

APPROVED: SIGNATURE ON FILE IN EMS OFFICE  
Executive Director  
  
SIGNATURE ON FILE IN EMS OFFICE  
Medical Director

EFFECTIVE DATE 7/01/2011  
SUPERSEDES:  
REVISED:  
REVIEW DATE: 7/2016  
PAGE: 1 of 1

**HEAT ILLNESS (PEDIATRIC)**

- I. AUTHORITY: Health and Safety Code, Division 2.5, California Code of Regulations, Title 22, Division 9
- II. PURPOSE: To serve as the treatment standard for EMTs and Paramedics within their scope of practice.
- III. PROTOCOL:

**Heat Exhaustion:** Muscle cramping, fatigue, nausea, headache, normal or slightly elevated body temperature. Syncope or dizziness is almost universal.

**Heat Stroke:** Persistently altered level of consciousness and elevated body temperature (usually greater than 104° F or 40 C), tachycardia and hypotension. Sweating is variable.

<b>STANDING ORDERS</b>	
<b>HEAT EXHAUSTION</b>	
<b>ASSESS</b>	CAB
<b>OXYGEN</b>	Oxygen delivery as appropriate.
<b>COOLING MEASURES</b>	Place patient in a cool environment.
<b>HEAT STROKE</b>	
<b>ASSESS</b>	CAB
<b>SECURE AIRWAY</b>	Using the simplest effective method. A BLS airway with objective evidence of good ventilation and oxygenation is adequate and acceptable. Consider intubation only if unable to establish adequate ventilation and oxygenation using a BVM. Refer to General Procedures Protocol 554.00.
<b>COOLING MEASURES</b>	Remove heavy or insulating clothing and splash patient with water. Place ice packs on head, neck and in axilla and inguinal areas. Promote cooling by fanning. Use all available cooling measures.
<b>OXYGEN</b>	Oxygen delivery as appropriate.
<b>IV/IO ACCESS</b>	Two large bore cannulas with volume control chambers. Give 20 ml/kg boluses until Broselow tape systolic BP target. Reassess the patient after each bolus.
<b>CONSIDER</b>	
<b>ACCUCHECK</b>	Test for glucose.
<b>DEXTROSE</b>	If Blood glucose is less than 60 mg/dl: D50W 1ml/kg IV/IO for patients greater than 2 years of age, or D25W 2ml/kg IV/IO who are less than 2 years of age. May repeat once. Give oral glucose to patients who are awake and have an intact gag reflex. Recheck blood glucose in 5 minutes.
<b>GLUCAGON</b>	0.05 mg/kg IM if blood glucose is less than 60 mg/dl and no IV/IO access immediately available. Maximum dose 1 mg. May repeat once. Recheck blood glucose in 5 minutes
<b>MIDAZOLAM</b>	If seizing: 0.1 mg/kg IV/IO (maximum dose 5.0 mg.) If unable to establish IV after one attempt, give 0.2 mg/kg IM (maximum dose 5 mg.) May repeat once in 10 minutes if seizures continue.

