



# EMSA-Intermediate Treatment Protocol 5503

## Environmental Emergencies Cold Exposure

Page 1 of 2

When cold exposure affects the entire body, hypothermia or general cooling develops. When cold exposure affects a particular body part, local cooling or frostbite occurs. Frostbite most commonly affects the ears, nose, face, hands, feet, and toes.

A. General treatment:

1. Place patient in warm environment.
2. Perform **MAMP Protocol 5201** section with warm humidified oxygen and warmed IV fluids.
3. Remove all wet clothing.
4. Insulate core (head, neck, and trunk) with warm blankets.
5. Rapid smooth transport.

B. If patient is hypothermic and alert and responding appropriately:

1. Keep the patient still and handle very gently.
2. Actively rewarm the patient by applying heat packs, hot water bottles, or electric heating pads to neck, chest, and abdomen.
3. Allow patient to slowly drink warm fluids, but do not allow patient to drink stimulants.

4. In **consultation with Medical Command**, establish mode (ground vs. air) and destination of transport



5. Monitor vital signs closely during transport.



# EMSA-Intermediate Treatment Protocol 5503

## Environmental Emergencies Cold Exposure

Page 2 of 2

- C. If patient is hypothermic and unconscious or not responding appropriately:
1. Handle patient as gently as possible and expedite transport.
  2. Wrap patient in insulated blankets for passive rewarming only.
  3. Give nothing by mouth.
  4. Continue IV normal saline at KVO.
  5. If patient has no pulse, perform **CAT** and CPR with the following cautions:
    - a. Check pulse for at least 60 seconds.
    - b. Defibrillate VF/VT **max** 3 shocks (200, 300, 360).
    - c. Withhold IV medications till patient is rewarmed to core temperature of >86 degree F.
  6. Expedite transport.
  7. In **consultation with Medical Command**, establish mode (ground vs. air) and destination of transport.
  8. Further treatment per **order of Medical Command**.



- D. Frostbite.
1. Remove constrictive clothing and jewelry and cover with dry dressing.
  2. **Do not** rub or massage area or break blisters. **Do not** apply direct heat. **Do not** allow patient to use affected area. **Do not** re-expose to cold.
  3. Transport and notify Medical Command.