Hypothermia | Cold Exposure

Hypothermia may be <u>primary</u> (i.e. due to increased loss of heat) or <u>secondary</u> (i.e. due to another condition causing decreased heat production). Consider secondary causes in your differential diagnosis: sepsis, toxins, psychiatric illness, hypoglycemia, hypothyroidism, CNS dysfunction (e.g. stroke, head injury)

Routine Medical Care / Trauma Care¹ Hypothermia can occur even in Early signs of Frostbite/Frostnip normal temperatures Include temperature & CBG Numbness Clinical classification: Look for associated injuries/illnesses Clumsy feeling in affected part • Mild: normal mental status, Consider Spinal Motion Restriction, White, blanched skin shivering, normal VS if trauma is suspected including body temp 32.1-Late signs of Frostbite/Frostnip 35°C (89.8-95°F) Dark, hard, woody skin • Moderate/Severe: altered Decreased or loss of sensation LOC, no shivering, \downarrow BP, Bruising or blistering skin \downarrow HR, \downarrow RR, temp <32.1°C Remove wet garments & dry patient $(89.8^{\circ}F)$ **Localized Cold Injury** Determine Systemic Hypothermia (frostbite, frostnip) Severity of Exposure Cover patient with dry sheets or hypothermic blanket(s); apply hot packs³ if available • Dress injured area in Yes Obtain 12-lead EKG² Is patient clean cloths • Start IV, apply cardiac monitor alert? Do not rub skin Monitor VS, including EtCO2 Do not break blisters • Do not allow patient to walk or stand Nο Transport to local facility Monitor for signs of worsening Yes Is there hypothermia Cover patient with dry sheets or a pulse?2 Consider transport to a Burn hypothermic blanket(s); apply Center for frostbitten extremities hot packs³ if available • Obtain 12-lead EKG No • Start IV, apply cardiac monitor Limit patient movement Monitor VS, including EtCO2 Initiate CPR Consider/treat causes of Treat as per **Hypothermia** Contact Medical Control if **Altered Mental Status Induced Cardiac Arrest** additional orders are needed Transport to local facility protocol

<u>Hypothermia can happen even in warmer regions – especially if person is elderly, septic, homeless, immersed, or altered.</u>

Colon Burka

¹ Pulse oximetry may be inaccurate if patient is cyanotic. Give oxygen if patient has any respiratory distress.

² Hypothermia may produce severe bradycardia – **take at least 45 seconds to palpate a pulse**. Do not treat physiologic bradycardia unless there is also profound hypotension unresponsive to fluids.

³ Hot packs can be activated and placed in the axillary and groin areas. Care should be taken not to place the packs directly against the patient's skin. Warm the patient compartment of ambulance during transport