

PROTECT YOURSELF AND OTHERS FROM HYPOTHERMIA AND FROSTBITE

Workers who are exposed to extreme cold or work in cold environments may be at risk of cold stress. Extremely cold or wet weather is a dangerous situation that can cause occupational illness and injuries such as hypothermia and frostbite.

HYPOTHERMIA

Hypothermia is a medical emergency that occurs when your body loses heat faster than it can produce heat, causing a dangerously low body temperature. Hypothermia is often caused by exposure to cold weather or immersion in cold water.

According to Mayo Clinic, when your body temperature drops, your heart, nervous system and other organs can't work normally. Left untreated, hypothermia can lead to complete failure of your heart and respiratory system and eventually to death.

SYMPTOMS OF HYPOTHERMIA

EARLY SYMPTOMS

SHIVERING

FATIGUE

LOSS OF COORDINATION

CONFUSION AND DISORIENTATION

LATE SYMPTOMS

NO SHIVERING

BLUE SKIN

DIALATED PUPILS

SLOWED PULSE AND BREATHING

LOSS OF CONSCIOUSNESS

HYPOTHERMIA FIRST AID

REQUEST IMMEDIATE MEDICAL ASSSITANCE

MOVE THE VICTIM INTO A WARM ROOM OR SHELTER

REMOVE WET CLOTHING

WARM THE CENTER OF THEIR BODY FIRST - CHEST, NECK, HEAD AND GROIN

WARM BEVERAGES MAY HELP INCREASE THE BODY TEMPERATURE

KEEP THEM DRY AND WRAPPED IN A WARM BLANKET

IF NO PULSE, BEGIN CPR

FROSTBITE

Frostbite is a type of injury caused by freezing. According to the Centers for Disease Control (CDC), It leads to a loss of feeling and color in the areas it affects, usually extremities such as the nose, ears, cheeks, chin, fingers and toes. Frostbite can permanently damage the body, and severe cases can lead to amputation (removing the affected body part).

SYMPTOMS OF FROSTBITE

REDUCED BLOOD FLOW TO HANDS AND FEET

NUMBNESS

CHING

TINGLING OR STINGING

WAXY SKIN TEXTURE

SKIN THAT LOOKS RED, WHITE, BLUISH-WHITE, GRAYISH-YELLOW, PURPLISH, BROWN OR ASHEN, DEPENDING ON THE SEVERITY OF THE CONDITION AND USUAL SKIN COLOR

FROSTBITE FIRST AID

GET INTO A WARM ROOM AS SOON AS POSSIBLE

UNLESS NECESSARY, DO NOT WALK ON FROSTBITTEN FEET OR TOES

IMMERSE THE AFFECTED AREA IN WARM (NOT HOT) WATER

WARM THE AFFECTED AREA USING BODY HEAT. DO NOT USE A HEATING PAD.

WARM BEVERAGES MAY HELP INCREASE THE BODY TEMPERATURE

DO NOT MASSAGE THE FROSTBITTEN AREA TO AVOID MORE DAMAGE

WHAT YOU CAN DO TO PROTECT YOURSELF AND OTHERS

MONITOR YOUR PHYSICAL CONDITION AND THAT OF YOUR COWORKERS.

WEAR APPROPRIATE CLOTHING. OSHA RECOMMENDS WEARING THREE LAYERS OF CLOTHES.

WEAR SEVERAL LAYERS OF LOOSE CLOTHING FOR INSULATION BECAUSE TIGHT CLOTHING REDUCES BLOOD CIRCULATION TO THE EXTREMETIES.

BE AWARE THAT SOME CLOTHING MAY RESTRICT MOVEMENT RESULTING IN A HAZARDOUS SITUATION.

PROTECT THE EARS, FACE, HANDS AND FEET IN EXTREMELY COLD OR WET WEATHER.

BOOTS SHOULD BE WATERPROOF AND INSULATED

WEAR A HAT TO REDUCE THE LOSS OF BODY HEAT FROM YOUR HEAD

MOVE INTO WARM LOCATIONS DURING BREAKS: LIMIT THE AMOUNT OF TIME OUTSIDE.

CARRY EXTRA SOCKS, GLOVES, HATS, JACKET, BLANKETS, A CHANGE OF CLOTHES AND A THEROMS OF HOT LIQUID

INCLUDE CHEMICAL HOT PACKS IN YOUR FIRST AID KIT.

AVOID TOUCHING COLD METAL SURFACES WITH BARE SKIN.

*Changes in the color of the affected area may vary according to skin color, please reference all symptoms listed when determining if an employee has been exposed.

Sources

"Frostbite." Mayo Clinic, 27 April 2022. Mayo Clinic, https://www.mayoclinic.org/diseases-conditions/frostbite/symptoms-causes/syc-20372656.

"Prevent Hypothermia & Frostbite." Centers for Disease Control, 8 Feb. 2019. CDC, https://www.cdc.gov/disasters/winter/staysafe/hypothermia.html