Burns

History
- Type of exposure (heat, gas or chemical)
- Inhalation injury
- Time of injury
- Other trauma
- Past medical history
- Medications

Signs and Symptoms
- Burns, pain, or swelling
- Dizziness
- Loss of consciousness
- Hypotension/shock
- Airway compromise or distress could be presented as hoarseness or wheezing

Differential
- Superficial – red and painful (do not include in TBSA)
- Partial thickness – blistering
- Full thickness – painless with charred or leathery skin
- Chemical injury
- Thermal injury
- Radiation injury
- Blast injury

Assess burn injury severity

Minor
- < 20% TBSA partial or full thickness burns
- No inhalation injury
- GCS > 13

E
- Remove rings, bracelets, and constricting items
- Apply clean dressing to burn area

P
- For pain consider, Fentanyl

Trauma Triage if indicated

Configure burn severity

Transport to facility of choice.
Consider transporting to Burn Center for burns to the face, hands, perineum, or feet and circumferential burns

Major
- ≥ 20% TBSA partial or full thickness burns, burns with suspected inhalation injury or high voltage electrical burns
- Inhalation Injury if indicated

E
- Remove rings, bracelets, and constricting items
- Apply clean dressing to burn area

P
- Normal Saline bolus
  - ≤ 5 years – 125ml
  - 6-13 years – 250ml
  - ≥ 14 years – 500ml
- Cardiac monitor
- For pain consider, Fentanyl

Trauma Triage if indicated

Transport to appropriate facility
Burns with trauma to Trauma Center
Burns only to Burn Center

Notify receiving facility.
Contact Base Hospital for medical direction

Approved Burn Receiving Centers
- St. Francis – San Francisco
- Valley Med. Center – San Jose
- UC Davis – Sacramento

Effective April 2020
Pearls

- Airway burns may lead to rapid compromise of the airway and can be identified by soot around the nares or mouth or visible burns or edematous mucosa in the mouth.
- Early intubation is required when the patient experiences significant inhalation injuries. If the patient requires advanced airway management that cannot be quickly achieved in the field, transport to the nearest facility for stabilization prior to transfer to the Burn Center. Do not wait for a helicopter if airway patency is a critical concern.
- Contact Burn Center prior to transport to confirm bed availability.
- For major burns, do not apply wet dressings, liquids or gels to burns unless it is to remove whatever caused the burn (i.e. dry chemical agent, etc.). Cooling large burns may lead to hypothermia.
- Burn patients are often trauma patients. If burns are evident in the presence of trauma, follow trauma triage guidelines and transport to trauma center if activation criteria is met.
- Circumferential burns to extremities are dangerous due to potential vascular compromise secondary to soft tissue swelling.
- Never administer IM pain medication into a burned area.
- IV/IOs may be placed through burns as a last resort.