27. Burns Resuscitation Pathway (Assessment)

This clinical pathway is intended to supplement, rather than substitute for, professional judgment and may be changed depending upon a patient's individual needs. Failure to comply with this pathway does not represent a breach of the standard of care.

SAMPLE HISTORY

Signs and Symptoms

Allergies

Medication

Past Medical History/Pregnancy

Last meal

Events preceding presentation

Primary Survey (C-ABCDE)

- C-Spine If suspected trauma, Cleared Clinically (see 25. C-Spine Clearance Algorithm)? Perform Manual In-Line Stabilization (MILS) then apply Head Blocks or Blanket Rolls taped to the patient's head and trolley. DO NOT APPLY A C-COLLAR
- Airway Open? Maintainable? Intubate? Indications for intubation include presence of pharyngeal burns, air hunger, stridor, carbonaceous sputum and hoarseness, unconscious patients, hypoxic patients with severe smoke inhalation, or patients with flame or flash burns involving the face and neck.
- **B**reathing Rate? SPO₂? Air entry bilaterally?
- Circulation Active Bleeding Control? BP? CPR? Pulse? Signs of Shock?
- Disability GCS? Pupils? RBS?
- Expose patient

1 st Degree Burns	 Epidermis only Commonly caused by UV light or very short flash or flame exposure Skin is red, dry & hypersensitive No treatment except analgesia Leaves no scarring on healing
2 nd Degree Burns	 Superficial; Epidermis + Upper ⅓ of Dermis Commonly caused by scald (spill or splash) Red, moist, weeping, cob blisters that blanche with pressure Painful - due to nerve exposure, & heals from 7-14days Leaves no scarring on healing but there is potential pigmentary changes
	 Deep; Epidermis + Upper ⅔ of Dermis Commonly caused by scald, flame, chemicals, oil & grease Cheesy white, wet or waxy dry; Do not blanche with pressure Healing takes > 21days Severe scarring & risk of contractures
3 rd Degree Burns (Full Thickness Burns)	 Full Epidermis + Dermis are destroyed leaving no cells to heal Commonly caused by scald, steam, flame, chemicals, oil, grease & high voltage electricity Grey to charred & black, insensate, contracted, pale, leathery tissue Severe scarring & high risk of contractures
4 th Degree Burns	Muscle involvement
5 th Degree Burns	Bone involvement - Especially in epileptics who convulse during burning

Total Body Surface Area (TBSA) **Burns Estimation** Lund and Browder Charts for area of body burnt **Burnt** area % Head Neck Trunk (front) Trunk (back Arm (right) Arm (left) Hand (right) Hand (left) Buttock (right) Buttock (left) Genitals Leg (right) Leg (left) Feet (right) Feet (left) Total burn area Age (years) Under 1 2-4 5-9 10 - 1415 Adult A - 1/2 of head 91/2 81/2 61/2 51/2 41/2 31/2 21/4 31/4 4 41/2 41/2 434 C - 1/2 of one leg 21/2 23/4

Do not include first degree burns in the calculation of % TBSA. The surface area of a patient's palm (including fingers) is roughly 1% of TBSA. Palmar surface can be used to estimate relatively small burns (< 15% of total surface area) or very large burns (> 85%, when unburnt skin is counted). For medium-sized burns, it is inaccurate.