# HEAT STRESS PREVENTION



800.669.1677 | orrsafety.com

## **CAUSES**



**OVEREXERTION** 



**DEHYDRATION** 

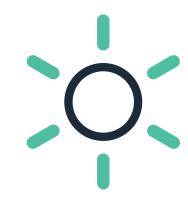


**EXTREME TEMPERATURES** 



**OVERDRESSING** 

## 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.

Heat Index 90°-100°

Sun stroke, heat cramps and heat exhaustion possible with prolonged exposure and physical activity.

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

Heat index values were devised for shady, light wind conditions. Exposure to full sun can increase values by up to 15°. Strong winds, particularly with hot, dry air can be extremely hazardous.

Source: Centers for Disease Control and Prevention

Air Temp.	70°	75°	80°	85°	90°	95°	100°	105°	110°
Relative Humidity	Apparent Temperature (Degrees Fahrenheit)								<b>→</b>
0%	64°	69°	73°	78°	83°	87°	91°	95°	99°
10%	65°	70°	75°	80°	85°	90°	95°	100°	105°
20%	66°	72°	77°	82°	87°	93°	99°	105°	112°
30%	67°	73°	78°	84°	90°	96°	104°	113°	123°
40%	68°	74°	79°	86°	93°	101°	110°	122°	137°
50%	69°	75°	81°	88°	96°	107°	120°	135°	150°
60%	70°	76°	82°	90°	100°	114°	132°	149°	
70%	71°	77°	85°	93°	106°	124°	144°		
80%	72°	78°	86° /	97°	113°	136°	157°		
90%	73°	79°	88°	102°	122°	147°	170°		
100%	74°	80°	91°	108°	133°	161°			

