# Michigan Pediatric Treatment Protocols PEDIATRIC BURNS

PEDIATRIC BURNS
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# Pediatric Burns

Date: 9/22/15

# 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.
- 5. Use cool, wet dressings in smaller burns, less than 15% BSA, for patient comfort.

### **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 set to maximum flow rate up to 1 liter for hypotension or burns greater than 15% TBSA burn. Repeat as indicated Reassess patient after bolus.



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- B. If signs of shock are present bolus may be repeated at the same dose up to a maximum total of 40 ml/kg.
- 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.



# Michigan

# **Pediatric Treatment Protocols**

PEDIATRIC BURNS

Date: 9/22/15 Page 1 of 3 Follow Pediatric Assessment & Treatment Protocol Determine burn extent and severity (rule of nines) Follow local MCA transport protocol Keep patient warm to prevent hypothermia **CHEMICAL BURNS THERMAL BURNS ELECTRICAL BURNS** Stop the burning process Protect personnel from Protect rescuers from live contaminant Remove smoldering & nonelectrical wires adherent clothing, irrigate Remove all clothing and Remove patient from with sterile water. constricting items electrical source when energy Assess & treat associated Decontaminate patient prior to source has been removed trauma transport, brushing off dry Treat associated injuries, Remove any constricting items chemicals prior to irrigation provide spinal precautions Assess & treat for associated per spinal injury assessment iniuries protocol and spinal Evaluate for systemic symptoms, precautions procedures when If partial/full burn is moderate which might be caused by chemical indicated to severe, more than 15% of contamination Assess and treat contact total body surface area (TBSA), Notify receiving hospital of wound(s) Cover wounds with dry clean possible chemical contamination Assess and treat Monitor dressings patient ECG for possible Covered burned area in clean, dry Keep patient warm to prevent dressing for transport arrhythmias. Treat as per specific arrhythmia protocol hypothermia Monitor patient ECG for possible arrhythmias. Treat as per specific arrhythmia protocol FOR ALL TYPES OF BURNS Obtain vascular access if indicated for patient management or fluid therapy If partial or full thickness burn is greater than 15% TBSA: Administer IV/IO fluid bolus, 20 ml/kg x 2 up to 1 liter. Reassess after bolus. If signs of shock are present, bolus may be repeated at the same dose up to a maximum total of 40 ml/kg. Follow local MCA transport protocol Administer Analgesic medication, if indicated. Refer to Pain Management Procedure **CONTACT MEDICAL CONTROL** Thermal burns and electrical injury: Additional NS IV/IO fluid bolus, up to 1 liter, wide open Thermal inhalation, chemical burns: Intubation per Emergency Airway Procedure

