

## Practice Alert

# Sun and summer safety

November 2022

## Key points

- Particularly in the summer months, heat brings increased risk of heat-related illness and health complications.
- People with disabilities most at risk of experiencing heat-related illness include people with difficulties with eating and drinking, people with an intellectual disability or physical disability and people with disabilities who are highly reliant on others (Bouchama 2007).
- Some medications may also increase the risk of heat-related illness.
- Always plan ahead when extreme weather is forecast and take steps to reduce the risk of heat-related illness.
- Monitor the fluid intake of participants and watch for signs of dehydration and heat stress.
- Use sun safety measures: apply sunscreen, wear a hat, protective clothing and sunglasses, and seek shade when outside, especially during the hottest parts of the day.
- If you are worried a person is experiencing heat-related illness, seek medical advice straight away.

## Heat-related illness

Heat exhaustion is the body's response to an excessive loss of fluids and salt through perspiration (NSW Health 2020). Heat exhaustion can progress to heat stroke if immediate steps are not taken to reduce body temperature. Signs of heat exhaustion include:

- Heavy sweating
- Cold, pale or clammy skin
- Nausea or vomiting
- Muscle cramps
- Dizziness
- Headache
- Fast, weak pulse (CDC 2017)

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Heat stroke occurs when the body's internal temperature reaches above 40.5 degrees Celsius (NSW Health 2020).

**Heat stroke is a medical emergency and 000 must be called.**

Signs of heat stroke include:

- High body temperature (above 40.5 degrees Celsius)
- Fast and strong pulse
- Hot, red, dry or damp skin
- Intense thirst
- Rapid shallow breathing (NSW Health 2020)
- Headache
- Dizziness
- Confusion
- Loss of consciousness
- Nausea (CDC 2017)

## Heat-related illness risk factors

People with higher risk of heat-related illness include:

- People with dysphagia (swallowing difficulties) (Ball 2012; Chadwick 2014; Perez 2015)
- People taking 3 or more psychotropics or 5 or more different medications (polypharmacy) (Schols 2009)
- People with epilepsy or other neurological disorders (Stella 2021; Westaway 2015)
- People with cerebral palsy or other motor disorders (Westaway 2015)
- People with dementia or other intellectual disabilities (Ball 2012; Manduchi 2020; Schmeltz 2017)
- People who are obese or have low levels of physical fitness (Bongers 2020; Levine 2012)
- People with diabetes, or hypertension (high blood pressure) (Bongers 2020; Schols 2009; Westaway 2015).

## Dehydration

People with a disability and particularly those with eating and/or drinking support needs are at greater risk of dehydration (Ball 2012; Perez 2015). Dehydration can complicate pre-existing medical conditions and cause significant illness (Taylor 2021). Some other risk factors for dehydration include:

- Intellectual or cognitive impairment
- Medications such as antipsychotics that reduce thirst sensation and prevent sweating, or diuretics and laxatives that reduce fluids in the body.

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## Behaviours of concern

Acute medical conditions such as dehydration can increase behaviours of concern (de Winter 2011; Hooper 2015) and extreme heat can often exacerbate comorbid mental illness and/or behavioural disorders (Schmeltz 2017).

## Photosensitivity

Some medications can increase the body's sensitivity to UV rays (photosensitivity) (Blakely 2019). These include antipsychotics, antidepressants, anticonvulsants, antihistamines, diuretics, NSAIDs, statins and diabetes medications (Blakely 2019; Hoffmann 2020). People who take these medications may experience significant adverse effects following sun exposure and should be encouraged to cover their skin as much as possible, in addition to applying sunscreen and other sun safety measures.

## Medications associated with an increased risk of heat-related illness

Some types of medications can increase the risk of heat-related illness, because of adverse effects associated with these medications. These include an impaired perspiration response and/or thirst sensation, dehydration due to reduced availability of water in the body, a reduced ability to perceive hot weather, sedation effect, or low blood pressure leading to increased risk of falling (Bongers 2020; Westaway 2015). People who take three or more psychotropics or five or more different medications (polypharmacy) are at even greater risk (Schols 2009). You can read more about this in the [Practice Alert: Polypharmacy](#).

Medications with known heat-related side effects include:

- Anticonvulsants – including Carbamazepine, Phenobarbital, Topiramate (Hoffman 2020; Westaway 2015)
- Antidepressants (both SSRIs and tricyclic antidepressants) (Hoffman 2020)
- Antipsychotics – including Aripiprazole, Haloperidol, Risperidone (Blakely 2019; Levine 2012)
- Diabetic medication – including Metformin (Hoffman 2020)
- Diuretics and laxatives (Schols 2009)
- Statins – Simvastatin (Blakely 2019; Brennan 2020; Hoffman 2020; Westaway 2015)
- Stimulants – such as Methylphenidate (Han 2019; Levine 2012).

## Supporting participants

### Sun protection

Workers and participants should avoid going outside during the hottest parts of the day especially between the months of September and March when the UV (ultraviolet) index is highest (10am-2pm during Australian Standard Time, or 11am-3pm in the Northern Territory, North Queensland or during daylight saving time) (NTIS 2012; Northern Territory Government 2016; SunSmart 2021).

Sun protection measures should be implemented when the UV index is 3 or higher (Cancer Council 2020). Sun protection measures should be used year-round (even on cloudy days) and may be more

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necessary if living in States or Territories that regularly experience a high UV index and heat throughout the year, such as Queensland or the Northern Territory (Cancer Council Queensland 2017; Cancer Council Queensland 2021; Northern Territory Government 2016).

- ✓ You can check the weather forecast and UV index on the [Bureau of Meteorology website](#) or [BOM Weather App](#), or [Cancer Council SunSmart App](#).

## Sun safety measures:

**Apply sunscreen:** applying sun protection factor (SPF) 30+ sunscreen at least 20 minutes before exposure to the sun and reapply at least every 2 hours to minimise the chances of being burnt (Cancer Council 2020; Cancer Australia 2022). Apply sunscreen to any skin exposed to the sun.

**Wear a hat:** all providers and participants should wear a hat with a brim to protect the face and neck from the sun.

**Protective clothing:** providers and participants should be encouraged to wear clothes that cover as much of their skin as possible.

**Seek shade:** when outside during summer it is best to sit in the shade such as under a tree, beach tent, or sun shelter to reduce exposure to the sun.

**Wear sunglasses:** wear sunglasses to protect the eyes from sun damage.

Some participants may not want to use particular sun safety measures such as applying sunscreen or wearing a hat (Kanellis 2020). It is important to provide participant with choices and encourage all participants to implement sun safety measures. Some options for participants who do not want to implement sun safety measures include:

- A roll-on or spray sunscreen
- Wearing loose-fitting long clothing instead of wearing sunscreen
- Sitting in a sheltered area instead of wearing a hat or between putting on sunscreen.

## Stay hydrated

Workers should support participants to stay hydrated in a manner that aligns with mealtime management plans and medical/allied health professionals regarding fluid intake. Workers should be familiar with participants' preferred drinks in order to encourage more fluid intake (Hooper 2015).

You can read more about mealtime management plans in the [Practice Alert: Dysphagia, safe swallowing and mealtime management](#).

## Plan ahead

Workers can support participants to plan ahead for outdoor activities during hot weather. This might include planning for:

- A time of day that is cooler
- Reschedule or reconsider plans that involve sun exposure
- Accessible locations that include shaded areas and amenities
- Having water and preferred drinks available

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- Keep food and drinks refrigerated or cold - consider taking an esky or cooler bag to keep them cold while out
  - Avoid wearing dark coloured clothing that absorb heat more than lighter coloured clothing.
  - Plan to eat cold foods and foods with a high water content such as salads, fruit and cold meats or fish (NSW Health 2019).

Participants can also be supported to prepare their home ahead of hot weather, including:

- Make sure all air conditioners and fans are working ahead of time
- Consider other ways to decrease heat exposure for example: installing additional blinds, reducing heat from appliances during the hotter parts of the day
- Create a contingency plan in case there is a power failure or air conditioning is not working on the day.

### During extreme heat

- Stay indoors in a cool environment
- Reduce activity and minimise exertion
- Increase fluid intake.

All workers and participants should use sun and heat safety measures if going outside is unavoidable during extreme heat.

### Medication Reviews

Prior to the summer season or as soon as possible, it is important that participants have all their medications reviewed by a pharmacist to assess for adverse effects and drug-to-drug interactions including increased risk of heat-related illness.

Recommendations from medication reviews related to heat related illness should be incorporated into participant support plans and medical records.

You can read more about medication reviews in the [Practice Alert: Polypharmacy](#).

### Support Plans

Participants at higher risk of heat related illness can be supported to update medical records and support plans with information to prevent and manage heat related illness or issues. This might include reviewing the following support plans with relevant medical and/or allied health specialists:

- Health care plans, including medical records
- Mealtime Management Plans
- Epilepsy Management Plans
- Behaviour Support Plans.

You can read more about keeping participant support plans up to date in the [Practice Alert: Comprehensive Health](#).

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## When heat exhaustion or heat stroke is suspected:

- Seek medical assistance immediately.
- If it is an emergency, call 000.
- For health advice, call Health Direct 1800 022 222 to speak with a Registered Nurse.

Take steps to cool the person down:

- Loosen clothing.
- Move to a cool place.
- Place wet cool cloths on the person's neck, armpits or groin (NSW Health 2020) or take a cool bath.

For further information refer to [Hot weather risks and staying cool - Healthdirect](#) or [Beat the heat - NSW Government](#)

## Provider obligations

### NDIS Code of Conduct

Providers and workers must comply with the NDIS Code of Conduct when providing supports or services to NDIS participants.

The NDIS Code of Conduct requires all NDIS providers and workers who provide NDIS supports or services to NDIS participants to, among other things:

- Act with respect for individual rights to freedom of expression, self-determination and decision-making in accordance with applicable laws and conventions
- Provide supports and services in a safe and competent manner with care and skill
- Promptly take steps to raise and act on concerns about matters that may impact the quality and safety of supports and services provided to people with disability.

### NDIS Practice Standards

If you are a registered NDIS provider, you must comply with the [NDIS \(Provider Registration and Practice Standards\) Rules 2018](#) as part of your conditions of registration. The NDIS Practice Standards relate to the delivery of safe, quality supports and services, and the management of risks associated with the supports you provide to NDIS participants.

In delivering NDIS support and services, providers must also demonstrate compliance with the NDIS Practice Standards and Quality Indicators. The NDIS Commission's guidance on the [NDIS Practice Standards and Quality Indicators](#) provides a resource to assist registered NDIS providers to understand their obligations.

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The NDIS Practice Standards that are most relevant to this alert include:

- **Safe environment:** Each participant accesses supports in a safe environment that is appropriate to their needs.
- **Support planning:** each participant is actively involved in the development of their support plans. Support plans reflect participant needs, requirements, preferences, strengths, and goals, and are regularly reviewed.
- **Responsive Support Provision:** Each participant accesses responsive, timely, competent and appropriate supports to meet their needs, desired outcomes and goals.
- **Emergency and disaster management:** includes planning that ensures that the risks to the health, safety and wellbeing of participants that may arise in an emergency or disaster are considered and mitigated, and ensures the continuity of supports critical to the health, safety and wellbeing of participants in an emergency or disaster.
- **Information Management:** Each participant's information is managed to ensure that it is identifiable, accurately recorded, current and confidential. Each participant's information is easily accessible to the participant and appropriately utilised by relevant workers.
- **Incident Management:** Each participant is safeguarded by the provider's incident management system, ensuring that incidents are acknowledged, respond to, well-managed and learned from.
- **Human Resource Management:** Each participant's support needs are met by workers who are competent to carry out their role and have the relevant expertise, experience and qualifications to provide supports.

## Resources

### Easy-read Resources

Council for Intellectual Disability. Summer Safety Easy-read

<https://cid.org.au/wp-content/uploads/2021/11/Summer-Safety-Easy-Read-Guide.pdf> (PDF, 1.3 MB).

Hertfordshire Health and Community Services 2015. Easy-read guide to being safe in the sun.

<https://www.hcpa.info/wp-content/uploads/easy-read-guide-to-being-safe-in-the-sun-SHINE-event.pdf> (PDF, 239 KB).

Centres for Disease Control and Prevention. Heat-Related Illness Fact Sheet

[https://www.cdc.gov/disasters/extremeheat/pdf/Heat\\_Related\\_Illness.pdf](https://www.cdc.gov/disasters/extremeheat/pdf/Heat_Related_Illness.pdf) (PDF, 113 KB).

### Sun safety and UV

[Sun safety | Cancer Council](#)

[SunSmart App | Cancer Council](#)

[UV Index | Cancer Council](#)

[About UV and sun protection times \(bom.gov.au\)](#)

[Hot weather risks and staying cool | healthdirect](#)

[Heatwave Service for Australia \(bom.gov.au\)](#)

[Heatwave preparation checklist - Beat the heat \(nsw.gov.au\)](#)

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## State and Territory advice regarding sun and heat safety

[Heat stress - NT.GOV.AU](https://www.nt.gov.au/health/heat-stress)

[Heat \(healthywa.wa.gov.au\)](https://www.healthysa.gov.au/heat)

[Hot weather health and safety | Health and wellbeing | Queensland Government \(www.qld.gov.au\)](https://www.health.qld.gov.au/health-and-safety)

[Sun Safety \(health.qld.gov.au\)](https://www.health.qld.gov.au/sun-safety)

[Extreme heat and heatwaves \(health.vic.gov.au\)](https://www.health.vic.gov.au/heat)

[Beat the heat \(nsw.gov.au\)](https://www.nsw.gov.au/beat-the-heat)

[Extreme heat | Tasmanian Department of Health](https://www.tas.gov.au/health)

[Summer safety | Health \(act.gov.au\)](https://www.health.act.gov.au/summer-safety)

[Extreme heat | SA Health](https://www.sa.gov.au/health)

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## General enquiries

**Call: 1800 035 544** (free call from landlines). Our contact centre is open 9.00am to 4.30pm in the NT, 9.00am to 5.00pm in the ACT, NSW, QLD, SA, TAS and VIC Monday to Friday, excluding public holidays.

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