WINTER PREPAREDNESS





PROTECT CLIENTS FROM THE COLD

People with disabilities may want to take extra care during the cold weather season.

Some disabling conditions may limit sensory abilities and the ability to maintain body heat.

TIPS

Wear multiple layers of clothing and include:

- A scarf around the neck
- A winter hat
- Mittens with a pair of thermal gloves beneath if possible
- Boots waterproof, insulated for warmth and to help prevent slipping on ice
- Two pairs of socks





CONDITIONS CAUSED BY THE COLD

Cold weather exposure can lead to frostnip, frostbite, hypothermia, and chilblains.

FROSTNIP

Frostnip is a milder form of cold injury. It usually affects areas of skin exposed to the cold, such as the cheeks, nose, ears, fingers, and toes, leaving them red and numb or tingly.

Frostnip gets better with rewarming.

FROSTBITE

Occurs when skin is exposed to a temperature lower than 14-degree F (-10 degree C).





FROSTBITE:

With superficial frostbite, the skin feels warm.

A fluid-filled blister may appear 12 to 36 hours after rewarming the skin.

With deep frostbite there may be numbress.

Joints or muscles may stop working.

Large blisters may form 24 to 48 hours after rewarming. The tissue turns black and hard as it dies.

Frostbite requires prompt medical attention.

TO TREAT

Get into a warm environment. Remove wet clothing. Rewarm in warm water. If warm water unavailable, wrap in warm blankets or use body heat.



Since skin may be numb, victims of frostbite can harm themselves further. Use caution when treating frostbite and:







WARMING



UNLESS NECESSARY, DO NOT USE A FIREPLACE, HEAT DO NOT WALK ON FEET OR TOES LAMP, RADIATOR, WITH FROSTBITE OR STOVE FOR WARMING

DO NOT USE A HEATING PAD OR ELECTRIC **BLANKET FOR**

DO NOT RUB OR MASSAGE AREAS WITH FROSTBITE



TO RE-WARM

Immerse chilled parts in warm, not hot, water (about 100°F) for 20 to 30 minutes until sensation returns.

Numb hands or feet will not feel the temperature of the water and severe burns can result if the water is too hot.

RE-WARMING FROSTBITE



- Re-warming is accompanied by a burning sensation.
- The skin might blister and swell; might turn blue, red, or purple.
- When a person's skin is pink and is no longer numb, the area is thawed.
- Do not thaw areas of a person's skin that are frostbitten if there is a risk for refreezing before medical attention is available.
- Skin that is thawed and then re-frozen may result in severe tissue damage.

PREVENTION

- Monitor for early signs of frostnip or frostbite.
- Dress in layered and warm clothing.
- Cover parts of body most prone to frostbite.
- Use inner layers that absorb moisture.
- Use outer layers that are waterproof and windproof.
- Go indoors to warm at regular intervals.

FROSTBITE

SYMPTOMS

- Surface skin damage
- O Numb skin
- Loss of feeling

PREVENTION

- Avoiding temperatures below –15 °C
- Avoiding moisture
- Layering clothing
- O Using warming devices



HYPOTHERMIA

- Body core temperature drops below the required temperature for normal metabolism and body function defined as 95 degrees F.
- Hypothermia can quickly become life threatening.









RISKS FOR Hypothermia

- Persons with intellectual disabilities or physical disabilities such as cerebral palsy are also at higher risk for hypothermia.
- Some may not know how to keep warm when exposed to the cold.
- Persons who cannot move their bodies easily cannot generate heat from muscle movement. They may also not be able to cover exposed parts of their skin.



RISK FROM MEDICATIONS:

Medications which affect thermoregulation include:

- \bullet Sedatives or sleeping pills.
- Tranquilizers (benzodiazepines) such as lorazepam.
- Antidepressants, antipsychotics.
 Some heart drugs including beta blockers and clonidine.







STAGES OF HYPOTHERMIA: MILD

- Temperature: 90 to 95°F
 (32 to 35°C)
- Shivering, goose bumps.
- Cold to touch.
- Bluish skin.
- Confusion, memory problems.
- Trouble speaking.
- Lack of coordination.





STAGES OF HYPOTHERMIA: MODERATE

Temperature:82 to 90°F (28 to 32°C)
 Shivering stops
 Sleepiness
 Hallucinations



STAGES OF HYPOTHERMIA: SEVERE

- ✤ Temperature: less than 82°F (28°C)
- Stiffness.
- Loss of consciousness or coma.
- Breathing stops.
- Heart stops.







TREATMENT

- Protect person against wind, drafts and further heat loss.
- Begin rewarming with extra clothing and warm blankets.
- Take the person's temperature if possible.



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WHAT NOT TO DO:

Hot packs or heating pads should be avoided as these can cause burns to the skin.

- Avoid alcohol and caffeine which speed up heat loss.
- Do not briskly rub or massage the person's extremities as with severe hypothermia; this muscle activity can cause the heart to stop.



PREVENTION OF HYPOTHERMIA

- Avoid staying out in the cold for long periods of time.
- Dress warmly and in layers.
- Head for a shelter that will protect from wind or rain if you are wet or cold.
- Avoid activities that cause increased sweating. Sweating increases heat loss through evaporation and will cause you to feel cold.
- Avoid touching metal, especially with wet hands, because it will make you feel colder and may cause frostbite.



Dress appropriately: include thermals, woollen socks, beanies, gloves, heavy-duty boots, waterproof pants and jacket





CHILBLAINS

- Chilblains are thought to result from an abnormal vascular response to the cold.
- Persons are more at risk for getting chilblains if they use nicotine or other drugs that reduce blood flow to the extremities.



SYMPTOMS

- Itchy, painful, reddish or purplish areas of swelling usually affecting fingers, toes, nose or ears.
- Blisters or small open sores may develop.
- Symptoms may last for several days.
- After healing, the area may be very sensitive to the cold in the future







PREVENTION OF CHILBLAINS

- Avoid or limit exposure to cold.
- When coming in from the cold, rewarm the skin gradually.
- Dress in layers of loose clothing and wear mittens, a scarf and a hat, and warm, water-resistant footwear.



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Thank you Jean Justad, MD Medical Director DDP 2023

