SAN FRANCISCO EMERGENCY MEDICAL SERVICES AGENCY

Effective: 01/01/11 Supersedes: 02/01/05

Protocol: P-008

BURNS

SUBJECTIVE FINDINGS

- Type and source of burn: thermal, chemical, electrical, steam.
- Injuries associated with burn event.

OBJECTIVE FINDINGS:

- Evidence of inhalation injury or toxic exposure, i.e. carbonaceous sputum, hoarseness, history of enclosed spaces, altered mental status or singed nasal hairs.
- Extent of Burn: Depth (full vs. partial thickness), and Total Body Surface Area (TBSA) affected. Remember the surface area covered by one of the patient's hands equals one percent of their TBSA.
- Entrance or exit wounds if electrical or lightning strike.
- Associated trauma from explosion, electrical shock, or fall.

BLS Treatment	ALS Treatment
 Routine Medical Care including: Thermal: Stop the burning process. Remove jewelry and non-adhered clothing. Do not break blisters. Cover affected body surface: If <10% of body surface, cover with sterile, moist saline dressing. If >10% of body surface, cover with sterile or clean dry sheet. Prevent hypothermia. Decontamination and HazMat procedures. Brush off dry powder, if present. Remove any contaminated or wet clothing (including underwear). Irrigate continuously with saline or water. TRANSPORT to appropriate facility (see PRECAUTIONS AND COMMENTS). Continue irrigation en route. Electrical Moist dressing on any exposed, injured areas. 	 Early ET intubation for patients with evidence of inhalation injury. Manage airway according to the Airway Management Protocol (P-004). Continuous cardiac monitoring. IV of NS. If partial or total thickness burns > 10% TBSA, consider fluid challenge 500ml NS, reassess and repeat if indicated. Monitor lung sounds. Morphine sulfate 4 mg slow IVP as needed for discomfort. May repeat as indicated if SBP > 100mmHg, to total dose of 20 mg. Consider Ondansetron 4 mg IV/IM for nausea/vomiting. May be repeated q 20" to a maximum dose of 12 mg.

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DOCUMENTATION

- Estimation of % TBSA affected by burn.
- -If > 10%, IV of NS, fluid challenge given as indicated.

-Morphine sulfate given if pain documented and SBP > 100 mmHg (and no contraindications to Morphine sulfate).

PRECAUTIONS AND COMMENTS

- Inhalation injuries are burn injuries and may cause delayed, but severe airway compromise. Be prepared for early ET intubation. Manage airway according to the Airway Management Protocol (P-004).
- Do not apply ice or ice water directly to skin surfaces as additional injury will result.
- Lightning injuries may cause prolonged respiratory arrest.
- Assume presence of associated multisystem trauma if patient presents with signs or symptoms of hypovolemia. See TRAUMA Protocol for associated trauma.
- Pediatric burn patients without associated trauma MUST be transported to St. Francis.

DEFINITION OF MAJOR BURNS:

- Full Thickness: any amount.
- Partial Thickness: 10% of TBSA.
- Burns of airway, face, eyes, ears, hands, feet, major joints, or genital area.
- Chemical, inhalation, or electrical burns.