RISK FACTORS

It doesn't have to be hot to suffer heat illness.

It can arise in cooler climates as a result of strenuous activity, carrying heavy kit or wearing protective clothing. There are many factors that can increase a person's risk of heat illness.

Lifestyle factors
Individual drive and determination
Low or reduced physical fitness
Being overweight or obese
Smoking
Alcohol within the past 24 hours
Excessive motivation (for example, in pass or fail tests)
Use of sport supplements
Use of illicit drugs
Health factors
Previous heat illness
Previous poor performance in a fitness test
Previous collapse from physical exertion
Risk of exertional collapse due to Sickle Cell Trait (ECAST)
Asthma
Recent or current illness (for example, a cold, fever or diarrhoea)
Medication (prescription or over the counter)
Recent vaccinations (for example, for COVID-19 vaccinations, personnel are recommended light duties for 72 hours if they experience any adverse symptoms)
Sunburn

Sunburn

Dehydration

Work factors

Inexperienced pe	ersonnel
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Long-term fatigue

Lack of sleep

Air travel within the past 24 hours

Poor nutrition or diet, or a missed meal in the previous 24 hours

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the chain of command

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NDIVIDUAL'S GUIDE O HEAT ILLNESS

What is heat illness?



Heat illness is when a person becomes unwell as a result of a rise in their core body temperature.

RECOGNISE IT (signs and symptoms)





Nausea or

Cramps

Agitation



vomiting or loss of co-ordination

Staggering

Disturbed vision

Confusion

Collapse or loss Dizziness of consciousness (fainting)

PREVENT IT (don't let it happen)



Prepare correctly before an activity. This includes having the right level of fitness, sleep and nutrition.

Wear the correct kit and clothing. Take layers of clothing off before or during strenuous activity (if appropriate).

Make sure you are adequately hydrated

(enough to maintain clear light-yellow urine). Hydration is essential to maximise heat loss through sweating. Make sure you drink an adequate amount of safe water before, during and after exercise in the heat. But take care to avoid overhydration and maintain salt levels.



Avoid stimulants, diuretics (caffeine), energy drinks, antihistamines, decongestants, nonsteroidal anti-inflammatory drugs (NSAIDs), opioids, methylphenidate and weight-loss or other performance-enhancing supplements before and during exercise.



Avoid alcohol before exercise.

Make sure you know who the **commander** is and tell them if you or someone else feels unwell.



Cool off – pause the activity, take off a layer, find shade.

1 Case = more at risk.

ACT QUICKLY...COOL NOW THIS IS A MEDICAL EMERGENCY

Activity

At the first sign of symptoms, do the following.



Immediately pause your activity and seek **medical help.** The commander will pause the activity for everybody else unless the chain of command has previously given authorisation for the activity to continue if there is a suspected case of heat illness.

While exercising, some fatigue and muscle discomfort is normal and does not need to be reported.

You **must** report any discomfort or physical distress that is not normal, or if you have a current illness, and **must** ask for medical attention.

If you have concerns about anybody else. vou **must** report it.

If heat illness is suspected, you should treat the casualty as follows.



Move the casualty to the shade and start to cool them down.



Strip off heavy clothing and boots, raise their feet if they are conscious.



Spray or drizzle water over the remaining light clothing.



Fan air over the casualty.



If the casualty is conscious, get them to drink cool water. If unconscious, carry out CABC (Catastrophic haemorrhage, Airway, Breathing and Circulation) checks.



Alert the commander or manager, if they are not already aware, and alert medical cover.



Consider evacuation - moderate and severe cases **must** be safely evacuated for professional medical care.



If the casualty recovers within a 30 minute period, they **should** be monitored for 4 hours and where operationally allowable, avoid activities that increase the risk of heat illness for a minimum of 48 hours.



For more information on heat illness see Annex A (Commander's guide to preventing heat illness) in JSP 375, Volume 1, Chapter 41.





