

**Michigan**  
**Pediatric Treatment Protocols**  
**PEDIATRIC BURNS**

Date: 9/22/15

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## ***Pediatric Burns***

### **Pre-Medical Control**

#### **MFR/EMT/SPECIALIST/PARAMEDIC**

1. Refer to **Pediatric Assessment and Treatment Protocol**
2. Determine burn extent & severity (rule of nines) or (palm = 1%)
3. Follow local MCA transport protocol.
4. Keep patient warm, avoid hypothermia

#### **THERMAL BURNS:**

1. Stop the burning process. Remove smoldering and non-adherent clothing. Irrigate with sterile water (i.e, tar adherent)
2. Assess and treat associated trauma.
3. Remove any constricting items.
4. If partial/full thickness burn is moderate to severe, more than 15% of (Total) body surface area (TBSA) cover wounds with clean dry dressings.

#### **CHEMICAL BURNS:**

1. Protect personnel from contamination.
2. Remove all clothing and constricting items.
3. Decontaminate patient prior to transport, brushing off dry chemicals prior to irrigation.
4. Assess and treat for associated injuries.
5. Evaluate for systemic symptoms, which might be caused by chemical contamination.
6. Notify receiving hospital of possible chemical contamination
7. Cover burned area in clean, dry dressing for transport.

#### **ELECTRICAL INJURY:**

1. Protect rescuers from live electric wires.
2. Remove patient from electrical source when energy source is removed.
3. Treat associated injuries, provide spinal precautions per spinal injury assessment protocol and spinal precautions procedures when indicated.
4. Assess and treat contact wound(s).

#### **PARAMEDIC**

5. Monitor patient ECG for possible arrhythmias. Treat as per specific arrhythmia protocol

#### **FOR ALL TYPES OF BURNS:**

##### **SPECIALIST/PARAMEDIC**

1. Obtain vascular access if indicated for pain management or fluid therapy.
2. If partial or full thickness burn is greater than 15% TBSA
  - A. Administer an IV/IO fluid bolus NS 20 ml/kg up to 1 liter for hypotension or burns greater than 15% TBSA burn. Repeat as indicated
  - B. If signs of shock are present bolus may be repeated at the same dose up to a maximum total of 40 ml/kg.

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3. Follow local MCA transport protocol.

**PARAMEDIC**

4. Administer Analgesic Medication, if indicated. Refer to **Pain Management Procedure**.

**Post-Medical Control**

**Thermal Burns and Electrical Injury:**

1. Additional IV/IO fluid bolus; 20 ml/kg x 2, up to 1 Liter.

**Thermal inhalation, chemical burns:**

1. Intubation per **Emergency Airway Procedure**.