Occupational Heat Exposure

May 2024

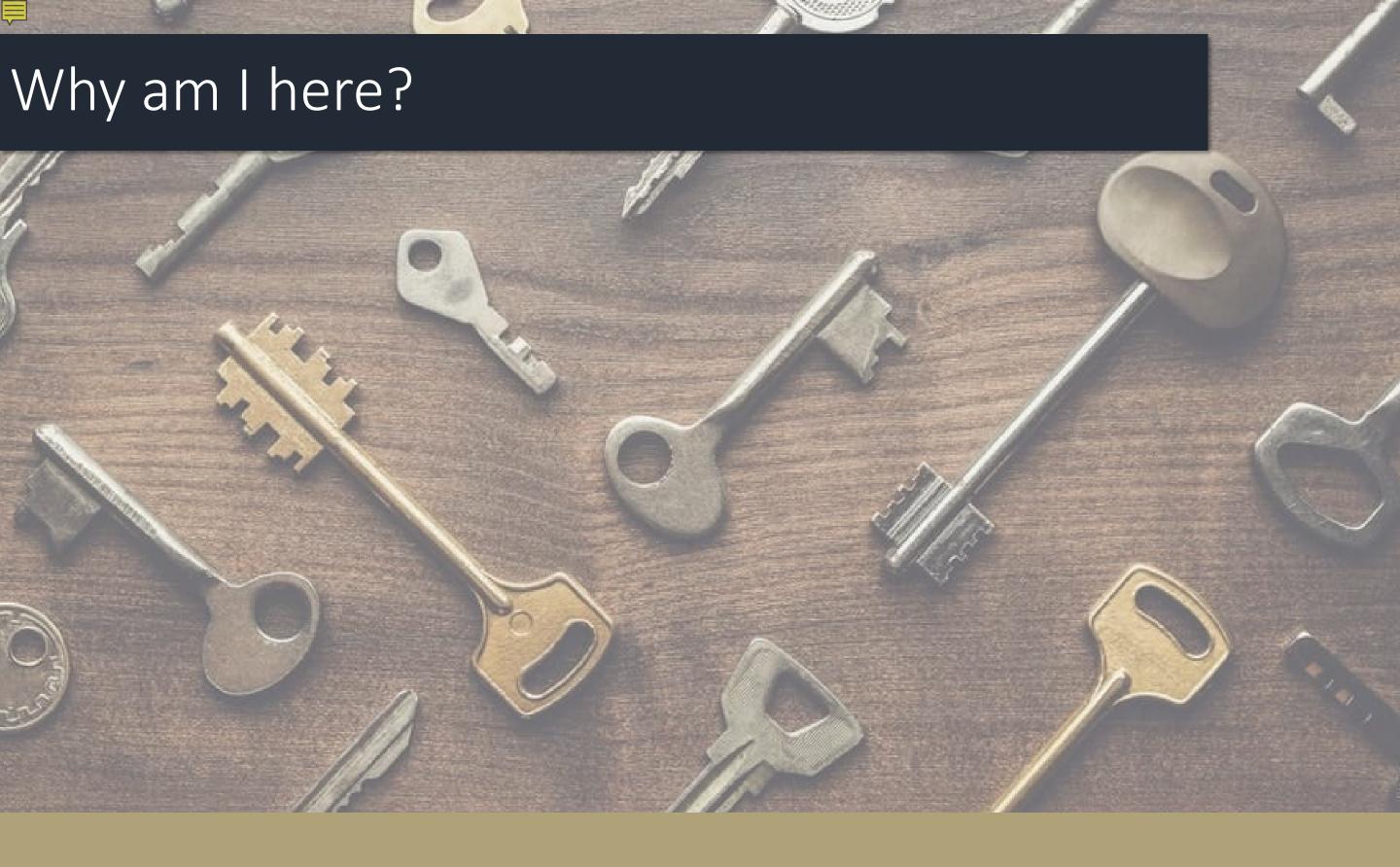
Housekeeping



Muster Point



Safety begins with me!



You are the KEY to SAFETY!

Our Bodies & Heat

The body burns calories and produces heat to keep its temperature at 98.6 degrees Fahrenheit.

Problems develop when the body's cooling mechanisms do not work properly.

What is Heat Illness?

HEAT STROKE



WHO AT RISK









OUTDOOR WORKERS

SIGN & SYMPTOM









NO SWEATING

DRY, HOT RED SKIN





VOMITING

HEAD ACHE

UNCONCIOUSNESS

PREVENTION



PINPOINT

PUPILS









COOL SHOWERING



WEAR LIGHT PROTECTION



DO NOT STAY CLOSED CAR



LIMIT **OUTDOOR TIME**



In the United States...

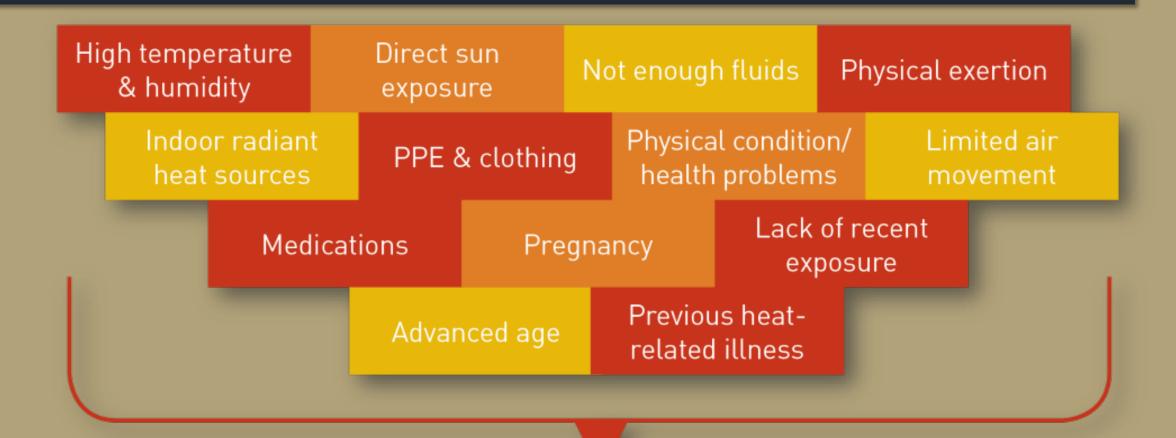
702
An average of 702 heat-related deaths occur each year.

67,512
Each year, there are 67,512
emergency department visits
due to heat, on average.

9,235
Each year, an average of 9,235 people are hospitalized due to heat.



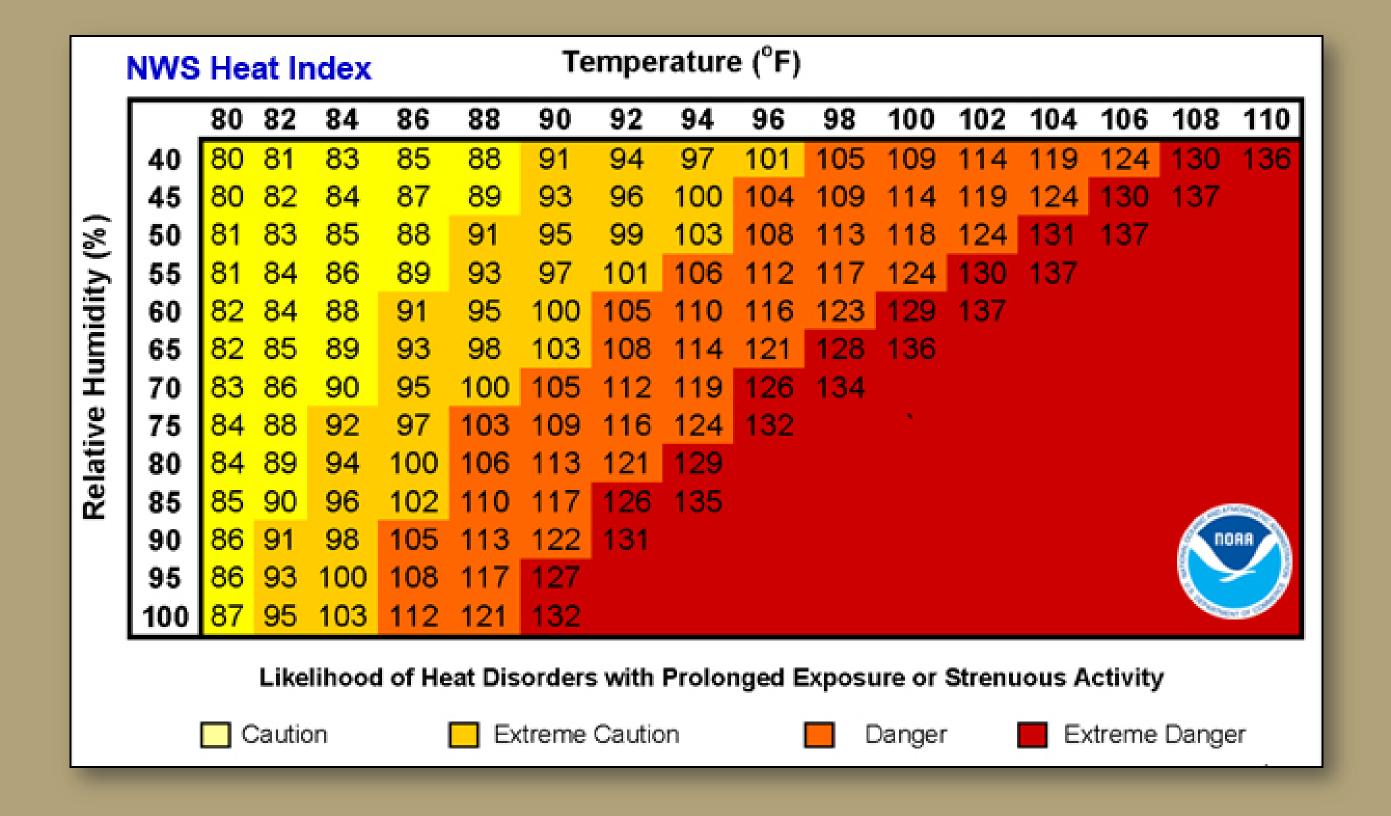
Factors that Increase Risk of Heat Illness



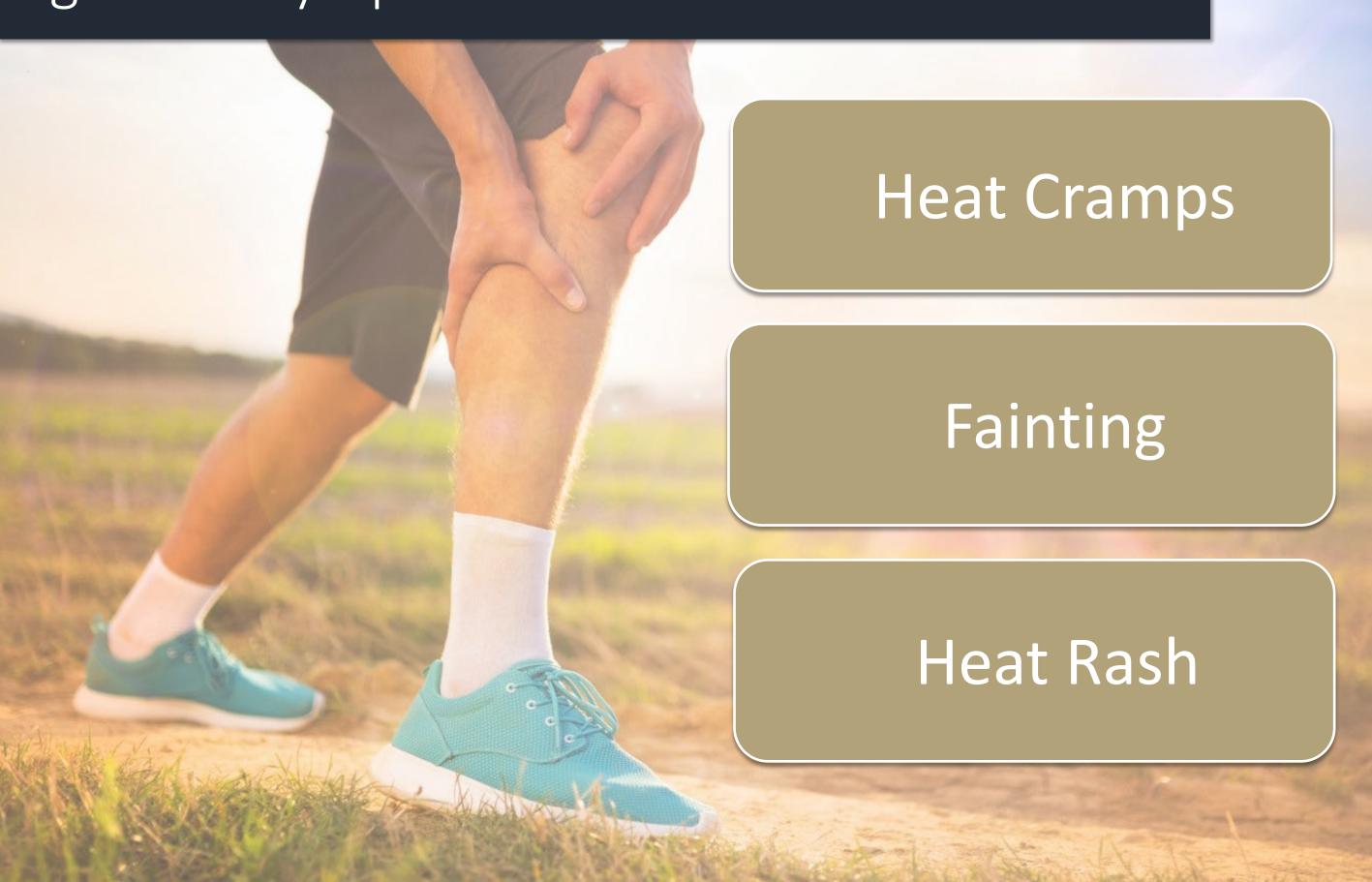


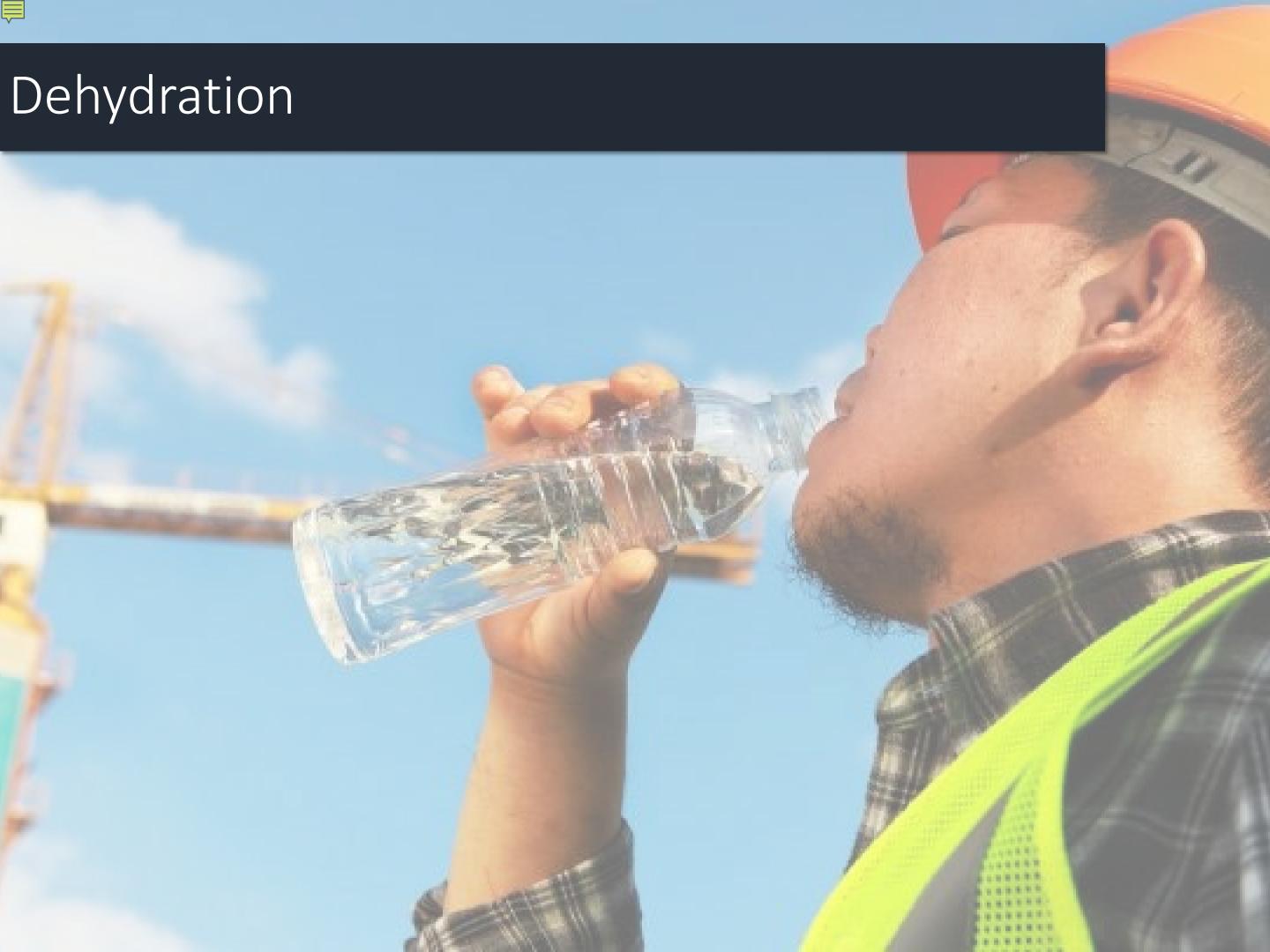


Heat Index



Signs and Symptoms of Heat Illness







The Effects of Fluid Loss On Performance

2% - Impaired Performance

4% - Capacity for muscular work declines

6% - Heat Exhaustion

8% - Hallucination

10% - Circulatory collapse and heat stroke

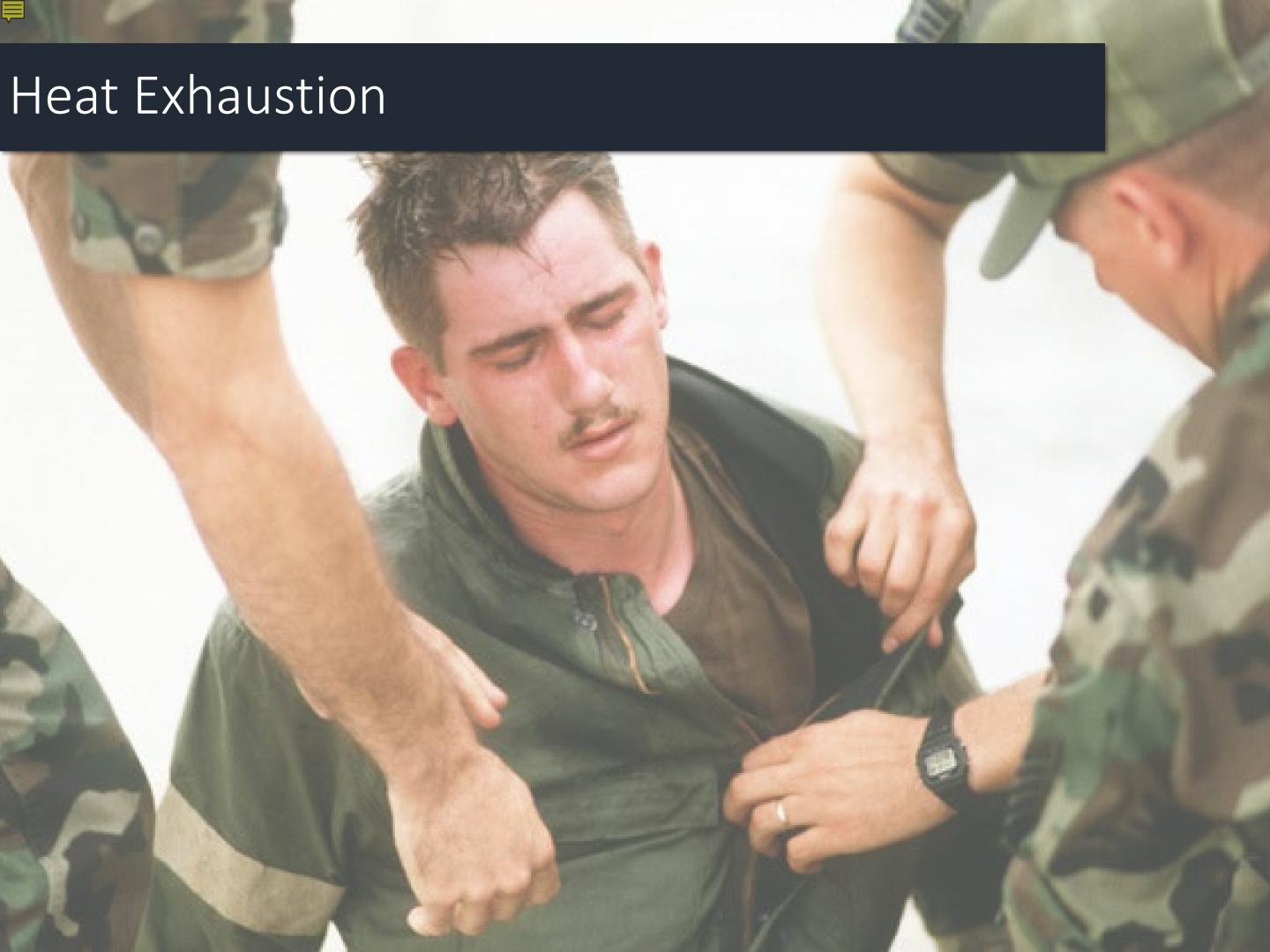




Dehydration - Video









Heat Exhaustion First Aid

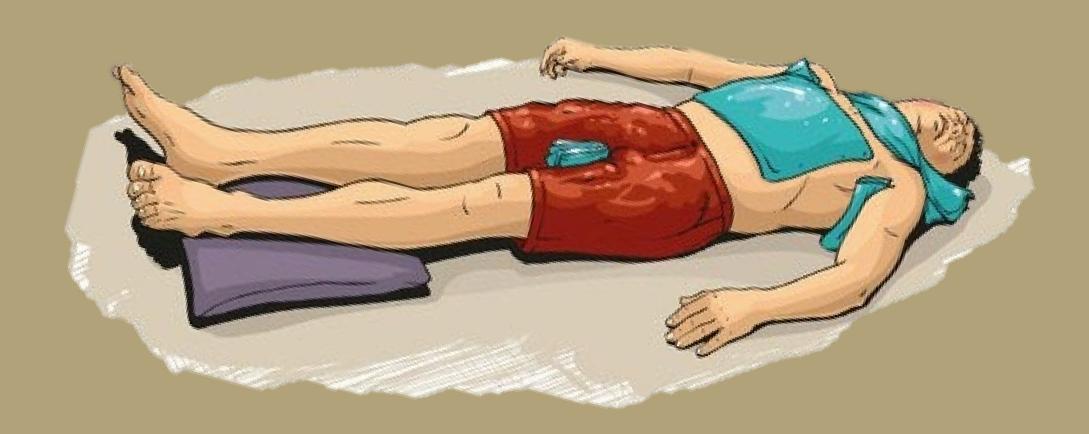
Move victim to a cool place and elevate their feet.

Keep victim lying down with legs straight and elevated 8-12 inches.

Cool the victim by applying cold packs or wet towels or cloths. Fan the victim.

Give the victim cold water if he or she is fully conscious.

If no improvement is noted in 30 minutes, seek medical attention.





Heat stroke is a medical emergency!

Symptoms of heat stroke include:

- Confusion, altered mental status, slurred speech
- Loss of consciousness (coma)
- Hot, dry skin or profuse sweating
- Seizures
- Very high body temperature
- Fatal if treatment delayed



Heat Stroke First Aid





Heat Illness Prevention

Supervisors should:

- Allow time for employees to adjust to hot jobs when possible. Adjust the work schedule, if possible.
- Reduce the workload.
- Establish a schedule for work and rest periods during hot days.
- Train workers to recognize signs and symptoms of heat stress disorders and be prepared to give first aid if necessary.
- Choose appropriate employees
- Realize individual employees vary in their tolerance to heat stress conditions.

Workers should:

- Learn to recognize the symptoms of heat stress.
- Pace the work, taking adequate rest periods.
- Use adequate fans for ventilation and cooling.
- Wear light-colored, loose clothing (unless working around equipment with moving parts).
- Keep shaded from direct heat where possible
- Drink plenty of water.

Toolbox Talk on Heat Stress Safety - Video





NIOSH Heat Safety Tool iPhone & Android App

NIOSH Heat Safety Tool iPhone & Android App





