 200

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What About Substituting Cannabinoids? Narcolicalopiates Analopiates and Analo

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What's not known?

- How does treating depression episodically compare to chronic treatment?
 - What's the minimum amount of treatment needed to get MDD to stay in remission?
- What is the minimum duration of treatment with an SGA or lithium for depression augmentation that provides an enduring effect?



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 Psych meds, especially antidepressants and benzodiazepines can have significant withdrawal effects when stopped



 The decision to stop medications is a complicated one and should be engaged with a process of shared decision making between patient and clinician



 Pharmacokinetics allow us to predict the severity of withdrawal effects. However, withdrawal symptoms and dose have a hyperbolic relationship, requiring a very slow taper of some meds

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Deciphering Deprescribing: Navigating Reduction Strategies Across Psychiatric Disorders

Part 2: Pharmacokinetics Help To Guide Our Deprescribing Recommendations

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Deciphering Deprescribing: Navigating Reduction Strategies Across Psychiatric Disorders

Part 3: Deprescribing Practice Cases

Clinical Professor UCSF School of Nursing San Francisco, CA









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Somnolent Sam



- S8 year old man with history of depression and chronic early and middle insomnia. He also has low appetite as part of his depression
 - · Current meds:

 - Fluoxetine 20mg
 Trazodone 100mg
 - Doxepin 3mg PRN insomnia
 Zolpidem 5mg PRN insomnia
 - · Past med trials
 - Sertraline, eszopiclone, temazepam, flurazepam, quetiapine, bupropion none of which worked very well

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Somnolent Sam



- Goal: mirtazapine for depression and sleep
- Process: just add mirtazapine (with fluoxetine and sleeping meds) for now. Some redundancy with trazodone, but no major risks. Encourage holding PRN sleep meds unless needed. Refer to CBT-I if possible.
- 2 months later mirtazapine at 45mg, depression better addressed. Attempt d/c of fluoxetine (likely no taper needed, because of long half life and low dose, but if w/d sx occur, consider 10mg for a few weeks). Change temazepam to PRN. Attempt holding zolpidem and doxepin.

Aching Archie

- Archie is a 66 year old man with depression, anxiety, and sciatica pain who comes to you on the following:
- Current meds:
 - Escitalopram 10mg/d
 - Nortriptyline 30mg/d
 - Buspirone 10mg BID
 - Cyclobenzaprine 10mg BID

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Aching Archie



- Plan: reduce BEERS criteria meds, consolidate antidepressant/antinociceptive meds
- Process: either consolidate escitalopram and nortriptyline into a single SNRI (duloxetine, levominalcipran, desvenlafaxine, or venlafaxine OR increase TCA to an antidepressant level (usually 75-150mg and drop the escitalopram. If pain management improves, consider decreasing or stopping the cyclobenzaprine (anticholinergic)
- Given the pt's age, which would you consider first?

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Veronica Venlafaxine



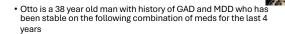
- Veronica is a 46 year old patient who started on venlafaxine 3
 years ago during a breakup for depression and anxiety. She is
 taking 225mg and would like to stop because she feels like her
 troubles are behind her. Stopped suddenly a few months ago and
 felt asthenic, nauseated, dizzy and had scalp paresthesias
- Currently taking 225mg venlafaxine ER

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- Reduced dose to 150mg, no problems
- Reduced dose to 75mg, no problems, mood continues euthymic
- Reduced dose to 37.5mg, started to feel "off"
- Returned to 75mg, and added 20mg of fluoxetine for 5 weeks
- Ordered 3x 25mg venlafaxine IR tablets and asked her to quarter them (6.25mg per quarter)
 - Reduce venlafaxine by 1/4 tablet each week (68.75>62.5>56.25>50>etc)
 - Continue the fluoxetine 20mg while reducing venlafaxine over 12 weeks
 Stop the fluoxetine (or consider a few weeks at 10mg if sensitive)

Odds and Ends Otto



- Current meds:
 - Buspirone 5mg TID
 - Gabapentin 300mg BID
 Sertraline 150mg Qday

 - Hydroxyzine 25mg BID PRN anxiety

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Odds and Ends Otto



- · Goal: simplification and consolidation
- Process: Peel back medications one by one to see if they are still needed. Lean hard on the SSRI and try to pull back the other ones.
- Process: think probabilistically about which medication is probably most helpful for both conditions (sertraline). Which is probably least helpful (buspirone, gabapentin, hydroxyzine). Pick one, reduce it slowly, monitor for changes. If needed, consider increasing sertraline to 200mg (optimize).

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- 44 year old woman with GAD and possible C-PTSD/borderline PD transferred to my care
- Current meds:
 - CITALOPRAM 50mg QAM
 BUPROPION 150mg QAM

 - HALOPERIDOL 2-3mg QHS
 HYDROXYZINE 25mg QID
 - AI PRAZOI AM 3-4mg/d





• 4mg alprazolam = **80mg diazepam**

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GABAbrielle



- Also smoking 1/8th oz of cannabis per week
- Pt reports that most mornings, she would wake with agitation, tremors, band-like headache, tactile and auditory hallucinations that would abate and hour or two after using cannabis and alprazolam.
- Pt abruptly stopped all medications on impulse and rapidly became psychotic and agitated, and had her first 5150

The case of GABAbrielle - my thinking



- She's going through benzodiazepine withdrawal (creating a delirium tremens-like presentation), cannabis withdrawal every morning as the alprazolam wears off
- Of course, she became agitated when she abruptly stopped all her meds
- Acute benzodiazepine withdrawal + labile personality style + possible psychosis = psychiatric emergency

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GABAbrielle Gets out of the hospital



- She was switched to the following regimen during a 4-day hospitalization. I saw her for the first time 1 day after discharge
- TOPIRAMATE 100mg QAM, 200mg QHS
- (she had been ramped up on this dose over 3 days)
- HALOPERIDOL 2mg BID
- DIPHENHYDRAMINE 50mg QHS
- HYDROXYZINE 25mg QID
- LORAZEPAM 1mg TID
- OLANZAPINE 5mg Q4 hours PRN agitation

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Let's practice a benzo conversion



- Was: 4mg alprazolam = **80mg diazepam**
- Now 3mg lorazepam = 30mg diazepam

Ashton CH. Benzodiazepines: How They Work and How to Withdraw (aka The Ashton Manual). Benzo.org.uk. Revised August, 2002. Accessed April 5, 2023. www.benzo.org.uk/manual/index.htm.

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- Pt presents as newly stuporous
 - (this was a somewhat highly functional, educated woman)
- difficulty following conversation
- still with highly labile mood
- Still very anxious (makes sense, given that she'd just had her benzo dose dropped by about 65%)
- Doesn't think the hydroxyzine does anything

My thinking about GABAbrielle now



- What a mess, but She'll never have nasal congestion or itching on that much antihistamine!
- She's stuporous because of the topirimate
 and to a lesser extent, all the antihistamines
- Topirimate is not a mood stabilizer
- While she's no longer in acute withdrawal from benzodiazepines, she's still had a big drop in dose.

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GABAbrielle: What happened next



- I d/c'd topirimate
- I started valproate 250 BID
- I changed **olanzapine** to 5mg QID PRN agitation
- I continued lorazepam 1mg TID
- I continued diphenhydramine 50mg QHS
- I decreased haloperidol 2mg QHS
- I discontinued hydroxyzine

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The case	of	Gabi	-	mν	thin	king
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- If her agitation is a bipolar mixed state, let's direct a sedating mood stabilizer/antipsychotic at it, rather than more disinhibiting benzodiazepines
- Valproate has anxiolytic and anti-impulsivity properties in addition to being a mood stabilizer, especially for a mixed state
- The topiramate is causing all negative side effects (stupor) and has no benefit, get rid of it
- If she's taking more olanzapine, she can take a little less haloperidol (we can deal with this one later prioritizing)
- Eventually, I want to switch her to clonazepam and do an ultra slow taper, but for tonight, let's just keep her out of benzo withdrawals, which are driving her distress and agitation
- Hydroxyzine if it's not helping, let's get rid of it.

GABAbrielle: what happened next



- Starts IOP quit, refused to return
 It reminded her of Al-anon, which her mother forced her to go to as a teen (trauma reaction)
 She only wants to see her outpatient therapist (idealizes her) and me
- 5 days after stopping topiramate, cognition is notably improved
- Continues to smoke cannabis, against medical advice. Refuses CD services.
- Continues to have a highly labile mood
- Benzodiazepine withdrawal symptoms seem to have improved
- Ambivalent about medications, Fiancé wants them, she does not.

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GABAbrielle: what happened next



- D/c'd olanzapine and haloperidol
- Started quetiapine 100mg QHS and 50mg TID PRN agitation
- Stopped lorazepam 1mg TID
- Started clonazepam 1mg BID

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ASHTON MANUAL BENZODIAZEPINE EQUIVALENCE TABLE				
BENZODIAZEPINE / Z-DRUG	HALF LIFE	APPROX.		
ALPRAZOLAM (KANAX)	6-12	0.5mg		
CHLORDIAZEPOXIDE (LIBRIUM)	5-30	25eeg		
CLOBAZAM (ONFO	12-60	20mg		
CLONAZEPAM (KLONOPIN)	18-50	0.5mg		
CLORAZEPATE DIPOTASSIUM (TRANSENE)	36-200	15mg		
DIAZEPAM (VALIUM)	20-100	10mg		
LORAZEPAM (ATIVAN)	10-20	leng		
TEMAZEPAM (RESTORIL)	8-22	20mg		
ZALIPLON (SONATA)	2	20mg		
ZOLPIDEM (AMBIEN)	2	20mg		
ESZOPICIONE (LUNESTA)		3mg		

- Was: 4mg alprazolam = **80mg diazepam**
- Was 3mg lorazepam = **30mg** diazepam
- Now 2mg clonazepam = 40mg diazepam

GABAbrielle: What happened next



- Fiancé took her to PES, she is admitted on another 5150 and 3 day hospitalization
- Attending doctor kept her on valproate 250mg QID, increased clonazepam to 1mg TID, added zolpidem 10mg QHS and sertraline 50mg QAM
- · She gets more hostile while in the hospital, sertraline is discontinued
- Pt fires her outpatient therapist for being in cahoots with me

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GABAbrielle: What happened next



- After 3 days in the hospital, she finally attends IOP
- Less labile and intense. Not hostile. More aware of her reactivity. Sleeping 11 hours per night. Recognizing unresolved grief about her mother's suicide.
- Hospital Discharge meds:
- Clonazepam 1mg TID
 Bupropion XL 150mg QAM
 Valproic acid 500mg BID
 Trazodone 50mg QHS
- Agrees to IOP, DBT. Agrees to a harm reduction approach to her cannabis use
- Kept her on same meds from discharge

Let's	practice	a benzo	conversi	ior



- Was: 4mg alprazolam = **80mg diazepam**
- Was 3mg lorazepam = **30mg diazepam**
- Was 2mg clonazepam = **40mg diazepam**
- Now 3mg clonzazepam = 60mg diazepam

and How to Withdraw (aka The A

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GABAbrielle: What happened next



- 2 days later, back for IOP, but still wants to leave
- Using less cannabis
- Mood stable, but more depressed.
- Decided to maintain valproate and treat depression with quetiapine
- Restarted quetiapine 50mg QHS
- Ordered a valproic acid level

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GABAbrielle: my thinking



- Keep her engaged in treatment, by hook or by crook!
- Quetiapine can be an effective bipolar antidepressant in at the 300mg/d dose
- If a mood stabilizer doesn't seem to be working, check that she's getting enough

GABAbrielle: what happened	next
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- VPA comes back at 27 (normal 50-125)
- Admits that she has been taking medication irregularly (waiting until she feels distressed before taking them), but thinks she was using the valproate fairly regularly.
- Increased valproate to 500/1000
- Next VPA level is 90.
- Graduates IOP and starts DBT

GABAbrielle: what happened next



- Using less cannabis
- Still feeling somewhat depressed
 - Increased bupropion from 150mg to 300mg/d
- She wants to start reducing clonazepam.
- She had already reduced (on her own) to:
 We decided to drop to 0.5 QAM/0.5mg QPM/1mg QHS
 - We dropped it to 0.5 TID
 - 2 weeks later, we decreased it to 0.5mg BID

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Let's practice a benzo conversion



- We decided to drop to 0.5 QAM/0.5mg QPM/1mg QHS
- (2mg clonaz=40mg diaz)
- We dropped it to 0.5 TID • (1.5mg clonaz = 30mg diaz)
- 2 weeks later, we decreased it to 0.5mg BID
 - (1mg clonaz = 20mg diaz)

Ashton CH. Benzodiazepines: How They Work and How to Withdraw (aka The Ashton Manual). *Benzo.org.uk*. Revised August, 2002. Accessed April 5, 2023. www.benzo.org.uk/manuat/index.htm.

GABAbrielle: what	happened	next
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- A month later, she continues to feel more stable. In DBT and individual therapy.
- Sleeping well wants to hold trazodone
- Long conversation about cannabis use, Pt's "all or nothing" dynamic is at play. We decided 12 step groups were too black and white and also too triggering given her childhood with alcoholic mother and al-anon.
- Also acknowledges that she uses cannabis as a "stopgap measure" for her anxiety

GABAbrielle: 5 months into treatment



- · Original meds
- Topirimate 100mg QAM, 200mg QHS
- Haloperidol 2mg QHS
 Diphenhydramine 50mg QHS
- Hydroxyzine 25mg QID
- Lorazepam 1mg TID
 Olanzapine 5mg Q4 hours PRN agitation
- · End of this episode meds

 - Valproic acid 500/1000
 Quetiapine 50mg QHS
 Bupropion XL 300mg QAM
 - Occasional Trazodone 50mg HS PRN
 - No benzos!

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Lessons learned



- Use medications that are proven to work for the underlying condition (which in this case was bipolar)
 YPR (evidence based) vs topirimate (poor evidence)
- Use therapy for things that will respond to it (in this case, crisis needed IOP and hospital level stabilization, her trauma-informed personality structures (borderline PD) needed DBT)
- If you can, check med levels
 Mood stabilizers, tryciclics
- · Cut out medications that don't help
- Push doses until it adds no additional benefit or becomes intolerable
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Lessons learned



- If you're going to use benzos, lean towards longer acting benzodiazepines
 Clonazepam, lorazepam, cliazepam, clorazepate (a pro-drug for desmethyldiazepam, which is the long acting active metabolite of diazepam)
- Avoid redundancies
 Haloperidol and olanzapine?
 Diphenhydramine and hydroxyzine?
- Use side effects to your advantage
- Make sure they are taking them!