

Disaster Relief

Tips for Preventing Heat-Related Illness

The best defense is prevention. Here are some prevention tips:

- Drink more fluids (nonalcoholic), regardless of your activity level. Don't wait until you're thirsty to drink.
Warning: If your doctor generally limits the amount of fluid you drink or has you on water pills, ask him how much you should drink while the weather is hot.
- Don't drink liquids that contain caffeine, alcohol, or large amounts of sugar – these actually cause you to lose more body fluid. Also, avoid very cold drinks, because they can cause stomach cramps.
- Stay indoors and, if at all possible, stay in an air-conditioned place. If your home does not have air conditioning, go to the shopping mall or public library – even a few hours spent in air conditioning can help your body stay cooler when you go back into the heat. Call your local health department to see if there are any heat-relief shelters in your area.
- Electric fans may provide comfort, but when the temperature is in the high 90s, fans will not prevent heat-related illness. Taking a cool shower or bath or moving to an air-conditioned place is a much better way to cool off.
- Wear lightweight, light-colored, loose-fitting clothing.
- NEVER leave anyone in a closed, parked vehicle.
- Although anyone at any time can suffer from heat-related illness, some people are at greater risk than others. Check regularly on:
 - Infants and young children
 - People aged 65 or older
 - People who have a mental illness
 - Those who are physically ill, especially with heart disease or high blood pressure
- Visit adults at risk at least twice a day and closely watch them for signs

of heat exhaustion or heat stroke. Infants and young children, of course, need much more frequent watching.

If you must be out in the heat:

- Limit your outdoor activity to morning and evening hours.
- Cut down on exercise. If you must exercise, drink two to four glasses of cool, nonalcoholic fluids each hour. A sports beverage can replace the salt and minerals you lose in sweat.
Warning: If you are on a low-salt diet, talk with your doctor before drinking a sports beverage. Remember the warning in the first “tip” (above), too.
- Try to rest often in shady areas.
- Protect yourself from the sun by wearing a wide-brimmed hat (also keeps you cooler) and sunglasses and by putting on sunscreen of SPF 15 or higher (the most effective products say “broad spectrum” or “UVA/UVB protection” on their labels).

This information provided by NCEH's Health Studies Branch (www.cdc.gov/nceh/hsb). For more information, visit www.bt.cdc.gov/disasters/extremeheat, or call the CDC public response hotline at (888) 246-2675 (English), (888) 246-2857 (español), or (866) 874-2646 (TTY).

Heat Stress in the Elderly

Elderly people (that is, people aged 65 years and older) are more prone to heat stress than younger people for several reasons:

- Elderly people do not adjust as well as young people to sudden changes in temperature.
- They are more likely to have a chronic medical condition that upsets normal body responses to heat.
- They are more likely to take prescription medicines that impair the body's ability to regulate its temperature or that inhibit perspiration.



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Heat Stroke

Heat stroke is the most serious heat-related illness. It occurs when the body becomes unable to control its temperature: the body's temperature rises rapidly, the body loses its ability to sweat, and it is unable to cool down. Body temperatures rise to 106°F or higher within 10 to 15 minutes. Heat stroke can cause death or permanent disability if emergency treatment is not provided.

Signs and Symptoms of Heat Stroke

Warning signs vary but may include the following:

- An extremely high body temperature (above 103°F)
- Red, hot, and dry skin (no sweating)
- Rapid, strong pulse
- Throbbing headache
- Dizziness
- Nausea

Heat Exhaustion

Heat exhaustion is a milder form of heat-related illness that can develop after several days of exposure to high temperatures and inadequate or unbalanced replacement of fluids.

Signs and Symptoms of Heat Exhaustion

Warning signs vary but may include the following:

- Heavy sweating
- Paleness
- Muscle Cramps
- Tiredness
- Weakness
- Dizziness
- Headache
- Nausea or vomiting
- Fainting
- Skin: may be cool and moist
- Pulse rate: fast and weak
- Breathing: fast and shallow

What You Can Do To Protect Yourself

You can follow these prevention tips to protect yourself from heat-related stress:

- Drink cool, nonalcoholic, noncaffeinated beverages. (If your doctor generally limits the amount of fluid you drink or has you on water pills, ask him how much you should drink when the weather is hot. Also, avoid extremely cold liquids because they can cause cramps.)
- Rest.
- Take a cool shower, bath, or sponge bath.
- If possible, seek an air-conditioned environment.

(If you don't have air conditioning, consider visiting an air-conditioned shopping mall or public library to cool off.)

- Wear lightweight clothing.
- If possible, remain indoors in the heat of the day.
- Do not engage in strenuous activities.

What You Can Do To Help Protect Elderly Relatives and Neighbors

If you have elderly relatives or neighbors, you can help them protect themselves from heat related stress:

- Visit older adults at risk at least twice a day and watch them for signs of heat exhaustion or heat stroke.
- Take them to air-conditioned locations if they have transportation problems.
- Make sure older adults have access to an electric fan whenever possible.

What You Can Do for Someone With Heat Stress

If you see any signs of severe heat stress, you may be dealing with a life-threatening emergency. Have someone call for immediate medical assistance while you begin cooling the affected person. Do the following:

- Get the person to a shady area.
- Cool the person rapidly, using whatever methods you can. For example, immerse the person in a tub of cool water; place the person in a cool shower; spray the person with cool water from a garden hose; sponge the person with cool water; or if the humidity is low, wrap the person 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 - 102°F
- If emergency medical personnel are delayed, call the hospital emergency room for further instructions.
- Do not give the person alcohol to drink.
- Get medical assistance as soon as possible.

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