**Heat Emergencies**

1. Follow General Pre-hospital Care Protocol.
2. Determine history/evidence of heat exposure.
3. Check blood glucose and treat hypoglycemia per Altered Mental Status Protocol.

**HEAT CRAMPS:**
1. Move the patient to a cool environment and attempt oral liquids.
2. Contact medical control.
3. NS IV/IO fluid bolus up to 1 liter, wide open.
   A. Patient may take oral fluid replacement rather than IV if no nausea. Allow oral intake of cool fluids or water (may use commercial sports/rehydration drinks). Do not permit patient to drink if altered mental status, abdominal pain or nausea. Avoid carbonated, alcoholic and caffeinated beverages.
4. Contact medical control.

**HEAT EXHAUSTION:**
1. Move the patient to a cool environment.
2. Remove tight clothing.
4. NS IV/IO fluid bolus up to 1 liter, wide open.
   A. Patient may take oral fluid replacement rather than IV if no nausea. Allow oral intake of cool fluids or water (may use commercial sports/rehydration drinks). Do not permit patient to drink if altered mental status, abdominal pain or nausea. Avoid carbonated, alcoholic and caffeinated beverages.
5. Contact medical control.
6. Contact medical control.

**MANAGEMENT OF PATIENT WITH EXERTIONAL HEAT STROKE**
7. Cool as quickly as possible via ice or cool-water immersion, if possible. Alternative means, such as continually misting the exposed skin with tepid water while fanning the victim, may be used if immersion is not possible.
   A. Cool as much of the body as possible, especially the torso.
8. Cool first, transport second when possible.
9. Obtain vascular access; consider resting the patient’s arm on the side of immersion tub to start IV while patient is still immersed.
10. If patient experiences seizures, refer to Seizures Protocol.
11. Monitor ECG (lead cables can go in the water).
12. If uncontrolled shivering occurs during cooling, consider midazolam per Patient Sedation Protocol.
Follow General Pre-Hospital Care Protocol

- Determine history/evidence of heat exposure

Refer to Altered Mental Status Protocol

HEAT CRAMPS

- Move patient to a cool environment
- Attempt oral liquids

Contact Medical Control

HEAT EXHAUSTION

- Move patient to a cool environment
- Remove tight clothing
- Cool patient without chiling or shivering
- NS IV/IO fluid bolus up to 1 Liter
  - Patient can take fluids by mouth if preferred and no nausea (no alcohol, carbonation, caffeine)

Contact Medical Control

HEAT STROKE

- Move patient to a cool environment
- Remove tight clothing
- Immediately cool patient without chiling or shivering
- Place patient in semi-reclining position with head elevated
- NS IV/IO fluid bolus up to 1 Liter

Contact Medical Control
EXERTIONAL HEAT STROKE

- Cool as quickly as possible via ice or cool-water immersion, if possible
- Alternative means, such as misting the skin with tepid water while fanning may be used if needed
- Cool as much of the body as possible (especially the torso)
- **Cool FIRST, transport second when possible**
- Obtain vascular access
- Monitor ECG

If the patient seizes, refer to **Seizures Protocol**

Contact Medical Control

If uncontrollable shivering occurs, consider **Patient Sedation Protocol**

**Michigan**
TRAUMA AND ENVIRONMENTAL
HEAT EMERGENCIES

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