

Alcohol Withdrawal

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Red flags

- Alcohol withdrawal seizures
- Alcohol withdrawal delirium (delirium tremens)

Assessment

Practice Point



Re-assess motivation

Re-assess motivation to change at each consultation. Problematic substance use often challenges the willingness and capacity to change.

1. If patient is intoxicated, ensure their immediate safety and arrange follow-up for assessment when not intoxicated to avoid poor quality of assessment.
2. Take a history:

Alcohol consumption

Alcohol consumption

Ask:

- *How much do you drink on a typical day?*
- *How often do you drink? Amount per day? Days per week? Weeks per month?*

Record consumption in millilitres of alcohol, using the [standard drink sizes guide](#).

Factors associated with risk of developing withdrawal symptoms

Factors associated with risk of developing withdrawal symptoms

- *Past history of severe alcohol withdrawal syndrome, e.g. severe anxiety, seizures, delirium, hallucinations.*
- *Duration of heavy alcohol use for ≥ 6 years.*
- *Drinking > 80 g alcohol per day on a regular basis, e.g. > 8 standard drinks.*
- *Early morning drinking to alleviate withdrawal symptoms.*
- *Blood-alcohol level of $> 0.2\%$ on presentation without signs of intoxication.*
- *Concomitant use of other drugs, especially benzodiazepines.*
- *Presence of concomitant medical conditions, e.g. epilepsy, severe hepatic disease, head injury, or psychiatric conditions, e.g. anxiety, psychosis, or depression.*
- *Inter-current condition that is causing tissue hypoxia, severe pain or other stress, e.g. pneumonia or shock.*
- *Recent or imminent general anaesthetic.*
- *Elderly*

Withdrawal behaviour

Withdrawal behaviour

If alcohol withdrawal is suspected or likely, ask:

- When did they last have any alcohol to drink?
- What are they usually like when they stop drinking, e.g. any tremors, seizures, delirium, or withdrawal requiring hospitalisation?

If the patient has never tried stopping, ask what are they like in the morning before their first drink?

Complications

Complications

- Consider poly-drug use, especially benzodiazepine use as it may complicate withdrawal management.
- Identify social supports and barriers that may influence withdrawal management.
- Consider current unstable mental illness and physical health issues, e.g. insulin-dependent diabetes, epilepsy, acute pain conditions, respiratory illness.
- Identify preferences and expectations around withdrawal management, e.g. home, hospital or detox unit.

Motivation to change

– use [motivational interviewing techniques](#)

3. Perform a physical examination:

- Note patients mental state
- Look for **withdrawal symptoms and signs**.

Withdrawal symptoms and signs

Onset of symptoms is usually 6 to 24 hours after the last drink.

	Autonomic overactivity	Gastrointestinal	Cognitive and perceptual changes
Minor	<ul style="list-style-type: none">• Sweating• Fever• Tachycardia• Hypertension• Insomnia• Tremor – fine	<ul style="list-style-type: none">• Anorexia• Dyspepsia• Nausea• Vomiting	<ul style="list-style-type: none">• Anxiety• Agitation• Vivid dreams• Tactile disturbance• Headache

Major	<ul style="list-style-type: none"> • Raised or fluctuating blood pressure • Electrolyte disturbance • Tremor – at rest or coarse • Seizures – single episode of generalised, tonic-clonic in the first 24 hours 		<ul style="list-style-type: none"> • Hallucinations • Delirium and/or confusion • Delusions • Formication e.g., electric ants • Wernicke encephalopathy
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Seizures: Alcohol withdrawal seizures affect about 5% of dependent drinkers, usually occur 7 to 24 hours after their last drink, are typically generalised, tonic-clonic, and occur as a single episode.

Delirium: Alcohol withdrawal delirium (delirium tremens) is the most severe form of alcohol withdrawal and is a medical emergency.

Indicators of alcohol withdrawal delirium:

- Gross tremor
- Autonomic instability – causing sudden, unpredictable lack of control of heart rate, blood pressure, and temperature
- Extreme agitation or restlessness
- Confusion and disorientation
- Paranoid ideation
- Accentuated response to external stimuli
- Hallucinations affecting the senses, typically visual

4. Consider FBE and LFTs to investigate signs of alcoholic hepatitis and anaemia.

Management

1. If **red flags**, refer to the [Emergency Department](#).
2. Discuss **withdrawal process and treatment options** with patient.

Withdrawal process and treatment options

- Acute withdrawal symptoms usually resolve within 5 to 7 days. Subacute withdrawal symptoms can persist for months, e.g. cravings, insomnia.
- Discuss risks associated with using other drugs during withdrawal.
- Treatment involves withdrawal management and continuing care to support relapse prevention.
- Treatment requirements and options:

	<i>Ambulatory</i>	<i>Inpatient</i>
Expected withdrawal symptom severity	<ul style="list-style-type: none"> • Mild or moderate 	<ul style="list-style-type: none"> • Major
Treatment	<ul style="list-style-type: none"> • Daily review for at least a week: <ul style="list-style-type: none"> • General Practitioner on days 1 and 3 	<ul style="list-style-type: none"> • Hospital admission (≤ 7 days) • Pharmacological treatment

	<ul style="list-style-type: none"> • Detoxification nurse on all other days • Pharmacological treatment 	<ul style="list-style-type: none"> • Option to transition into residential rehabilitation programs
Factors to consider	<ul style="list-style-type: none"> • No complicating medical, psychological, or psychiatric factors 	<ul style="list-style-type: none"> • Complicating medical (including pregnancy and seizures), psychological or psychiatric factors
	<ul style="list-style-type: none"> • Supportive home environment 	<ul style="list-style-type: none"> • Limited or no support
	<ul style="list-style-type: none"> • No other significant substance use 	<ul style="list-style-type: none"> • May have significant use of other drugs
Continuing care	<ul style="list-style-type: none"> • Counselling • Pharmacotherapy Home or community-based rehabilitation 	<ul style="list-style-type: none"> • Counselling • Pharmacotherapy Home or community-based rehabilitation

3. Consider most suitable **environment for detoxification**.

Environment for detoxification

- Environment needs to be comfortable and quiet with minimal external stimuli and dim lighting.
- Where there are minimal risks and support or supervision is available, home detoxification may be suitable.
- Inpatient detoxification should be considered:
 - if there are medical comorbidities or possible complications.
 - if the home environment is unsafe or there is no support available.
 - during [pregnancy](#). Contact ReGen on **(03) 9497-1122** to consider admission.
 - where there is regular or heavy use of other drugs, e.g. benzodiazepines.
 - if there are expected or past severe withdrawal symptoms, e.g. alcohol withdrawal seizures.

4. Give all patients **thiamine** to prevent Wernicke's encephalopathy.

Thiamine¹

Always give thiamine before administering glucose to prevent precipitation of Wernicke's encephalopathy.

Alcohol withdrawal presentation	Thiamine dose
Non-nutritionally deficient alcohol dependent patient with no signs of Wernicke-Korsakoff syndrome	<ul style="list-style-type: none"> • 200 to 300 mg IM in divided doses daily for 3 days • 100 mg orally or IM daily after day 5
Alcohol dependent patient with risk factors for thiamine deficiency	<ul style="list-style-type: none"> • 300 mg IV or IM for 3 to 5 days • Then 300 mg orally daily
Suspected Wernicke-Korsakoff syndrome	<ul style="list-style-type: none"> • At least 500 mg (< 900 mg) daily IV or IM for 3 to 5 days or until symptoms subside • Then 300 mg orally daily

Initial doses of thiamine should be given prior to carbohydrate load e.g. dextrose infusions.

5. If medication is required for withdrawal symptoms, generally give **diazepam** unless patient has signs of severe liver disease – for these patients, seek [specialist advice](#) as hospitalisation may be preferred.

Diazepam regimen for ambulatory alcohol withdrawal

- Dosing regimen should be individualised and options include:
 - Symptom-triggered dosing
 - Fixed dose tapering schedule
 - Loading dose with or without ongoing fixed dose tapering or symptom-triggered dosing (inpatient)
 - Example of fixed dose tapering schedule
 - Day 1: 5 to 15 mg four times a day
 - Day 2: 5 to 10 mg four times a day
 - Day 3: 5 to 10 mg three times a day
 - Day 4: 10 mg twice a day
 - Day 5: 5 mg twice a day
 - Tapering doses may be required over the next 1 to 2 days
 - Do not continue beyond 1 week due to risk of patient developing dependence.
- Lower doses may be required for some patients e.g., elderly, frail.
- Patient should be seen daily by prescribing general practitioner or supporting drug and alcohol worker and provided with only 1 day's supply at a time.
- Script should be for quantities expected to be required by patient, not necessarily full PBS quantity.
- Contraindications:
 - respiratory failure
 - significant liver impairment
 - possible head injury
 - cerebrovascular injury

Specialist consultation is essential for these patients.

6. Provide **symptomatic treatment** for headache, nausea, vomiting, or diarrhoea as needed.

Symptomatic treatment for alcohol withdrawal

Symptom	Medication	Dose
Nausea and vomiting	Metoclopramide	10 mg every four to six hours, not exceeding 30 mg in 24 hours. Reduce dose rate to every eight hours as symptoms abate.
	Prochlorperazine	12.5 mg every four to six hours (oral or intramuscular). Reduce dose rate to every eight hours as symptoms abate.
Diarrhoea	Loperamide	4 mg as a first dose, then 2 mg after each loose stool, to a maximum of 16 mg per day.
Headache	Paracetamol	500 to 1000 mg every four to six hours, to a maximum of 4 g per day.

7. Encourage appropriate fluid intake and monitor carefully for signs of dehydration.
8. Provide **daily monitoring** in general practice.

Daily monitoring

- Patient progress – Have they ceased drinking?
 - Compliance with medications
 - Temperature, pulse rate, and blood pressure
 - Level of hydration
 - Mental state and [suicide risk](#)
9. Discuss:
- when the patient should make contact with the general practitioner or emergency services.
 - strategies for managing the withdrawal and prevention:
 - [Relaxation and distraction techniques](#)
 - [Anxiety management](#)
 - [Sleep hygiene](#)
 - [Stress management](#)
 - [Healthy lifestyle choices](#) e.g., nutrition, rest, exercise
10. Consider offering **relapse prevention medications**.

Relapse prevention medications

- Treatment duration for all relapse prevention medications is ≥ 6 months.
- Choice of drug needs to be individualised:
 - Naltrexone reduces rate of relapse and increases number of abstinence days. Well tolerated, once daily dosing. Blocks the effects of opioid analgesia.
 - Acamprosate will not interfere with pain relief but is hard to achieve compliance with, due to 3 times daily dosing.
 - Disulfiram (Antabuse) is no longer widely used due to lack of effects on cravings, difficulties with compliance and dangers associated with concomitant alcohol use.
 - Other agents such as baclofen, anticonvulsants, and ondansetron are showing promising evidence, but their use is off-label and [specialist advice](#) is suggested.

Medication	Mode of Action	Contraindications	Dosage	PBS availability
Naltrexone (Vivitrol, Revia)	Blocks effects of endogenous opiates released during alcohol consumption, which reduces the pleasurable effect and possibly reduces alcohol cravings.	Current or recent use of opioid medication. Patients who suffer from depression should be monitored closely. Acute hepatitis or liver failure.	50 mg daily (one tablet). Can be started early in withdrawal. Consider starting with ½ tablet daily for 1 to 2 days to reduce side-effects.	Phone authority for alcohol dependence as part of a comprehensive treatment program with the goal of maintaining abstinence.
Acamprosate (Campral)	Reduces neuronal hyperexcitability characteristic of alcohol withdrawal. Not effective in the acute phase but reduces symptoms of protracted alcohol withdrawal e.g., anxiety, irritability, insomnia, craving.	Pregnancy or breastfeeding. Renally cleared. Do not use if serum creatinine is > 120 micromole/L.	Initiate approximately 1 week after cessation of drinking. Patients weighing ≥ 60 kg: 666 mg, three times per day. Patients weighing < 60 kg: 666 mg in the morning, 333 mg at midday, and 333 mg at night.	Streamlined authority for alcohol dependence as part of a comprehensive treatment program with the goal of maintaining abstinence.
Disulfiram (Antabuse)	Interacts with alcohol causing unpleasant and sometimes dangerous effects.	Significant medical conditions. Concerns about compliance.	100 mg per day initially. Maximum of 300 mg per day.	Not PBS listed.
Baclofen	Muscle relaxant. Showing promise in medium to long term relapse prevention.	Seek specialist advice .	Seek specialist advice .	Off-label, therefore not available on PBS.

11. Offer to refer all patients for management, counselling, and support to either of:
 - [Low risk alcohol and drug treatment assessment](#)
 - [Moderate to high risk alcohol and drug treatment assessment](#)
12. If patient has co-morbid mental health condition and is opposed to seeing a drug and alcohol service, consider referral to [adult psychological therapies](#).
13. Consider seeking advice:
 - If patient is pregnant, contact the [Women's Alcohol and Drug Service](#).
 - If requiring advice regarding management of patients, phone [Drug and Alcohol Clinical Advisory Service](#) (DACAS) on **1800 812 804**.

Referral

- If [red flags](#), refer to the [Emergency Department](#).
- Offer to refer all patients for management, counselling, and support to either of:
 - [Low risk alcohol and drug treatment assessment](#)
 - [Moderate to high risk alcohol and drug treatment assessment](#)
- If patient has co-morbid mental health condition and is opposed to seeing a drug and alcohol service, consider referral to [adult psychological therapies](#).
- Consider seeking advice:
 - If patient is pregnant, contact the [Women's Alcohol and Drug Service](#) or ReGen on (03) 9479 1122 to consider admission.
 - If requiring advice regarding management of patients, phone [Drug and Alcohol Clinical Advisory Service](#) (DACAS) on 1800-812-804.

Information

For health professionals

Further information

- Australian Government Department of Health and Ageing – [Guidelines for the Treatment of Alcohol Problems](#)
- DACAS – [Clinical Resources](#)
- NSW Department of Health – [Drug and Alcohol Withdrawal Clinical Practice Guidelines](#)
- Turning Point – [Alcohol and Drug Withdrawal Guidelines](#)

For patients

- Department of Health and Ageing – [Reduce Your Risk: New National Guidelines for Alcohol Consumption](#)
- [Hello Sunday Morning](#)
- ReachOut – [Alcohol](#) [for young people]

Sources

References

1. Manning V, Arunogiri S, Frei M, Ridley K, Mroz K, Campbell S, Lubman D. [Alcohol and other Drug Withdrawal: Practice Guidelines](#). 3rd ed. Richmond, Victoria: Turning Point Alcohol and Drug Centre; 2018.

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