

CURRENT APPROACHES IN THE TREATMENT OF ALCOHOL USE DISORDER (WITH A REVIEW OF CANADA'S GUIDANCE ON ALCOHOL AND HEALTH: FINAL REPORT)

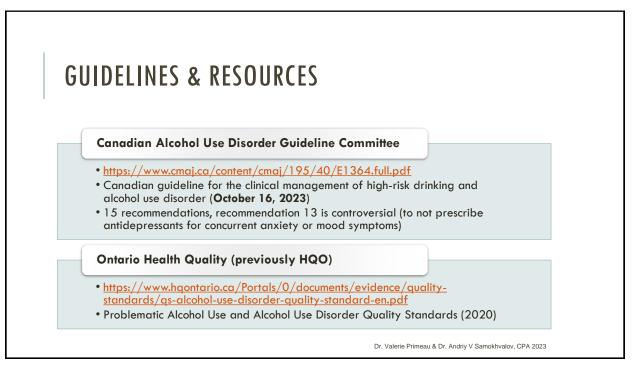
Dr. Valerie Primeau, MD FRCPC Dr. Andriy V Samokhvalov, MD, PhD, FRCPC

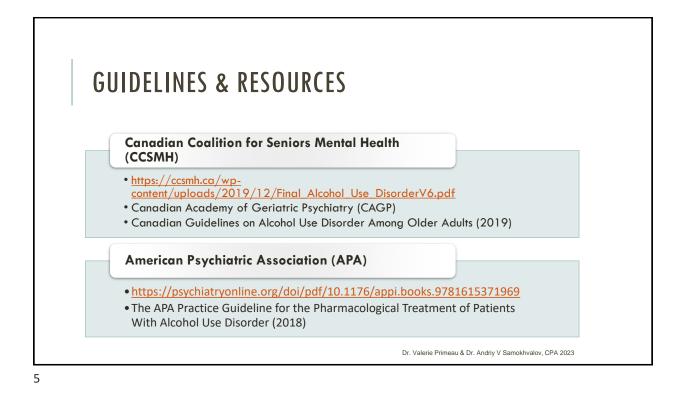
Email <u>vmdprimeau@gmail.com</u> for access to materials

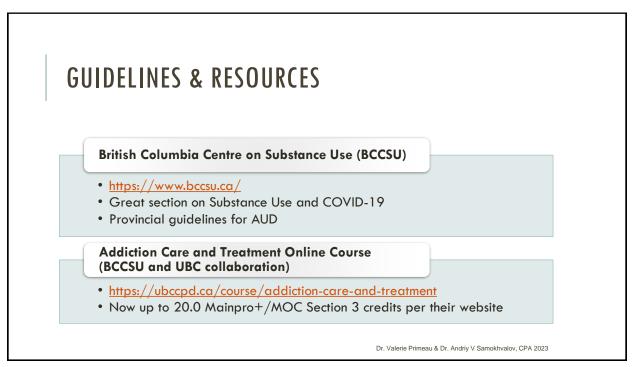
Full References Available Upon Request Canadian Psychiatric Association 2023



	OBJECTIVES
•	At the end of this session participants will be able to:
Describe	Describe the evidence-based medications used to treat alcohol use disorder (AUD), from acute withdrawal to community maintenance treatment;
Discuss	Discuss the new 2023 Canada's Guidance on Alcohol and Health: Final Report; and
Identify	Identify the importance of concurrent integrated treatment and recognize the impact of the COVID-19 pandemic on the prevalence and treatment of AUD.
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Alcohol is by far the most common drug used by Canadians

In Canada, there were around 77,000 hospitalizations entirely caused by alcohol in 2015–2016, compared to 75,000 hospitalizations for heart attacks in the same year

In 2002, alcohol was responsible for 4,258 deaths in Canada, representing 1.9% of all deaths

Alcohol use disorder (AUD) is the most prevalent Substance Use Disorder with a lifetime prevalence of 18.1% in Canada

As compared to before the COVID-19 pandemic, 23.3% of respondents reported drinking more alcohol compared to before the pandemic

Canadian Centre on Substance Use and Addiction Alcohol Canadian Drug Summary, Fall 2017 CIHR & CCSA 2020-2022 Figure 1 Crude rates for Hospitalizations Entirely Caused by Alcohol per 100,000 population age 10+, by age group and sex, 2015-2016



PREVALENCE IN YOUTH

By the time Canadian students are in the 12th grade, the majority of them are drinking alcohol

83% of 12th-grade students in Ontario admitted to drinking alcohol

49% confessing they binge drink



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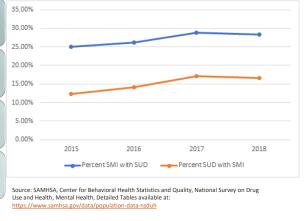
CO-MORBIDITY WITH MENTAL ILLNESS

Substance Use Disorders are highly comorbid with virtually all categories of psychiatric disorders, especially psychotic, mood, anxiety, ADHD and personality disorders

Lifetime prevalence of addictive disorder 29% (OR 2.7), 15% for drug disorder

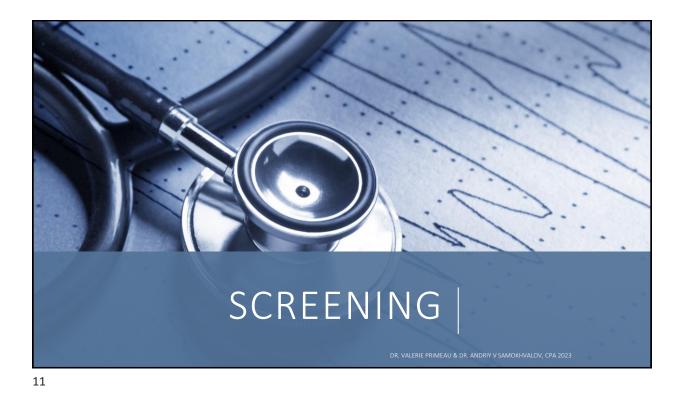
Odds are 7 times greater of developing both alcohol and drug disorders

53% of people with drug disorder have a mental disorder (OR 4.5)



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ECA study, 1988



SCREENING

Most common screening errors in our practice:

Not asking about alcohol use

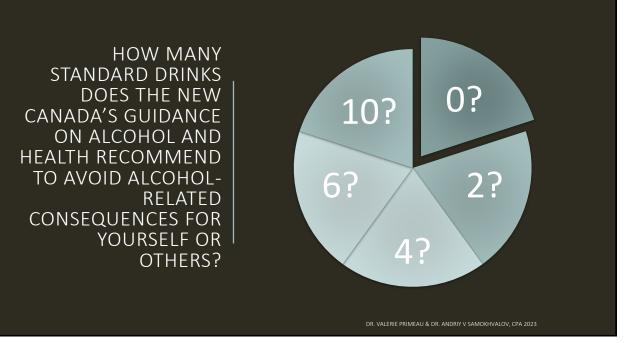
Accepting vague answers (e.g., "I just drink socially")

Not converting to standard drinks (most people pour large drinks at home)

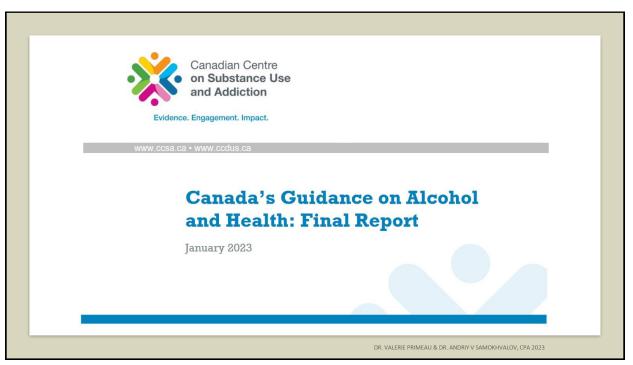
Missing binge consumption (many patients do not mention periodic heavy consumption when asked about "average" or "typical" drinking)

Not using a clinical scale to measure the impact of the drinking or to measure the cravings

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CANADA'S GUIDANCE ON ALCOHOL AND HEALTH (2023)

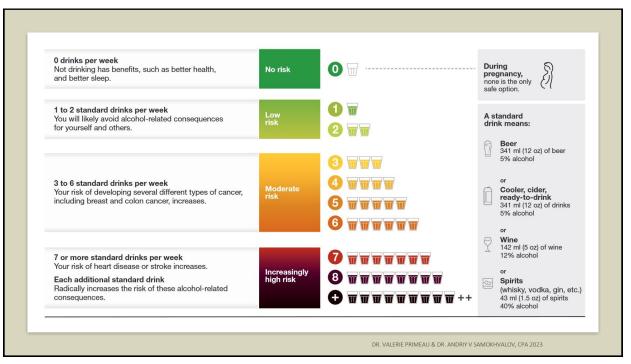
Key points from the guidance include:

•There is a continuum of risk associated with weekly alcohol use where the risk of harm is:

- 0 drinks per week Not drinking has benefits, such as better health, and better sleep.
 - **2 standard drinks or less per week** You are likely to avoid alcoholrelated consequences for yourself or others at this level.
 - **3–6 standard drinks per week** Your risk of developing several types of cancer, including breast and colon cancer, increases at this level.
- 7 standard drinks or more per week Your risk of heart disease or stroke increases significantly at this level.
- Each additional standard drink radically increases the risk of alcoholrelated consequences.
- Consuming more than 2 standard drinks per occasion is associated with an increased risk of harms to self and others, including injuries and violence.
- When pregnant or trying to get pregnant, there is no known safe amount of alcohol use.
- •When breastfeeding, not drinking alcohol is safest.

No matter where you are on the continuum, for your health, less alcohol is better.





Aim to drink less

Drinking less benefits you and others. It reduces your risk of injury and violence, and many health problems that can shorten life.

Here is a good way to do it

Count how many drinks you have in a week.



Set a weekly drinking target. If you're going to drink, make sure you don't exceed 2 drinks on any day.

Good to know

You can reduce your drinking in steps! Every drink counts: any reduction in alcohol use has benefits.

It's time to pick a new target

What will your weekly drinking target be?



Tips to help you stay on target

- Stick to the limits you've set for yourself.
- Drink slowly.
- Drink lots of water.
- For every drink of alcohol, have one non-alcoholic drink.
- Choose alcohol-free or low-alcohol beverages.
- Eat before and while you're drinking.
- Have alcohol-free weeks or do alcohol-free activities.

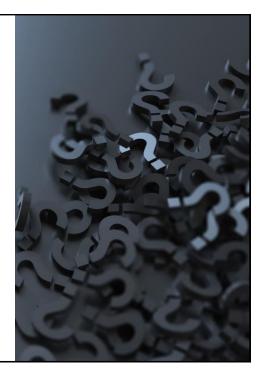
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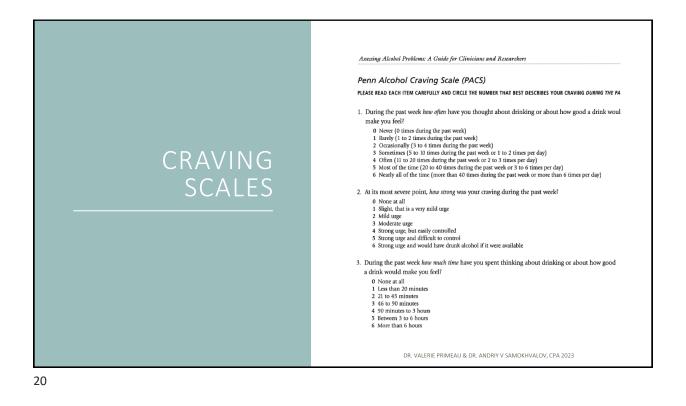
	ample interview questions for DSM-5-TR criteria sis of alcohol use disorder	
Diagnostic criterion*	Question: "In the past year"	CAGE Questionnaire
1	DId you drink more or for a longer time than you had originally planned to?	
2	Did you try to cut back or stop drinking, but weren't able to?	Have you ever felt you needed to C ut down on your drinking?
3	Did you spend a lot of your time drinking or recovering from drinking?	
4	Were you so preoccupied with wanting a drink that you found it hard to think about anything else?	
5	Did you have a hard time doing your job properly or going to school because of alcohol? Taking care of your family and home?	Have people A nnoyed you by criticizing your drinking?
6	Did you keep drinking even though you knew it was causing problems in your relationships?	
7	Did you give up on activities or hobbies, or seeing friends because of drinking?	Have you ever felt Guilty about drinking?
8	Did you get into dangerous situations more than once because of your drinking? Such as drinking and driving, unsafe sex, other situations where you could have been hurt?	have you even left durity about animking.
9	Did you keep drinking even though it was making you feel depressed or anxious, or making a physical health problem worse?	Have you ever felt you needed a drink first thing in the morning
10	Did you feel tense and anxious because it takes more drinks than it did in the past to feel Intoxicated? Do you find that drinking the same amount as in the past doesn't relieve your stress or have the same effects?	(Eye-opener) to steady your nerves or to get rid of a hangover? Two "yes" responses indicate that the possibility of alcoholism should be investigated further
11	Did you ever have shaky hands, sweats, anxiety, hearing voices, nausea or a seizure, hours after you'd stopped drinking? Do you ever have a drink to prevent those symptoms from happening?	
Edition, Text R	TR = Diagnostic and Statistical Manual of Mental Disorders, Filth evision. ¹¹ numbered DSM-5-TR diagnostic criteria for alcohol use disorder. ¹¹	

SCREENING

Alcohol Use Disorders Identification Test (AUDIT) developed by WHO

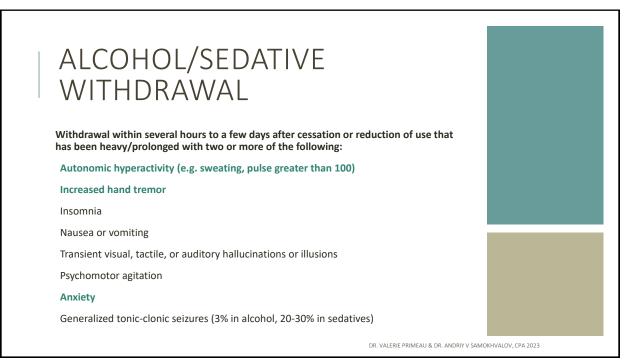
- 3 subsections comprising: hazardous alcohol use (3 questions), symptoms of dependence (3 questions), and harmful alcohol use (4 questions)
- Each question is scored on a 4-point scale, for a total of 40 points, with higher ratings related to higher risk for alcohol related problems
- Scores ranging between 8 and 15 (medium risk for alcohol related problems) are usually targeted by a brief intervention
- Scores of 16 to 19 may be indicative of hazardous use of alcohol, while scores above 20 are concerning for alcohol dependence



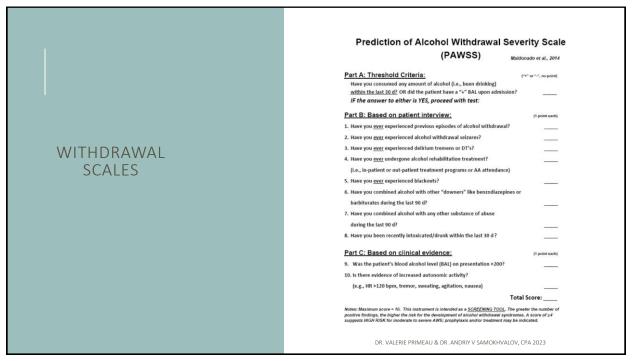


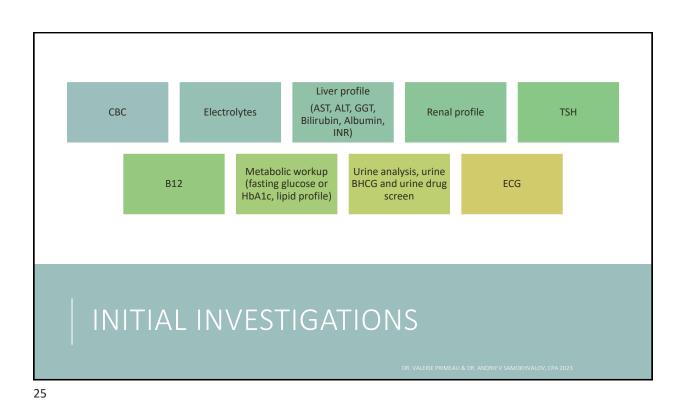
CASE SCENARIO
You assess Mr. Smith, a 46-year-old male who endorses a history of daily alcohol usage, up to a "mickey" of vodka per day.
Currently he is experiencing "shaking", sweating and anxiety. He states he last drank 3 hours ago. He endorses a history of a seizure in the context of alcohol withdrawal 5 years ago.
He denies any past history of "DTs" (Delirium Tremens). When you ask him about hallucinations, he laughs and states he has never seen any "pink elephants".
How many criteria does he meet for alcohol withdrawal?
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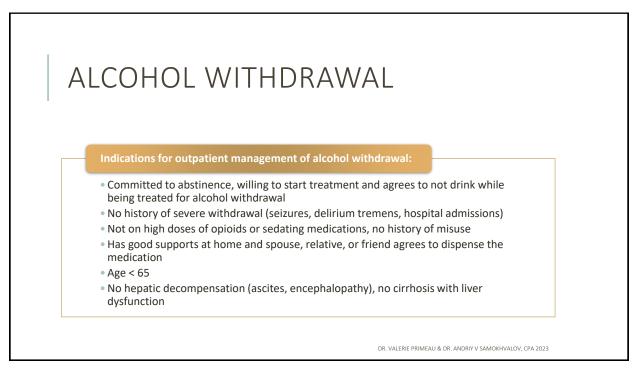




	1 mild nausea with no vomiting 2 3 4 intermittent nausea with dry heaves 5 6 7 constant nausea, frequent dry heaves and vomiting	0 none 1 very mild itching, pins and needles, burning or numbness 2 mild itching, pins and needles, burning or numbness 3 moderate itching, pins and needles, burning or numbness 4 moderately severe hallucinations 5 severe hallucinations 6 extremely severe hallucinations
WITHDRAWAL SCALES Clinical Institute Withdrawal Assessment for Alcohol (CIWA)	TREMOR—Arms extended and fingers spread apart. Observation. 0 no tremor 1 not visible, but can be felt fingertip to fingertip 2 3 4 moderate, with patient's arms extended 5 6 7 severe, even with arms not extended	7 continuous hallucinations AUDITORY DISTURBANCES—Ask "Are you more aware sounds around you? Are they harsh? Do they frighten you? Are you hearing that is disturbing to you? Are you hearing thir you know are not there?" Observation. 0 not present 1 very mild harshness or ability to frighten 2 mild harshness or ability to frighten
	PAROXYSMAL SWEATS—Observation. 0 no sweat visible 1 barely perceptible sweating, palms moist 2 3 4 beads of sweat obvious on forehead 5 6 7 drenching sweats	3 moderate harshness or ability to frighten 4 moderately severe hallucinations 5 severe hallucinations 6 extremely severe hallucinations 7 continuous hallucinations VISUAL DISTURBANCES—Ask "Does the light appen- too bright? Is its colour different? Does it hurt your eyes? seeing anything that is disturbing to you? Are you seeing the know are not there?" Observation. 0 not present 1 very mild sensitivity 3 moderate sensitivity 3 moderate sensitivity 3 moderate sensitivity 3 moderately severe hallucinations 5 severe hallucinations 6 extremely severe hallucinations 7 continuous hallucinations
	ANXIETY—Ask "Do you feel nervous?" Observation. 0 no anxiety, at ease 1 mildly anxious 4 moderately anxious, or guarded, so anxiety is inferred 5 6 7 equivalent to acute panic states as seen in severe delirium or acute schizophrenic reactions	
DR. VALERIE PRIMEAU & DR. ANDRIY V SAMOKHVALOV, CPA 2023	AGITÁTION—Observation. 0 normal activity 1 somewhat more than normal activity 2	HEADACHE, FULLNESS IN HEAD—Ask "Does your head f different? Does it feel like there is a band around your head?" not rate for dizziness or lightheadedness. Otherwise, rate severi 0 not present 1 very mild 2 mild

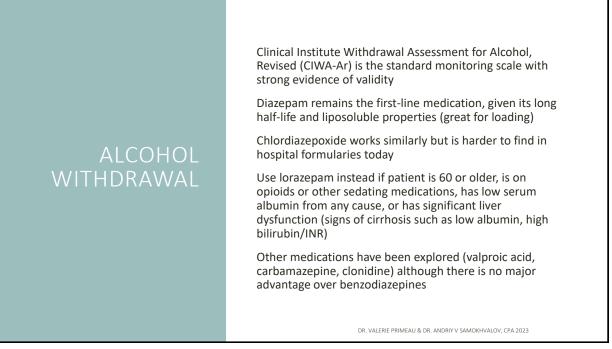




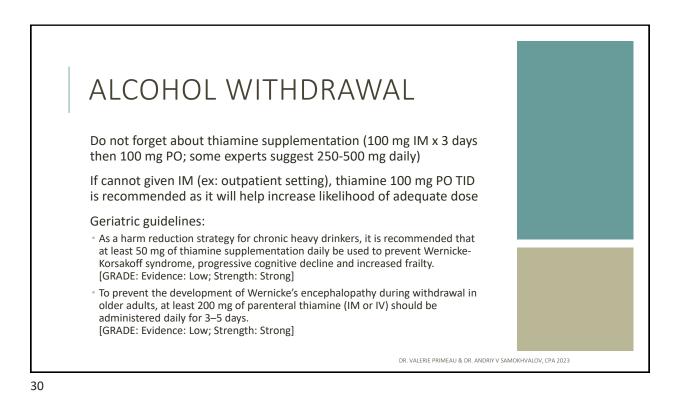


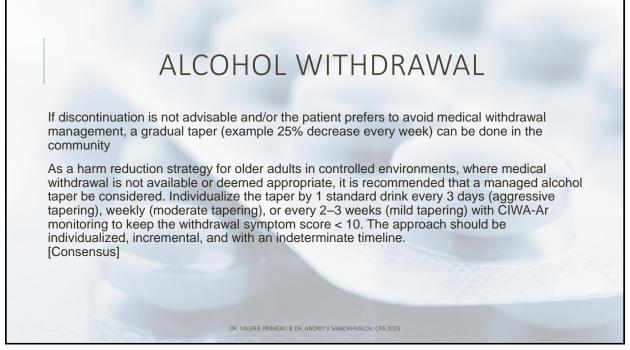
GERIATRIC CONSIDERATIONS

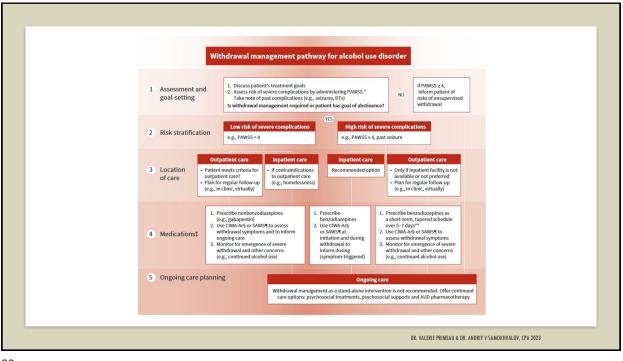
Use the Prediction of Alcohol Withdrawal Severity Scale (PAWSS) to screen for those requiring medical withdrawal management (prior delirium, seizures, or protracted withdrawal). Patients who are in poor general health, acutely suicidal, have dementia, are medically unstable, or who need constant one-on-one monitoring should receive 24-hour medical, psychiatric, and/or nursing inpatient care in medically-managed and monitored intensive treatment or hospital settings. [GRADE: Evidence: High; Strength: Strong]



ALCOHOL WITHDRAWAL	
Gabapentin (Neurontin) is an off-label alternative (not approved by Health Canada) for mild-moderate alcohol withdrawal, especially in a community setting:	
300 mg q6h = 1200 mg/d – days 1-3	
300 mg q8h = 900 mg/d – day 4	
300 mg q12h = 600 mg/d – day 5	
300 mg HS = 300 mg/d – day 6	
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ANTI-CRAVING THERAPY

Anti-craving medications have strong evidence in Alcohol Use Disorder (Number Needed to Treat 9-10)

Anti-craving is strongly recommended for at least 6-12 months initially, although anti-craving medication may be prescribed for many years and patients can have intermittent periods of therapy

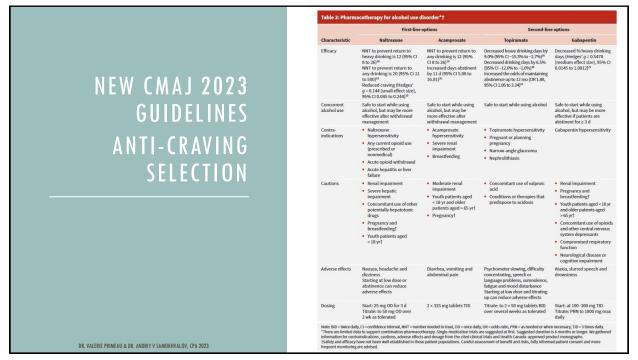
Anti-craving therapy may be safely discontinued when the patient:

- no longer has cravings
- $\ensuremath{^\circ}$ is confident that relapse will not happen if the medication is stopped
- has strong supports in place
- no longer has contact with people who misuse alcohol
- has learned alternative and more adaptive coping strategies

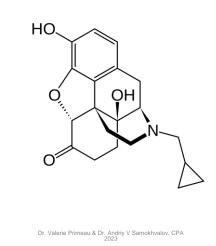
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ANTI-CRAVING SELECTION	
Health Canada Indication:	
Naltrexone (Revia) – suggested in harm reduction (APA recommended)	Н
Acamprosate (Campral) – suggested in abstinence (APA recommended)	R
Disulfiram (Antabuse) – abstinence with good supervision (APA suggested)	Н
Preferred Off Label Options:	
Topiramate (Topamax) – off label (APA suggested)	R
Gabapentin (Neurontin) – off label (APA suggested)	R
H = Mainly metabolized by the hepatic system R = Mainly metabolized by the renal system	
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NALTREXONE (LU 532)



Brand name: Revia

Availability: PO in Canada, monthly IM in US

Dosage: 25 mg daily for 2 days then 50 mg daily, please increase to 100-150 mg daily if no response and well tolerated

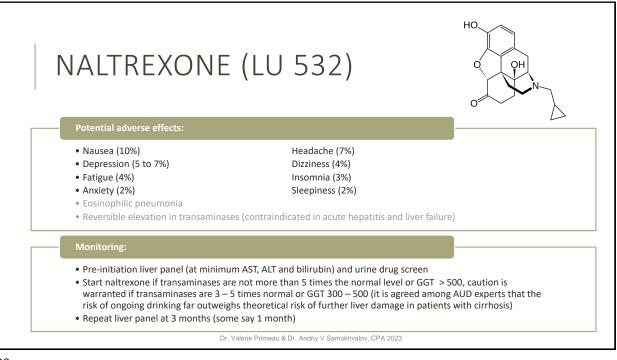
Metabolism: mainly hepatic; no meal required

Mechanism of action: competitive opioid antagonist, blocks the pleasurable effects of alcohol

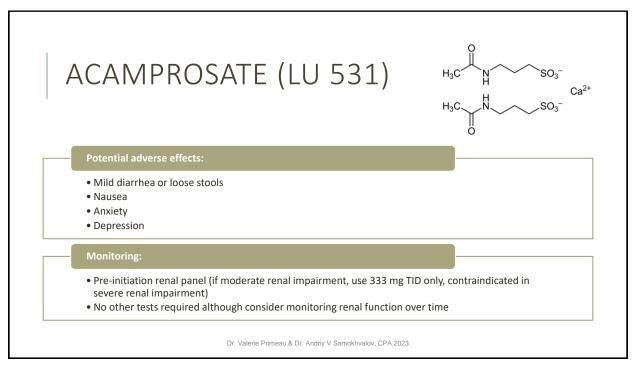
Pregnancy category: C

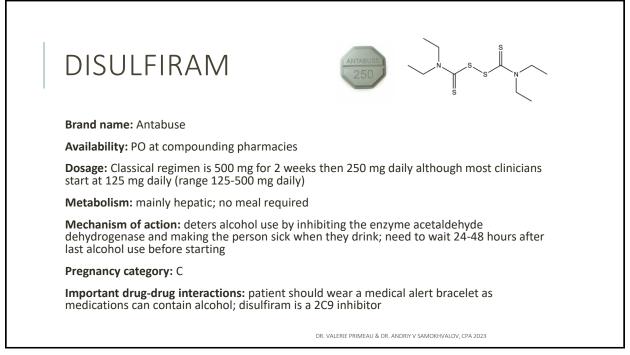
Important drug-drug interactions: no opioid for 1-3 days (monograph says 7-10 days) before initiation as it will block the analgesic effects and can precipitate withdrawal



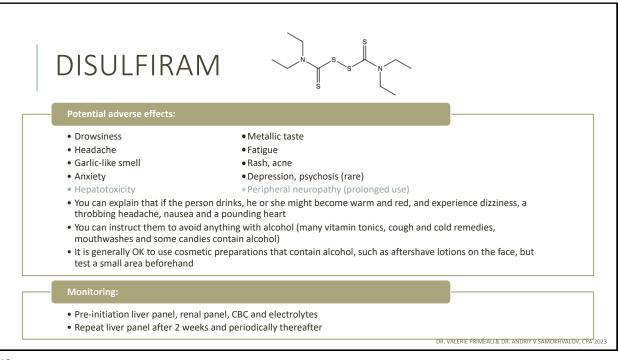


ACAMPROSATE (LU 531) Brand name: Campral Availability: PO Dosage: 333 mg TID for 2 days then 666 mg TID Metabolism: mainly renal; no meal required SO3-Mechanism of action: by modulating glutamate and Ca²⁺ increasing GABA, which has been disturbed by regular, heavy drinking (this imbalance and discomfort makes SO₂ some people return to drinking); it can mitigate alcohol withdrawal symptoms О Pregnancy category: C Important drug-drug interactions: none Dr. Valerie Primeau & Dr. Andriy V Samokhvalov, CPA 2023

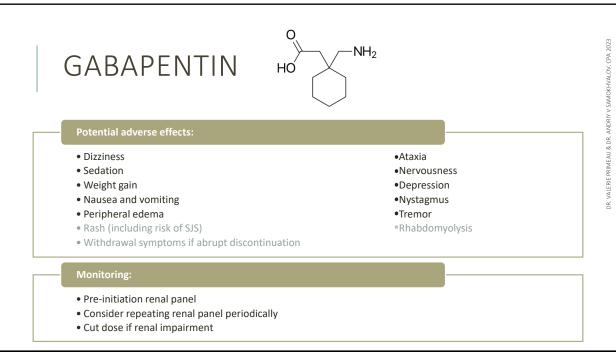


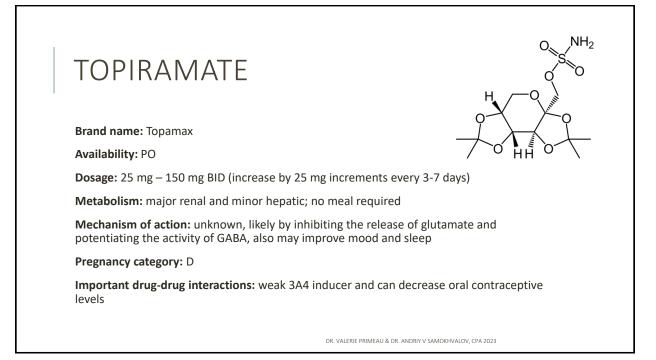


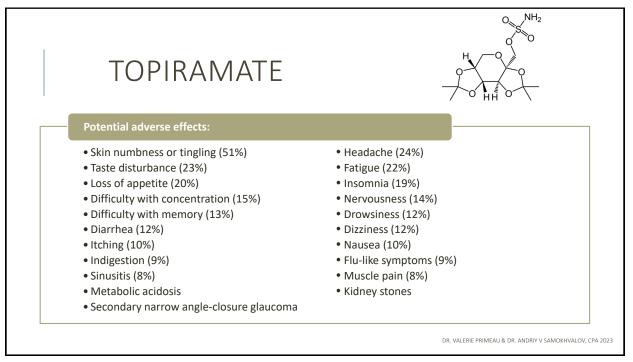


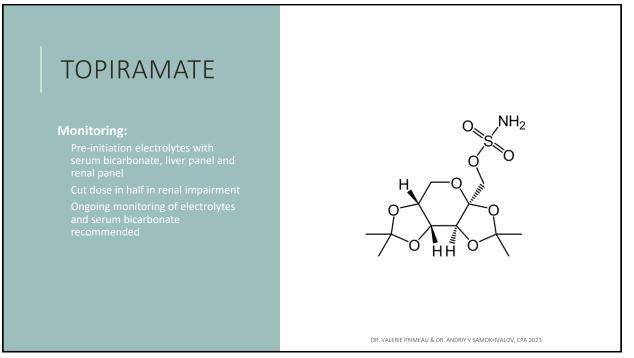


GABAPENTIN	HO NH ₂
Brand name: Neurontin	
Availability: PO	
Dosage: Start at 300 mg BID or TID, can go to 600 mg TID tolerability	or higher based on response and
Metabolism: renal; no meal required	
Mechanism of action: by increasing GABA biosynthesis ar be used to manage alcohol withdrawal as well as cravings	
Pregnancy category: C	
Important drug-drug interactions: avoid with other CNS of	depressants
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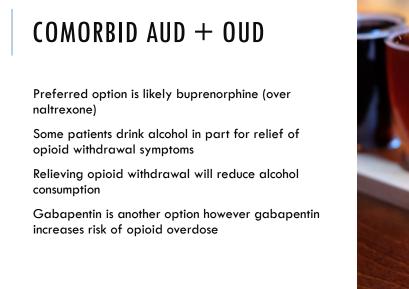






ANTI-CRAVING SELECTION

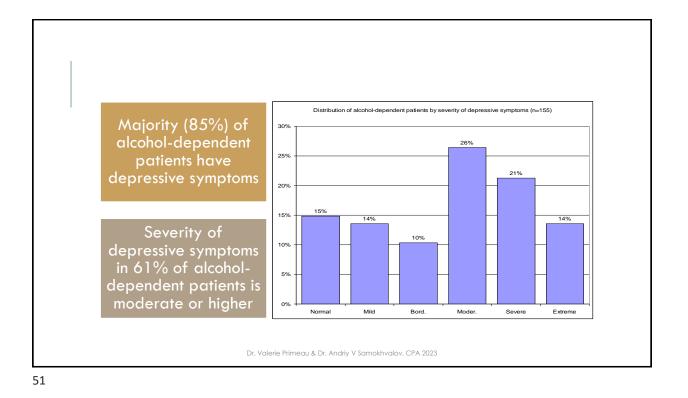
Ondansetron (off-label)	• May be useful for early-onset AUD (< 25 years), patients having a severe, destructive history of AUD, ?related to deficiency of serotonin transport system
Varenicline (off-label)	 Controlled trials suggest varenicline reduces drinking when given to cigarette smokers who also drink heavily
Baclofen (off-label)	 High-dose baclofen not found to be effective in large RCT
Medication combinations	 Controlled trials indicate combinations may work better than monotherapy (example: naltrexone + gabapentin)
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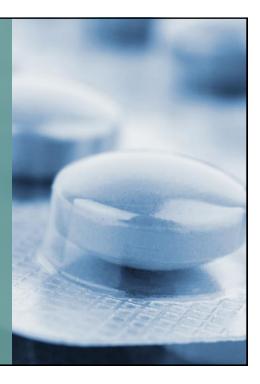
DA VINCI (DEPRESSION AND ALCOHOLISM — VALIDATION OF AN INTEGRATED CARE INITIATIVE)

Rationale for the integrated pathway:

- High prevalence of both disorders
- High comorbidity between two conditions
- Established causal links between MDD and AUD
- Undertreatment of MDD in patients with AUD and AUD in patients with MDD
- Low treatment retention and poor treatment outcomes

DA VINCI demonstrated:

- Effectiveness of combined use of anti-craving medications and antidepressants
- Effectiveness of combined psychotherapy (CBT in DA VINCI) and pharmacotherapy



CHOOSING WISELY CANADA

"Don't routinely prescribe antidepressants as first-line treatment for depression comorbid with an active alcohol use disorder without first considering the possibility of a period of sobriety and subsequent reassessment for the persistence of depressive symptoms."

"The concurrent management of psychiatric illness and alcohol use disorders requires evaluation of the role alcohol plays as a causative factor for depressive symptoms. Studies have found that response rates to antidepressants are higher when antidepressants are reserved for persistence of symptoms after a period of sobriety lasting from two to four weeks. Additionally, studies have demonstrated remission from depressive symptoms with sobriety in the absence of antidepressant treatment in a significant percentage of cases. Management of comorbid psychiatric illness and substance use disorders including alcohol dependence involves assessment and treatment delivered in a concurrent manner."

(One of their references is research from the DA VINCI project where integrated antidepressant and anti-craving therapy was used)

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SCREENING

Major Depressive Disorder

Patient Health Questionnaire (PHQ-9) is great for screening

Quick Inventory of Depressive Symptomatology (QIDS) is great for monitoring and is free to use

Hamilton Depression Rating Scale (HAM-D) and Montgomery and Asberg Depression Rating Scale (MADRS) are often used in studies but need to be purchased



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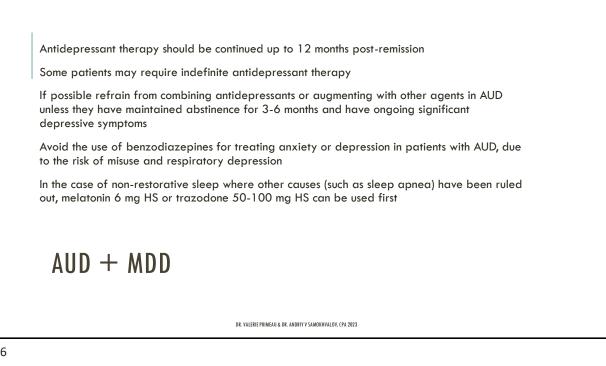
AUD + MDD

First-line for Major Depressive Disorder (MDD) Sertraline (Zoloft) 25 - 200 mg AM Venlafaxine XR (Effexor XR) 37.5 - 375 mg AM Fluoxetine (Prozac)10 – 80 mg AM Mirtazapine (Remeron)15 - 60 mg HS

*Bupropion (Wellbutrin) is usually not recommended due to the seizure risk



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AUD + ANXIETY DISORDER

Three combinations have more evidence of benefit for improving anxiety and drinking outcomes:

Naltrexone + sertraline

- Improves both outcomes
- Sertraline is a well tolerated SSRI overall (low risk of weight gain, sedation or sexual dysfunction)

Gabapentinoids (pregabalin, gabapentin)

- Pregabalin may work faster for anxiety (3-4 days) and is Firstline for Social Anxiety Disorder (SAD) and Generalized Anxiety Disorder (GAD)
- Gabapentin has greater evidence of benefit for AUD

Buspirone

Although evidence is more limited than the first two options