



GREAT SALT LAKE COUNCIL

BOY SCOUTS OF AMERICA®

Roundtable Safety Spotlight: Heat Safety

As we spring into summer it is important to remember that summer heat can be dangerous - even deadly - if you don't take the proper precautions. Heat exposure has resulted in more than 8,000 deaths inside the United States over the past 10 years. With such a startling statistic, it's easy to see why it's so important to be aware of the risks associated with heat and to know how to stay safe in summer weather.

There are situations that intermittently exist during Scouting activities, including summer camp, where adverse health outcomes may occur due to high heat and humidity. Temperature, relative humidity, level of activity, and hydration combine to impact the risk for adverse health outcomes.

People normally cool their bodies by sweating, but under some conditions, sweating isn't enough. Very high body temperatures may damage the brain or other vital organs. Some conditions that can limit the ability to regulate temperature include old age, obesity, fever, dehydration, heart disease, poor circulation, sunburn, and drug and alcohol use. Summertime activity must be done in a way to aid the body's cooling mechanisms and prevent heat-related illness.

There are several tips to help manage the risk for heat exhaustion, heat injuries, heat stroke, dehydration, and other heat-related injuries when temperatures are extremely high:

Drink Plenty of Fluid - Increase your fluid intake regardless of your activity level. During heavy exercise in hot weather, drink 2-4 glasses (16-32 ounces) of cool fluids each hour. During hot weather, you will need to drink more liquid than your thirst indicates. Avoid very cold beverages to prevent stomach cramps or drinks containing alcohol or caffeine, which will actually cause you to lose more fluid. Make sure water and ice are available routinely at each program event and encourage all to routinely drink water.

Replace Salt and Minerals - Heavy sweating removes salt and minerals from the body, which are necessary for your body and must be replaced. The best way to replace salt and minerals is to drink fruit juice or a sports beverage during exercise or any work in the heat.

Wear Appropriate Clothing and Sunscreen - Choose lightweight, light-colored, loose-fitting clothing. In the hot sun, a wide-brimmed hat will keep the head cool. Long sleeve shirts and pants also protect skin from the sun's rays and can help prevent sunburn. Sunburn affects your body's ability to cool itself and causes a loss of body fluids. It also causes pain and damages the skin. A variety of sunscreens are available to reduce the risk of sunburn. Check the sun protection factor (SPF) number on the label of the sunscreen container. Select SPF 15 or higher and follow package directions.

Slow down - Strenuous activities should be reduced, eliminated, or rescheduled to the coolest time of the day. Individuals at risk should stay in the coolest available place, not necessarily indoors.

Pace Yourself - If you are unaccustomed to working or exercising in hot weather, start slowly and pick up the pace gradually. If exertion in the heat makes your heart pound and leaves you gasping for breath, stop all activity, get into a cool or shady area, and rest, especially if you become lightheaded, confused, weak, or feel faint.

Stay Cool Indoors - The most efficient way to beat the heat is to stay in an air conditioned area. Do not rely on electric fans as your primary cooling device during a heat wave. When the temperature is in the high 90s or higher, a fan will not prevent heat-related illness. A cool shower or bath is a more effective way to cool off. Keep blinds and curtains closed from morning until the late afternoon to block extra direct heat from sunlight.

Schedule Outdoor Activities Carefully - If you must be out in the heat, plan your activities so that you are outdoors either before noon or in the evening. While outdoors, rest frequently in a shady area.

Use a Buddy System - When working in the heat, monitor the condition of your fellow Scouts and have someone do the same for you. If you are 65 years of age or older, have a friend or relative call to check on you twice a day during a heat wave. If you know anyone in this age group, check on them at least twice a day.

Monitor Those at High Risk - Those at greatest risk of heat-related illness include:

- infants and children up to four years of age;
- people who overexert during work or exercise;
- people 65 years of age or older;
- people who are ill or on certain medications.
- people who are overweight.

If you or someone you know is at higher risk, it is important to drink plenty of fluids and avoid overexertion.

Adjust to the Environment - Be aware that any sudden change in temperature, such as an early summer heat wave, will be stressful to your body. You will have a greater tolerance for the heat if you limit your physical activity until you become accustomed to the heat

Use Common Sense - Avoid hot foods and heavy meals; they add heat to your body. Do not leave infants, children, or pets in a parked car. Bring your pets indoors with you to protect them. Dress infants and young children in cool, loose clothing and shade their heads and faces with hats or an umbrella. Limit sun exposure during the midday hours and in places of potential severe exposure, such as beaches. Ensure that infants and children drink adequate amounts of liquids. Give your outdoor animals plenty of fresh water, leave the water in a shady area, and consider wetting the animal down.

Watch for Heat Stroke and Heat Exhaustion - Two common problems are heat stroke and heat exhaustion. Heat stroke occurs when the body becomes unable to control its temperature. The body's temperature rises rapidly, the sweating mechanism fails, and the body is unable to cool down. Body temperature may rise to 106°F or higher. Heat stroke can cause death or permanent disability if emergency treatment is not given. Heat exhaustion is the body's response to an excessive loss of water and salt contained in sweat. Those most prone to heat exhaustion are elderly people and people working or exercising in a hot environment.

Warning signs of heat stroke vary but may include:

- an extremely high body temperature (above 103°F, orally)
- unconsciousness
- dizziness, nausea, and confusion
- red, hot, and dry skin (no sweating)
- rapid, strong pulse
- throbbing headache.

Warning signs of heat exhaustion vary but may include:

- heavy sweating
- muscle cramps
- weakness
- headache
- nausea or vomiting
- paleness, tiredness, dizziness

What to Do

If you see any of these signs, you may be dealing with a life-threatening emergency. Have someone call for immediate medical assistance while you begin cooling the victim:

- Get the victim to a shady area.
- Cool the victim rapidly using whatever methods you can. For example, immerse the victim in a tub of cool water; place in a cool shower; spray with cool water from a garden hose; sponge with cool water; or if the humidity is low, wrap the victim in a cool, wet sheet and fan him or her vigorously.
- Monitor body temperature, and continue cooling efforts until the body temperature drops to 101°F.
- If emergency medical personnel are delayed, call the hospital emergency room for further instructions.
- Do not give the victim alcohol to drink.
- Get medical assistance as soon as possible.

Sometimes a victim's muscles will begin to twitch uncontrollably as a result of heat stroke. If this happens, keep the victim from injuring himself, but do not place any object in the mouth and do not give fluids. If there is vomiting, make sure the airway remains open by turning the victim on his or her side.

These self-help measures are not a substitute for medical care but may help you recognize and respond promptly to warning signs of trouble. Your best defense against heat-related illness is prevention.

Staying cool and making simple changes in your fluid intake, activities, and clothing during hot weather can help you remain safe and healthy.