WHAT IS ALCOHOL?

Alcohol is the most commonly used drug in Australia. It is a depressant drug, meaning that it slows down activity in the central nervous system, which sends signals between the brain and body.

Types of alcohol include:

- Beer
- Wine, including sparkling (fizzy) wines such as champagne, spumante
- Cider
- Spirits (e.g. vodka, gin, rum, bourbon, whisky)
- Liqueurs (e.g., coffee, hazelnut or melon flavoured alcohol)
- Pre-mixed drinks, also known as ready-to-drinks (RTDs) (e.g., cans of bourbon and cola, bottles of vodka or rum mixed with soft drink, vodka mixed with chocolate milk)
- Fortified wines (e.g. port, sherry)

The level of alcohol in the body is measured using blood alcohol concentration (BAC). This is the measure that is taken through a breathalyser (e.g. by police conducting roadside breath testing). This is because the amount of alcohol in a person’s breath is almost exactly the same as the amount in their blood. BAC can also be measured by having a blood test.

Some drinks contain more alcohol than others. This alcohol content is usually described using a measure called alcohol by volume (ABV), or % ABV.

- Beer typically ranges from 2.7% ABV to around 4.9% ABV
- Wine is usually between 9.5%–13.5% ABV
- Premixed spirits or RTDs normally range from 5%–7% ABV
- Spirits usually range from around 37%–40% ABV

WHAT IS A STANDARD DRINK?

In Australia, alcohol is measured in units called ‘standard drinks’. A standard drink contains 10g of alcohol. This is equivalent to:

- Just less than 1 middy or 1 pot of full strength beer (285ml)
- 1 can or stubby of mid-strength beer (3.5% alcohol content) (375ml)
- 100ml glass of wine
- 1 shot or nip of spirits (30ml)

This means that most servings of alcohol contain more than one standard drink. The law requires that drink labels include information about the alcohol content (%ABV) and the number of standard drinks per bottle/can.

THE ALCOHOL GUIDELINES FOR HEALTHY ADULTS

The guidelines for healthy adults are:

- Drink no more than two standard drinks on any day, to reduce the risk of harm over a lifetime.
- Drink no more than four standard drinks on a single occasion, to reduce the immediate risk of harm from drinking, for example from accidents or injuries while under the influence of alcohol.
- For women who are pregnant or planning a pregnancy, not drinking is the safest option.
- For women who are breastfeeding, not drinking is the safest option.
WHAT ARE THE EFFECTS?

Alcohol can have the following effects:

- Slower breathing and heart rate
- Drowsiness
- A feeling of relaxation and wellbeing
- Loss of inhibitions
- Dehydration
- Unsteady gait, loss of coordination
- Disorientation
- Nausea, vomiting
- It can cause the user to become unconsciousness – this is particularly dangerous if the person vomits because he/she may inhale it and suffocate

Alcohol starts to take effect within approximately 5 minutes after initial consumption with the strength (alcohol content) and the amount consumed determining how strong the effects will be. Everyone is different, but on average it takes about an hour for the body to clear one standard drink. It can take several hours or days for the body to return to normal after a big drinking session.

Factors that influence the effects of alcohol include:

- Gender – women are more susceptible to its effects than men due to their size (often smaller) and body composition
- Age – young people have a lower tolerance to the effects of alcohol (because they are usually physically smaller and less used to alcohol in their system)
- Size and metabolism – for example, people of a smaller size are more affected than larger people
- Food consumption – food slows down the rate at which alcohol enters the bloodstream
- Pre-existing mental health problems (e.g. anxiety, depression or schizophrenia)
- Some medical conditions (e.g. including epilepsy, liver conditions and alcoholic pancreatitis)
- Other medications, herbal supplements or illicit drugs that are being used at the same time. These can affect how a person feels after they drink alcohol and can have unexpected, unwanted and serious consequences
WHAT ARE THE RISKS?

In Australia, alcohol is the second leading cause of drug-related death and hospital admissions after tobacco. Over one in every ten deaths (13%) of Australians aged between 14–17 is alcohol-related, and some researchers have calculated that each week, around five Australians aged 15 – 24 years die and another 200 end up in hospital due to alcohol-related causes.⁴

Alcohol is associated with a range of harms. Some harms are associated with drinking too much on one occasion (e.g. accidents, injuries, unsafe sex and alcohol poisoning) while other harms are associated with regular drinking (e.g. liver problems, cancer and alcohol dependence).

The major risks associated with alcohol use include immediate problems such as:¹ ⁵

- Increased risk of experiencing an accident or injury, for example through road traffic accidents, falls, fires and drowning. This risk is especially high among young people
- Increased risk of sexually transmitted infections (STIs) or unintended pregnancy
- Increased chance of experiencing violence, for example getting into fights or being assaulted

Longer-term problems include:¹ ⁵

- Alcohol dependence (‘alcoholism’) – see below for more information
- Brain damage and problems with brain development
- Malnutrition
- Cardiovascular (heart) problems
- Cancer – alcohol has been linked to a range of cancers, including mouth, oesophagus, liver and breast cancers
- Liver problems
- Increased risk of mental health problems such as anxiety and depression
- Alcohol use may also increase problems with diabetes and obesity
- Alcohol use in pregnancy can also lead to serious problems such as Fetal Alcohol Syndrome in the unborn child

WHICH GROUPS ARE MOST AT RISK?

Young people
Research suggests that alcohol use can damage the developing brain. Since our brains continue to develop until we are in our 20s, young people are advised to avoid drinking for as long as possible.¹ ⁶ People under 15 years of age are at the greatest risk of harm from drinking, so avoiding alcohol at this age is particularly important.

Pregnant women
There is no known safe level of alcohol use in pregnancy.⁷ Alcohol use in pregnancy is known to increase a number of risks for the mother and the fetus, particularly among heavy and regular drinkers. These include miscarriage, premature birth, birth defects, developmental delays and brain damage. Alcohol use in pregnancy can also cause Foetal Alcohol Syndrome (FAS). Features of FAS include physical abnormalities and brain damage that can cause developmental delays, behaviour problems and learning difficulties.

Others
Other groups who can be at increased risk of alcohol-related harm include older people (60+ years), people with a family history of alcohol dependence (alcoholism) and people who use illegal drugs.¹
Alcohol is a huge contributor to accidents, deaths and injuries on the roads each year. For people with a full license, the legal limit for alcohol use is 0.05% BAC. Even if your legal limit is 0.05 it is recommended that you don't drink any alcohol at all if you plan to drive. This is because alcohol affects different people in different ways and it is very difficult to judge your blood alcohol concentration. It is also important to note that you may be over the limit for much of the next day if you have had a heavy night of drinking.

There is good evidence that injuries and deaths from drink driving are much greater among young people than adults. For this reason the legal alcohol limit is zero for learner and provisional licence holders.

Driving in rural areas
Research has shown that rates of serious injury and death from drink driving are much greater in regional and rural areas, so people who live in those communities should be especially careful. A reason for this is the more dangerous environments (e.g. embankments, drop-offs, wildlife, livestock).
Drinking while also using other drugs can have unpredictable effects. For example, there is a risk of overdose when mixing alcohol with other drugs that depress (slow down) the central nervous system, such as inhalants, GHB, heroin and some medications (e.g. Valium, morphine and OxyContin). This is because they are all central nervous system depressants which slow down the heart rate and breathing. Too much of one or more depressant(s) increases the risk of overdose and possible death.

Combining alcohol with drugs that have stimulant effects, such as methamphetamine, ecstasy or cocaine, can also lead to problems. For example, when used with cocaine, a metabolite called cocaethylene is formed. This can cause potentially fatal heart problems.\footnote{15,16}

For more information about cannabis use with alcohol, see www.ncpic.org.au/ncpic/publications/factsheets/pdf/mixing-cannabis-and-alcohol

Yes, like many other drugs, it is possible to become addicted to alcohol, particularly if drinking is excessive or regular. People who are dependent on (addicted to) alcohol develop a tolerance to the drug.\footnote{17} This means that they need to drink more to get the same effect.\footnote{17}

As with any drug, people who are dependent on alcohol find that using the drug becomes far more important than other things in their lives, such as work, sport, socialising or study. They crave alcohol and find it very difficult to stop using it.

If you have family members with a history of alcohol problems, you are at greater risk of developing this problem yourself.\footnote{1}

People who are alcohol dependent will experience withdrawal symptoms when they stop or reduce their drinking. Alcohol withdrawals are different from a hangover. Symptoms usually start between 6-24 hours after the last drink and normally last a few days. In severe cases people can feel unwell for up to 14 days. In severe cases people can feel unwell for up to 14 days.

Symptoms of alcohol withdrawal can include:\footnote{18}

- Increased blood pressure, pulse and body temperature
- Agitation or restlessness
- Anxiety
- Sweating
- Headaches
- Confusion and disorientation
- Shakes or tremors
- Nausea and vomiting
- Stomach cramps
- Diarrhoea
- Loss of appetite/weight loss
- Problems sleeping
- Perceptual distortions (e.g., things looking/feeling weird or different)
- Paranoia (feeling extremely suspicious and frightened)
- Hallucinations (e.g., seeing or hearing things that aren’t really there)
- Seizures - these can be life threatening
‘Delirium tremens’ or the DTs is the name of a severe form of the withdrawal syndrome, and can be very dangerous.  

For some people, stopping their alcohol use abruptly can be dangerous. Heavy drinkers wishing to stop their alcohol use should talk to their drug and alcohol services (or GP) about developing a plan to gradually reduce their alcohol intake and minimise the risk of experiencing withdrawals.

SOURCES

FOR MORE INFORMATION

We have listed some of the national telephone helplines and websites below.

Australian Drug Foundation
Provides information about drugs and links to services in each state and territory
www.adf.org.au

DrugInfo Line
Provides information about drugs and alcohol. Open 9am-5pm, Monday to Friday
1300 85 85 84 or 03 8672 5983. Or visit www.druginfo.adf.org.au

Just Ask Us
Provides information about drugs, alcohol, health and well-being
www.justaskus.org.au

Kids Helpline
Free, private and confidential telephone and online counselling service for young people aged 5-25 years
Open 24 Hours 1800 55 1800

Lifeline
24 hour crisis line 131114
Also available is one-on-one chatlines for crisis support, visit

Counselling Online
Free, confidential counselling service for people using drugs, their families and friends
www.counsellingonline.org.au

National Drugs Campaign
Australian Government website provides information about illicit drugs and campaign resources.
www.australia.gov.au/drugs

Family Drug Support
For families and friends of people who use drugs or alcohol
1300 368 186

For the latest information about safety for young drivers, see
http://www.youngdriverfactbase.com/
Some state and territory based helplines are listed below.

Alcohol and Drug Information Service (ADIS)(free, confidential advice about drugs and alcohol).

Some services operate 24 hours.

<table>
<thead>
<tr>
<th>State/Territory</th>
<th>City contact</th>
<th>Regional/Rural contact (free call from landline)</th>
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<tbody>
<tr>
<td>New South Wales ADIS</td>
<td>02 9361 8000</td>
<td>1800 422 599</td>
</tr>
<tr>
<td>Queensland ADIS</td>
<td>1800 177 833</td>
<td>1800 177 833</td>
</tr>
<tr>
<td>Victoria Directline</td>
<td>1800 888 236</td>
<td>1800 888 236</td>
</tr>
<tr>
<td>Western Australia ADIS</td>
<td>08 9442 5000 08 9442 5050 (for parents)</td>
<td>1800 198 024 1800 653 203</td>
</tr>
<tr>
<td>Australian Capital Territory ADIS</td>
<td>02 6207 9977</td>
<td></td>
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<tr>
<td>Northern Territory Alcohol &amp; Drug Services</td>
<td>08 8922 8399 (Darwin) 08 8951 7580 (Alice Springs)</td>
<td>1800 131 350</td>
</tr>
<tr>
<td>Tasmania ADIS</td>
<td>1800 811 994</td>
<td>1800 811 994</td>
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<tr>
<td>South Australia ADIS</td>
<td>1300 131 340</td>
<td>1300 131 340</td>
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Callers in Victoria can also contact the Youth Substance Abuse Service (YSAS) on 1800 014 446 (24 hour toll free service)