



# Yolo County Emergency Medical Services Agency

## Protocols

Revised Date: September 1, 2018

<b>BURNS</b>	
<b>Adult</b>	<b>Pediatric</b>
<b>Burn Triage Criteria</b>	
<ul style="list-style-type: none"> <li>• Partial or full thickness (2<sup>nd</sup> and 3<sup>rd</sup> degree) burns &gt; 15% of the total Body Surface Area (TBSA)</li> <li>• Partial or full thickness (2<sup>nd</sup> and 3<sup>rd</sup> degree) burns involving 10% of the TBSA with any of the following:               <ul style="list-style-type: none"> <li>• &gt; 60 years of age</li> <li>• Associated trauma meeting trauma triage criteria</li> <li>• Significant co-morbidities (e.g. COPD, major medical disorder, bleeding disorder, anticoagulant therapy, or dialysis)</li> </ul> </li> <li>• Partial or full thickness (2<sup>nd</sup> and 3<sup>rd</sup> degree) burns to face, perineum, hands, or circumferential burn to any body part</li> <li>• Significant electrical injuries with LOC, voltage in excess of 220 volts, and/or open wounds</li> <li>• Significant electrical injuries resulting in loss of distal pulses</li> <li>• Chemical burns with wounds &gt; 5 % TBSA</li> </ul> <p>Burn patients with airway compromise, wheezing, stridor, carbonaceous sputum, nasal singeing or significant facial edema</p>	
<b>BLS</b>	
Assess vital signs O <sub>2</sub> , titrate SpO <sub>2</sub> to ≥ 94% CPAP if indicated Assist ventilations as needed Cover burns with dry, clean dressing Remove all jewelry and constricting items (rings, watches, necklaces etc.)	
<b>ALS</b>	
Cardiac Monitor, Waveform EtCO <sub>2</sub> , Vascular Access	
<b>Fluid Bolus NS 250 mL IV/IO</b> <ul style="list-style-type: none"> <li>• May repeat as needed</li> </ul> <p style="text-align: center;"><u>Wheezing</u></p> <b>Albuterol 5 mg Nebulized</b> <ul style="list-style-type: none"> <li>• May repeat x 1</li> </ul> <p style="text-align: center;"><u>And</u></p> <b>Ipratropium 500 mcg Nebulized</b> <ul style="list-style-type: none"> <li>• No repeat</li> </ul>	<b>Fluid Bolus NS 20 mL/kg IV/IO</b> <ul style="list-style-type: none"> <li>• Titrate to age appropriate SBP</li> </ul> <p style="text-align: center;"><u>Wheezing</u></p> <b>Albuterol 5 mg Nebulized</b> <ul style="list-style-type: none"> <li>• May repeat x 1</li> </ul> <p style="text-align: center;"><u>And</u></p> <b>Ipratropium 500 mcg Nebulized</b> <ul style="list-style-type: none"> <li>• No repeat</li> </ul>



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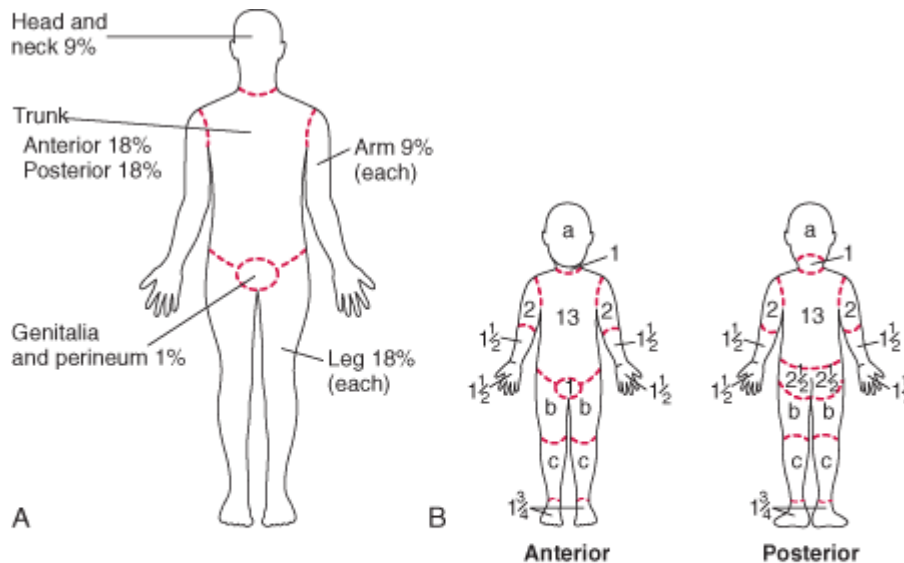
### Consider

- Consider early endotracheal intubation in burn patients showing signs of severe respiratory compromise, wheezing, stridor, carbonaceous sputum, nasal singeing or significant facial edema
- Patients with evidence of burns to head, face, throat or chest should be transported with the head of the gurney elevated 30 degrees
- Consider pain management
- Assume airway involvement with chemical burns and fires in enclosed spaces

### Direction

- Patients meeting burn triage criteria shall be transported to a burn receiving center
- Contact Receiving ED Physician for additional treatment

### Rule of 9's



Relative percentage of body surface area (% BSA) affected by growth

Body Part	Age				
	0 yr	1 yr	5 yr	10 yr	15 yr
a = 1/2 of head	9 1/2	8 1/2	6 1/2	5 1/2	4 1/2
b = 1/2 of 1 thigh	2 3/4	3 1/4	4	4 1/4	4 1/2
c = 1/2 of 1 lower leg	2 1/2	2 1/2	2 3/4	3	3 1/4