

Pediatric Submersion/Drowning

For any submersion injury, including drowning and dive (decompression) emergencies

History

- Age
- Duration of submersion
- Water temperature
- Type of water (salt, fresh, pool, etc.)
- SCUBA Diving
- Trauma possible? (Diving into pool)

Signs and Symptoms

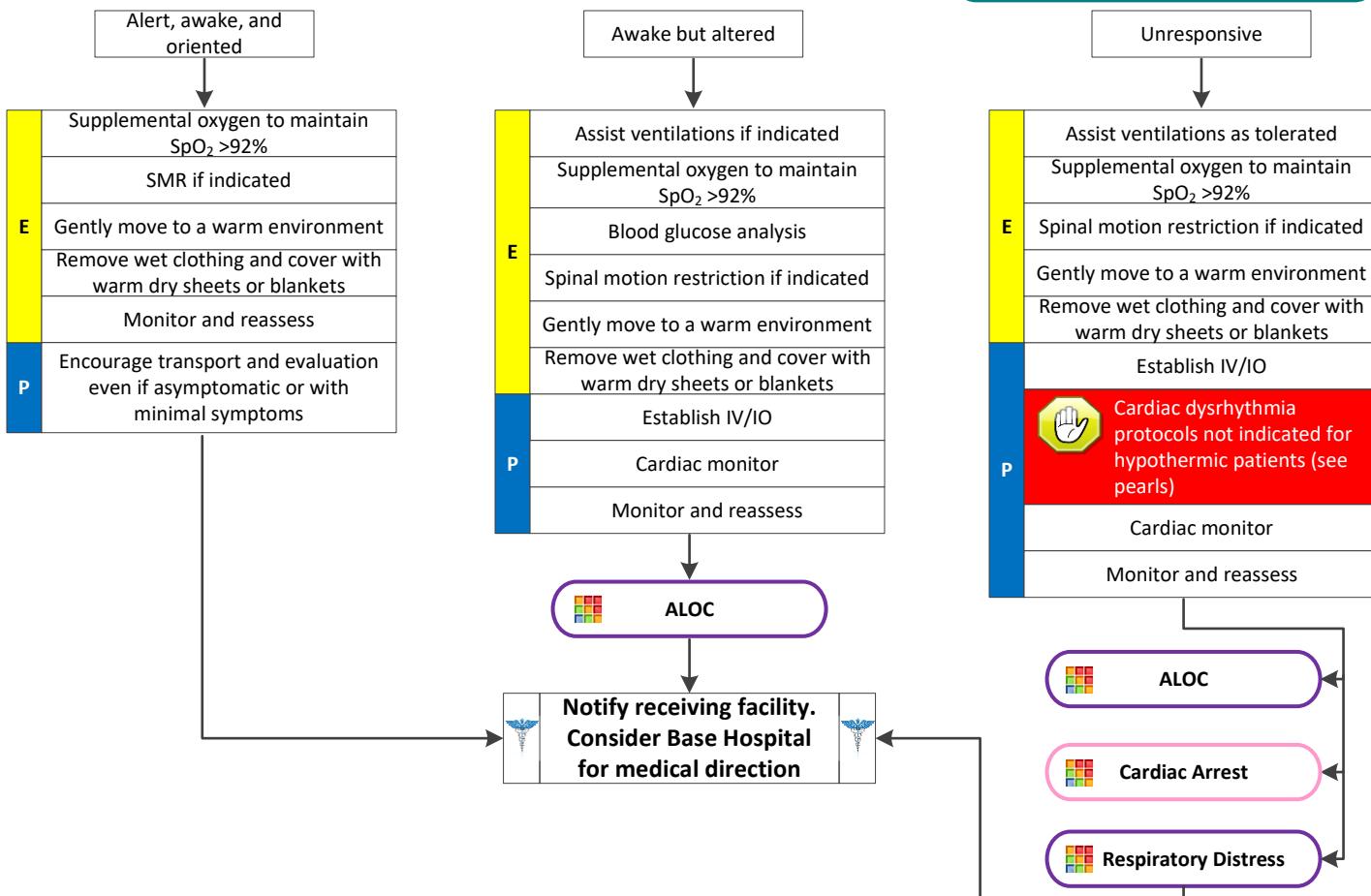
- Airway – Clear vs. Foam vs. water/vomit
- Spontaneous Breathing
- AMS
- Cold/Shivering
- Motor neuro exam/priapism
- Bradycardia

Differential

- Hypothermia
- Hypoglycemia
- CNS dysfunction
 - Seizure
 - Head injury
 - Spinal cord injury

Emergency Hyperbaric Chambers

John Muir Medical Center –
Walnut Creek

**Pearls**

- Check for pulselessness for 30-45 seconds to avoid unnecessary chest compressions.
- Defer ACLS medications in hypothermic patients until patient is warmed. Patients with hypothermia may have good neurologic outcome despite prolonged resuscitation; resuscitative efforts should continue until the patient is rewarmed.
- If V-Fib or pulseless V-Tach is present, shock x1, and defer further shocks.
- Extremes of age, malnutrition, alcohol, and other drug use are contributing factors to hypothermia.
- Patients with prolonged hypoglycemia often become hypothermic; blood glucose analysis is essential.
- If a temperature is unable to be measured, treat the patient based on the suspected temperature.
- Warm packs can be placed in the armpit and groin areas. Care should be taken not to place directly on skin.



SAN MATEO COUNTY HEALTH
EMERGENCY
MEDICAL SERVICES

Treatment Protocol PR09

Page 1 of 1
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