

Alcohol

Understanding units, recognising hidden risks,
and navigating practical harm reduction.



Not All Alcohols Are Equal



Methanol
 CH_3OH

Blindness & death



Isopropyl
 $(\text{CH}_3)_2\text{CHOH}$

Disinfectant – toxic
if ingested



Ethanol
 $\text{CH}_3\text{CH}_2\text{OH}$

Only safe drinking
alcohol

How Alcohol Is Produced



Fermentation

Up to ~15% ABV —
beer, wine, cider



Distillation

40%+ ABV — whisky,
gin, vodka, rum,
brandy



Fortification

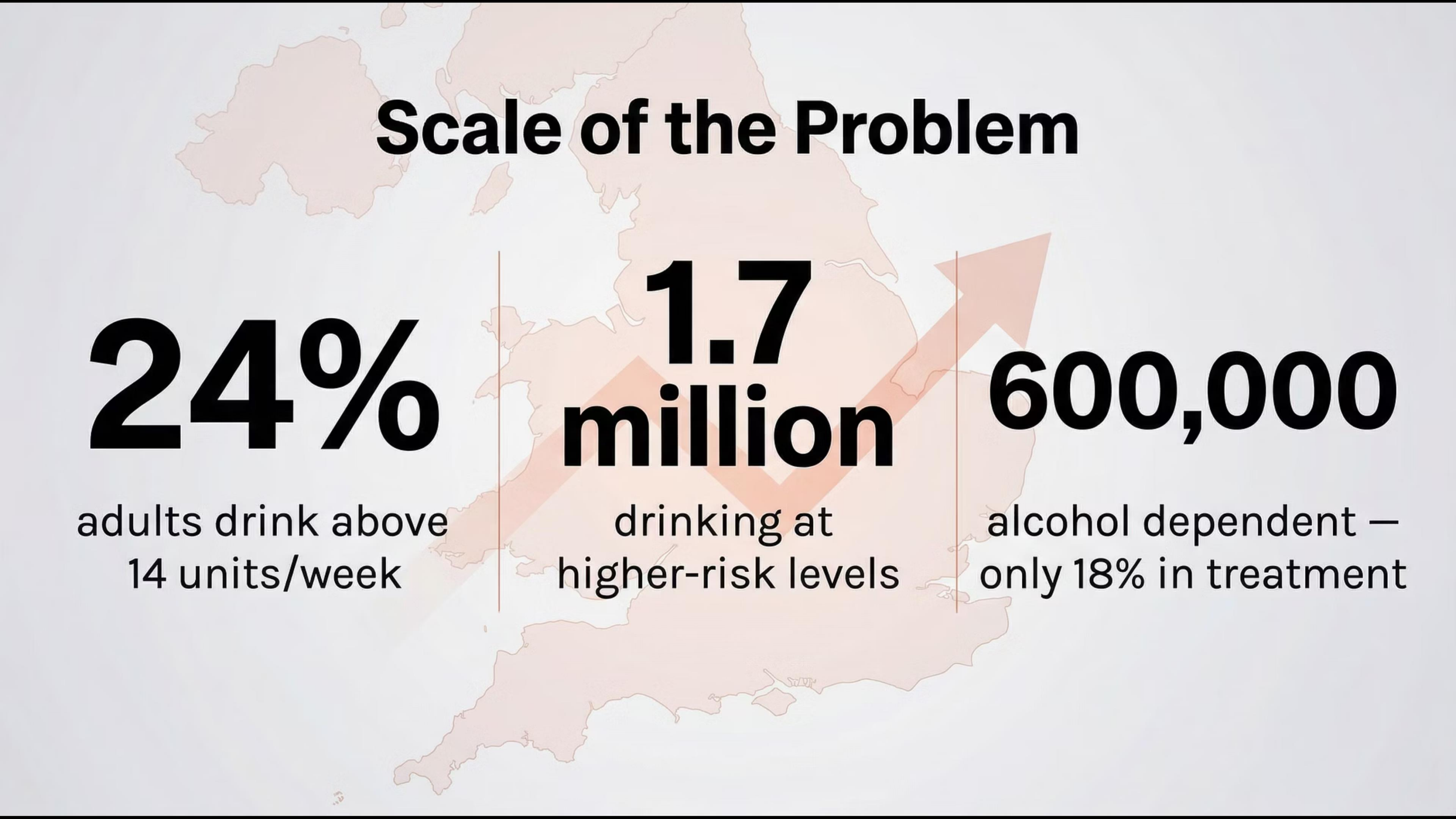
17–22% ABV — port,
sherry, vermouth

Who Is Drinking Problematically?



UK Epidemiology 2024–2025

Scale of the Problem

An infographic titled 'Scale of the Problem' showing statistics on alcohol consumption and dependence in the UK. The background is a light orange map of the United Kingdom. A large, semi-transparent orange arrow points diagonally upwards from the bottom left towards the top right. Three vertical red lines divide the infographic into three columns. The first column contains '24%' and 'adults drink above 14 units/week'. The second column contains '1.7 million' and 'drinking at higher-risk levels'. The third column contains '600,000' and 'alcohol dependent — only 18% in treatment'.

24%

adults drink above
14 units/week

**1.7
million**

drinking at
higher-risk levels

600,000

alcohol dependent —
only 18% in treatment

NHS & Public Safety Impact



76,000

admissions/year

primary alcohol cause

1 in 4

A&E attendances

alcohol a factor

40%

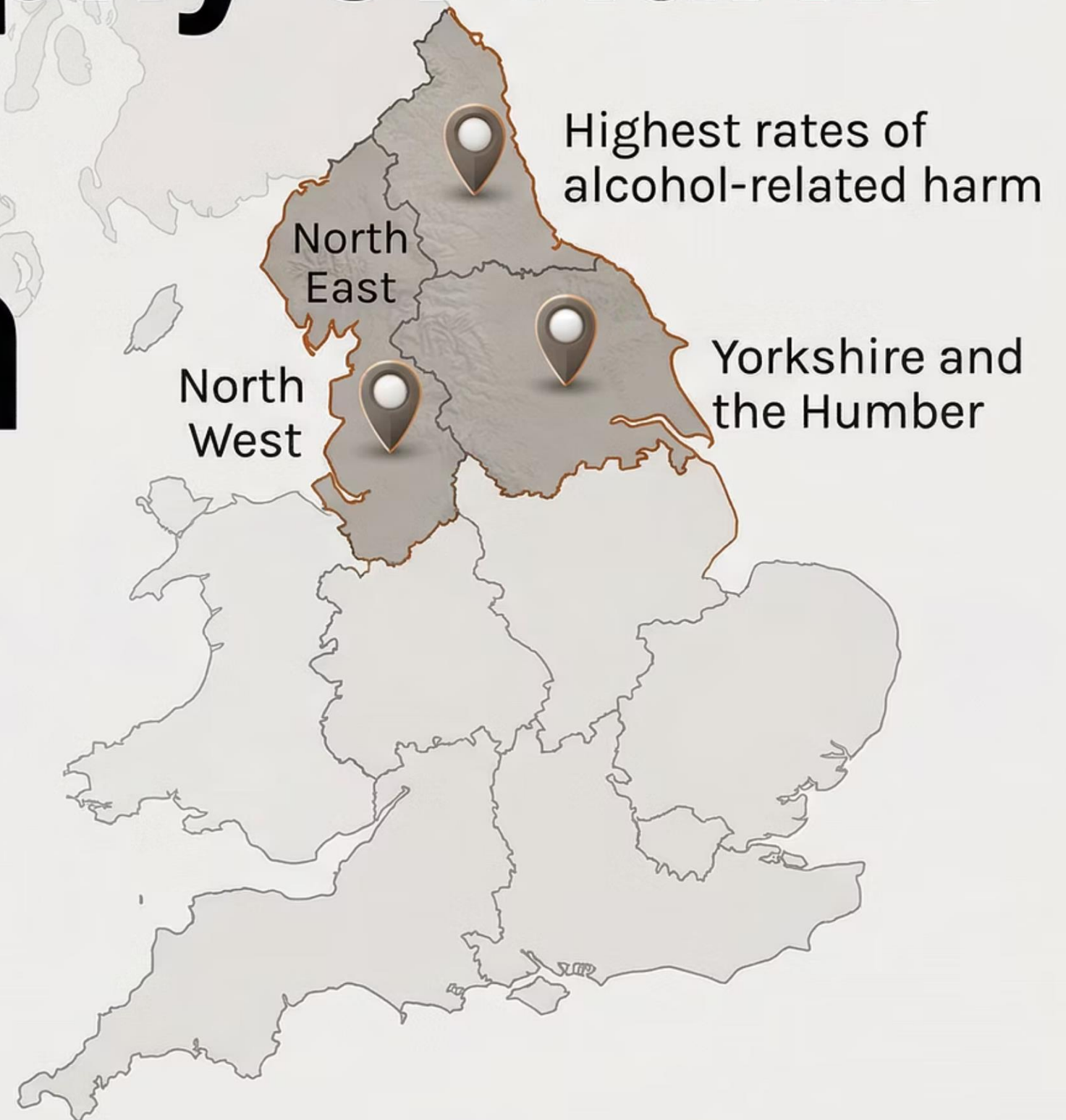
of violent crime

alcohol a factor

Cost & Geography of Harm

£21 billion

annual cost to England –
NHS, crime, lost
productivity



The Unit Calculator Interface

$$\frac{[\text{Strength (ABV)} \times \text{Volume (ml)}]}{1000} = \text{Number of Units}$$



Example 1: Pint of Stella
5.2% ABV x 568ml ÷ 1000 =
2.95 Units



Example 2: Large Glass of Wine
12% ABV x 250ml ÷ 1000 =
3.00 Units

UK Drinks: Units at a Glance

Type	ABV Range	Serving	Units
Regular beer/lager pint	4–5%	568ml	2.3–2.8
Strong beer/lager pint	7–9%	568ml	4.0–5.1
Craft beer pint	5–10%	568ml	2.8–5.7
Wine 175ml	175ml 12–14%	175ml	2.1–2.5
Wine large 250ml	13%	250ml	3.25
Spirits	25ml 37.5–40%	25ml	~1.0
Prosecco	125ml 12%	125ml	1.5
Alcopops	275ml 4–5%	275ml	1.1–1.4
Cider pint	pint 4–8.5%	568ml	2.3–4.8
Fortified wine	50ml 20%	50ml	1.0

The Craft Alcohol Market

- UK craft market expanded since 2010



- ABVs often 6–10% vs traditional 3.5–4%
- Packaging emphasises quality, not strength

Practitioner Take drinking histories carefully — units are frequently underestimated

No/Low Alcohol Options



**Market grown substantially
2020–2025**

Widely available across all
categories / Below 0.5% ABV



Use clinical judgement

May not suit AA/12-step
recovery — replicate sensory
drinking experience

Individual goals guide recommendations

Government Guidelines: Establishing the Baseline

A critical shift from weekly allowances (14 units) to daily limits to prevent dependency.

Daily Limits



Men: No more than 3-4 units on a regular basis.

Women: No more than 2-3 units on a regular basis.

Weekly Requirement



At least two alcohol-free days per week to allow hepatic recovery and reduce dependency risk.

The Equation of Harm: Defining Binge Drinking



Binge Drinking is clinically defined as consuming double your recommended daily allowance in a single sitting.

Short-Term Harms



**~40% of
violent crime**



**Acute Alcohol
Poisoning**

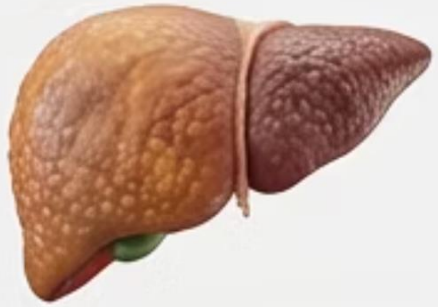


**Blackouts —
memory loss**



**Self-harm &
Suicide: 20–
30% of cases**

Alcohol-Related Liver Disease



Stage 1

Fatty Liver —
reversible

Stage 2

Alcoholic Hepatitis —
up to 50% mortality
(severe)

Stage 3

Cirrhosis —
irreversible

60% of liver disease in England is alcohol-related. Deaths up 400%+ since 1970s.

Cardiovascular Effects



Cardiomyopathy — heart failure risk



Atrial Fibrillation — 5x stroke risk



Hypertension — dose-dependent



Ischaemic & haemorrhagic stroke

No cardiovascular protective effect — UK CMO: no safe level

Neurological Complications

Wernicke's Encephalopathy — MEDICAL EMERGENCY: High-dose IV **Pabrinex** urgently. Full triad seen in fewer than 20% — treat on suspicion.



Korsakoff's — permanent amnesia, confabulation



Peripheral Neuropathy — numbness, pain, weakness



Cerebellar Degeneration — progressive ataxia

Pregnancy & FASD.

No safe level of alcohol in pregnancy — UK CMO



Leading preventable cause of neurodevelopmental disability in the UK

Est. 6,000–7,000 affected births per year in England

FASD is lifelong — early diagnosis improves outcomes

Mental Health — Bidirectional Relationship



Depression — improves within **4–6 weeks** abstinence



Anxiety — self-medication then **rebound** worsening



PTSD — integrated treatment produces **better outcomes**



Psychosis — withdrawal, Korsakoff's, alcohol-induced **disorder**

Explore whether mental health preceded or followed problematic drinking.

Sensible Drinking Strategies — For Those Not Ready to Stop



Keep a drinking diary — use MyDrinkaware or NHS unit calculator



Avoid rounds culture — feel empowered to decline



Alternate alcoholic and non-alcoholic drinks



Switch to lower ABV alternatives (e.g. session beers 3–4% vs premium lager 5–6%)



Eat before and during drinking



Have a spacer, not a chaser



Set a weekly alcohol spend budget



Hydrate alongside and after drinking



Plan alcohol-free days



Avoid drinking when distressed — use HALT check (Hungry, Angry, Lonely, Tired)

⚠️ CLINICAL WARNING: Do Not Advise Abrupt Cessation Without Assessment

Risk

Sudden cessation in physically dependent drinkers can cause withdrawal seizures and **delirium tremens** — both potentially fatal.

Always

Assess physical dependence before any reduction or cessation advice. **If client reports** morning drinking, drinking to stop shaking, or history of withdrawal — **urgent medical assessment** is required.

Community harm reduction is NOT for physically dependent drinkers without medical oversight.

Harm Reduction for Dependent Drinkers — Medical-Led Approach



• **Supervised reduction** — medically supervised tapering using chlordiazepoxide or diazepam reduces withdrawal risk.



• **Nalmefene (Selincro)** — taken as needed before anticipated drinking for those not aiming for immediate abstinence.



• **Thiamine supplementation** — oral thiamine 100mg three times daily; IV Pabrinex for acute or malnourished presentations.



• **Wet housing and managed alcohol programmes** — reduce chaotic use, associated with improved health and social outcomes.

CRITICAL ALERT: THIAMINE (Vitamin B1) — Prescribe Proactively

All alcohol-dependent patients: oral thiamine 100mg three times daily.

Anyone presenting acutely, malnourished, or admitted for detox: IV Pabrinex (parenteral thiamine) – oral thiamine is insufficient as absorption is severely impaired in heavy drinkers.

Do NOT wait for signs of Wernicke's encephalopathy before prescribing parenteral thiamine – by that point irreversible brain damage may already have occurred.



Alcohol and Driving

England and Wales: 80mg per 100ml blood (0.08g/100ml)

Scotland: 50mg per 100ml blood (0.05g/100ml) – introduced December 2014



- Approximately 2 units in one hour raises most people in England/Wales to approximately the legal limit – individual variation is significant
- There is NO reliable way to calculate when you are below the limit after drinking – the only safe choice is not to drive
- The morning after problem: alcohol consumed the previous evening may still be present the following morning, particularly after heavy sessions.

Alcohol and Medications: Dangerous Interactions

Medication	Interaction with Alcohol	Risk Level
Benzodiazepines (diazepam etc.)	Synergistic CNS/respiratory depression	VERY HIGH
Opioids (codeine, morphine, tramadol, heroin)	Synergistic respiratory depression; risk of fatal overdose	VERY HIGH
Disulfiram (Antabuse)	Severe acetaldehyde accumulation – nausea, flushing, collapse	VERY HIGH
Metronidazole	Disulfiram-like reaction – severe nausea, vomiting	HIGH
Warfarin	Increased bleeding risk; erratic anticoagulant effect	HIGH
Paracetamol (heavy drinking)	Hepatotoxicity ; lower toxic dose threshold	HIGH
Antidepressants (SSRIs, TCAs)	Enhanced CNS depression; impaired efficacy	MODERATE-HIGH
Antipsychotics	Enhanced sedation; hypotension; QT prolongation	MODERATE-HIGH
Pregabalin/gabapentin	Enhanced CNS/respiratory depression	MODERATE-HIGH
NSAIDs (ibuprofen, naproxen)	Increased GI bleeding; gastric ulceration	MODERATE

Alcohol and Sexual Health – Routine, Non-Judgemental Assessment

- Heavy drinking is associated with reduced condom use, increased sexual partners, and higher STI and HIV transmission risk.
- Alcohol is involved in a high proportion of sexual assaults in the UK – address sensitively without victim-blaming language; refer to RASASC guidance.
- Signpost to local GUM clinics, BASHH (British Association for Sexual Health and HIV), and HIV testing.



Use a trauma-informed approach in all conversations about alcohol and sexual health.



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