HEAT STRESS PREVENTION



CAUSES



SIGNS/TREATMENT/PREVENTION



SUN BURN

SIGNS: Redness, painful and swelling skin. Blisters, fever and headaches are typical in severe cases. TREATMENT: Use ointment in mild

cases. If blisters break apply dry, sterile

dressing. For severe cases, consult a physician.

PREVENTION: Limit your time in the sun and stay in shaded areas when possible. Wear sunscreen and hats while outside. Training and education.



HEAT RASH

SIGNS: Red blister-like eruptions and/or bumps, itch sensation. **TREATMENT:** Rest in cool place. Allow skin to dry. PREVENTION: Shower after working in

hot environment. Keep skin dry. Training and education.



HEAT CRAMPS

SIGNS: Painful spasms usually in the leg or abdomen. Possibly heavy sweating.

TREATMENT: Apply firm pressure and massage cramped area. Rest in cool place and drink water PREVENTION: Adequate water and salt intake. Training and education.



HEAT EXHAUSTION

SIGNS: Headaches, weakness, mood change, feeling sick. Extreme sweating, pale and clammy skin. TREATMENT: Move to cool, shaded area and loosen heavy clothing. Drink cool water and/or electrolytes. **PREVENTION:** Acclimatization. Drink plenty of water and/or electrolytes. Training and education.



EXERTIONAL HEAT ILLNESS

SIGNS: Tired, nausea, vomiting, confusion. Unsteady, extreme sweating, dehydration, fever up to 104°F, headache, rapid respiration/-

pulse. TREATMENT: Cease exertion/cool body exterior. Drink water first. then electrolytes. If fluids aren't retained transport to hospital. **PREVENTION:** Acclimatization. Drink plenty of water and/or electrolytes. Training and education.



HEAT STROKE

SIGNS: Pale skin, nausea, vomiting, confusion. Fever 104°F / 40°C or higher.

TREATMENT: Medical emergency, call 911. Remove heavy clothing. Drink small amounts of water and/or electrolytes.

PREVENTION: Acclimatization. Drink plenty of water and/or electrolytes. Medical screening, training and education.

Heat Index & Heat Stroke

Heat Index 130° or higher **Heat Stroke or Sun Stroke Imminent**

Heat Index 105°-129° Sun stroke, heat cramps and heat

exhaustion likely. Heat stroke possible with prolonged exposure and physical activity

90°

95°

85°

How to use the heat index.

1. Access top (air temperature) locate today's predicted high temperature.

2. Down left side (relative humidity) locate today's predicted humidity.

75°

Apparent Temperature (Degrees Fahrenheit)

80°

3. Follow across and down to find "Apparent Temperature" or "What it feels like".

70°

Air

Temp. Relative Humidity Heat index values were devised for shady, light wind conditions. Exposure to full sun can

Heat Index 90°-100°

Sun stroke, heat cramps and heat

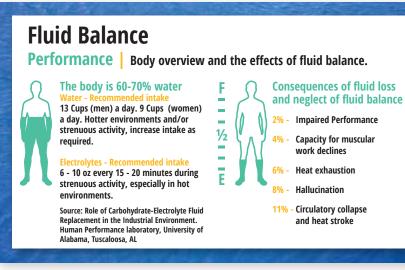
exhaustion possible with prolonged

exposure and physical activity.

increase values by up to 15°. Strong winds, particularly with hot, dry air can be extremely hazardous.

105°

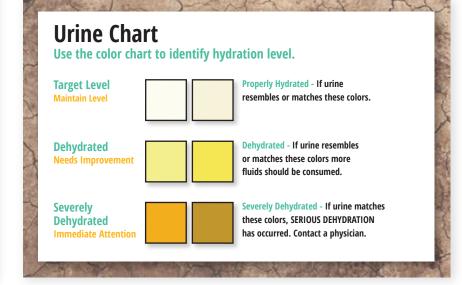
110°



Source: Centers for Disease Control and Prevention

100°

0% 64° 69° 73° 78° 83° **87°** 91° 95° 99° 70° 80° 10% 65° 75° 85° 95° 90° 100° 105° **82°** 77° 87° 20% 66° 72° 93° 99° 105° 112° 30% 67° 73° 78° 84° 90° 96° 104° 113° 123° 101° 40% 68° 74° 79° 86° 93° 110° 137° 122° 81° 50% 69° 88° 96° 75° 107° 120° 135° 150° 60% 70° 76° 82° 90° 132° 100° 114[°] 149° 70% 71° 77° 85° 93° 124° 144° 106^o 80% 72° 86° 78° 97° 136° 157° 113° 88° 90% 73° 79° 102[°] 122° 147° 170° 100% 74° 80° 91° **108**° 133° **161**'



IN CASE OF EMERGENCY **CALL 911**