

INLAND COUNTIES EMERGENCY MEDICAL AGENCY POLICY AND PROTOCOL MANUAL

Reference No. 14070

Effective Date: 04/01/23 Supersedes: 04/01/22

Page 1 of 5

BURNS - ADULT (15 years of age and older)

Burn patient requires effective communication and rapid transportation to the closest receiving hospital.

I. FIELD ASSESSMENT/TREATMENT INDICATORS

Refer to ICEMA Reference #9030 - Destination policy.

II. BLS INTERVENTIONS

- Break contact with causative agent (stop the burning process).
- Remove clothing and jewelry quickly, if indicated.
- Keep patient warm.
- Estimate % TBSA burned and depth using the "Rule of Nines".
 - An individual's palm represents 1% of TBSA and can be used to estimate scattered, irregular burns.
- Transport to ALS intercept or to the closest receiving hospital.

A. Manage Special Considerations

- **Thermal Burns**: Stop the burning process. Do not break blisters. Cover the affected body surface with dry, sterile dressing or sheet.
- **Chemical Burns**: Brush off dry powder, if present. Remove any contaminated or wet clothing. Irrigate with copious amounts of saline or water.
- **Tar Burns**: Cool with water, do not remove tar.
- **Electrical Burns**: Remove from electrical source (without endangering self) with a nonconductive material. Cover the affected body surface with dry, sterile dressing or sheet.
- **Eye Involvement**: Continuous flushing with NS during transport. Allow patient to remove contact lenses if possible.
- **Determination of Death on Scene**: Refer to ICEMA Reference #14250 Determination of Death On Scene.

III. LIMITED ALS (LALS) INTERVENTIONS

- Advanced airway as indicated.
- Airway Stabilization:

Burn patients with respiratory compromise or potential for such, will be transported to the closest most appropriate receiving hospital for airway stabilization.

IV access (warm IV fluids when available).

Reference No. 14070 Effective Date: 04/01/23 Supersedes: 04/01/22

Page 2 of 5

Unstable: BP less than 90 mm HG and/or signs of inadequate tissue perfusion, start 2nd IV access.

IV NS 250 ml boluses, may repeat to a maximum of 1000 ml.

Stable: BP more than 90 mm HG and/or signs of adequate tissue perfusion.

IV NS 500 ml per hour.

- Transport to appropriate facility.
 - Minor Burn Classification: Transport to the closest most appropriate receiving hospital.
 - Moderate Burn Classification: Transport to the closest most appropriate receiving hospital.
 - Major Burn Classification: Transport to the closest most appropriate Burn Center (San Bernardino County contact ARMC).
 - Critical Trauma Patient (CTP) with Associated Burns: Transport to the most appropriate Trauma Center.
- Burn patients with associated trauma, should be transported to the closest Trauma Center. Trauma base hospital contacted shall be made.

A. <u>Manage Special Considerations</u>

- **Electrical Burns**: Place AED on patient.
 - Electrical injuries that result in cardiac arrest shall be treated as medical arrests.
- Respiratory Distress: Use BVM as needed and transport to the nearest facility for airway control. Contact receiving hospital ASAP. Albuterol with Atrovent per ICEMA Reference #11010 -Medication - Standard Orders.
- Deteriorating Vital Signs: Transport to the closest most appropriate receiving hospital. Contact base hospital.
- Pulseness and Apneic: Transport to the closest most appropriate receiving hospital and treat according to ICEMA policies. Contact base hospital.
- Determination of Death on Scene: Refer to ICEMA Reference #14250 -Determination of Death on Scene.
- Precautions and Comments:
 - High flow oxygen is essential with known or potential respiratory injury. Beware of possible smoke inhalation.
 - Contact with appropriate advisory agency may be necessary for hazardous materials, before decontamination or patient contact.

Reference No. 14070 Effective Date: 04/01/23 Supersedes: 04/01/22

Page 3 of 5

Do not apply ice or ice water directly to skin surfaces, as additional injury will result.

IV. **ALS INTERVENTIONS**

- Advanced airway (as indicated).
- Airway Stabilization:

Burn patients with respiratory compromise or potential for such, will be transported to the closest most appropriate receiving hospital for airway stabilization.

- Monitor ECG.
- IV/IO Access (Warm IV fluids when available).
 - Unstable: BP less than 90 mm HG and/or signs of inadequate tissue perfusion, start 2nd IV access.

IV/IO NS 250 ml boluses, may repeat to a maximum of 1000 ml.

Stable: BP more than 90 mm HG and/or signs of adequate tissue perfusion.

IV/IO NS 500 ml per hour.

Treat pain as indicated.

Pain Relief: Administer an appropriate analgesic per ICEMA Reference #14100 - Pain Management - Adult. Document vital signs and pain scales every five (5) minutes until arrival at destination.

- Transport to appropriate facility:
 - CTP with associated burns, transport to the closest Trauma Center.
 - Burn patients with associated trauma, should be transported to the closest Trauma Center. Trauma base hospital contacted shall be made.
- Insert nasogastric/orogastric tube as indicated.
- Refer to Section V Burn Classifications below.

Α. **Manage Special Considerations**

- **Electrical Burns**: Monitor for dysrhythmias, treat according to ICEMA protocols.
 - Electrical injuries that result in cardiac arrest shall be treated as medical arrests.
- Respiratory Distress: Intubate patient if facial/oral swelling are present or if respiratory depression or distress develops due to inhalation injury.
 - Albuterol with Atrovent per ICEMA Reference #11010 Medication -Standard Orders.

BURNS - ADULT (15 v	years of age and older)	

Reference No. 14070 Effective Date: 04/01/23 Supersedes: 04/01/22 Page 4 of 5

- Administer humidified oxygen, if available.
- Apply capnography.
- Awake and breathing patients with potential for facial/inhalation burns are not candidates for nasal tracheal intubation. CPAP may be considered, if indicated, after consultation with base hospital.
- **Deteriorating Vital Signs**: Transport to the closest receiving hospital. Contact base hospital.
- **Pulseness and Apneic**: Transport to the closest receiving hospital and treat according to ICEMA policies. Contact base hospital.
- **Determination of Death on Scene**: Refer to ICEMA Reference #14250 Determination of Death on Scene.
- Precautions and Comments:
 - Contact with appropriate advisory agency may be necessary for hazardous materials, before decontamination or patient contact.
 - Do not apply ice or ice water directly to skin surfaces, as additional injury will result.
- Base Hospital Orders: May order additional medications, fluid boluses and CPAP.

V. BURN CLASSIFICATIONS

ADULT BURN CLASSIFICATION CHART	DESTINATION	
MINOR - ADULT	CLOSEST MOST APPROPRIATE RECEIVING HOSPITAL	
Less than 10% TBSALess than 2% Full Thickness		

MODERATE - ADULT	CLOSEST MOST APPROPRIATE RECEIVING HOSPITAL	
• 10 - 20% TBSA		
• 2 - 5% Full Thickness		
High Voltage Burn		
 Suspected Inhalation Injury 		
Circumferential Burn		
Medical problem predisposing		
to infection (e.g., diabetes		
mellitus, sickle cell disease)		

Reference No. 14070 Effective Date: 04/01/23 Supersedes: 04/01/22

Page 5 of 5

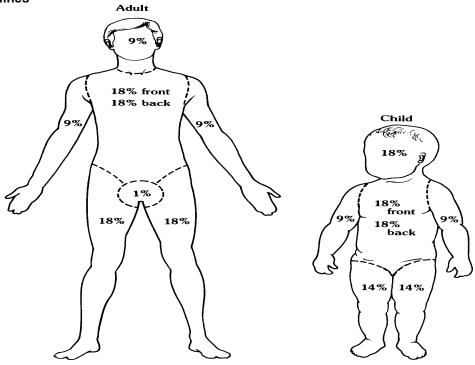
MAJOR - ADULT

- More than 20% TBSA burn in adults
- More than 5% Full Thickness
- Known Inhalation Injury
- Any significant burn to face, eyes, ears, genitalia, or joints

CLOSEST MOST APPROPRIATE BURN CENTER

In San Bernardino County, contact: Arrowhead Regional Medical Center (ARMC)

"Rule of Nines"



VI. REFERENCES

<u>mber</u>	<u>Name</u>
30	Destination
)10	Medication - Standard Orders
00	Pain Management - Adult
250	Determination of Death on Scene
	<u>mber</u> 30 310 00 250