POLICY: 555.81
TITLE: Pediatric Burns

EFFECTIVE: ~~02/01/2026~~DRAFT
REVIEW: ~~02/2028~~DRAFT
SUPERCEDES:

APPROVAL SIGNATURES ON FILE IN EMS OFFICE

PEDIATRIC BURNS

I. AUTHORITY
Health and Safety Code, Division 2.5, California Code of Regulations, Title 22, Division 9

II. PURPOSE
To serve as a patient treatment standard for EMRs, EMTs, AEMT~~'~~s, and Paramedics within their scope of practice.

III. PROTOCOL

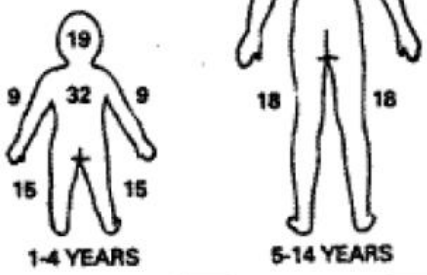
TRANSPORT PER TRAUMA POLICIES

Provider Key: F = First Responder/EMR E = EMT O = EMT Local Optional SOP
P = Paramedic A=Advanced EMT D = Base Hospital Physician Order Required

	F	E	O	A	P	D
SCENE SAFETY: move patient to a safe environment.	X	X	X	X	X	
ASSESSMENT	X	X	X	X	X	
STOP THE BURING PROCESS: • **CHEMICAL BURNS**: brush off dry chemicals then flush with copious amounts of water. Consult container label for decontamination instructions and transport label with patient. • **THERMAL BURNS:** if burn occurred less than 3 hours ago and is less than 30% TBSA, apply cool running water for 20 minutes as available. Transport immediately for unstable patients**.**	X	X	X	X	X	
AVIOD HYPOTHERMIA: cool only the burned area and keep the unaffected body parts warm by covering and use heater in passenger compartment.	X	X	X	X	X	
BLS AIRWAY: okay if airway patent. Support ventilations with appropriate airway adjuncts.	X	X	X	X	X	
SUPRAGLOTTIC AIRWAY: if GCS is < 8 and not rapidly improving, consider SGA.			X	X	X	
NEEDLE CRICOTHYROTOMY: if unable to ventilate with SGA • Quicktrach Child device for patients 10-35 kg (22-77lbs). • Quicktrach device for patients > 35 kg (> 77lbs). • 14 – 18G catheter for patients < 10kg (< 22lbs). • Ventilate with high flow oxygen.					X	
PULSE OXIMETRY: apply and monitor.		X	X	X	X	
CAPNOGRAPHY: apply and monitor if advanced airway has been placed.					X	
OXYGEN: if pulse oximetry < 94% or signs of respiratory distress or hypoperfusion.	X	X	X	X	X	
ECG MONITOR: lead placement may be delegated. Treat as indicated.					X	

VASCULAR ACCESS: IV/IO.				X	X	
	F	E	O	~~O~~ A	P	D
FLUID RESUSCITATION: N~~.~~S~~.~~ 20mL/kg as indicated. Reassess after each bolus. Repeat at 10 mL/kg bolus. Use~~Consider~~ warm IV fluids~~,~~ unless hyperthermic.					X	
DRESS BURNS: Cover thermal burns with dry, non-stick dressing and keep patient warm.	X	X	X	X	X	
Refer to 555.43 PEDIATRIC PAIN MANAGEMENT as indicated.					X	

Patient Age		**NB**	**NB**	**3 Mo**	**6 Mo**	**1 Yr**	**2 Yr**	**4 Yr**	**6 Yr**	**8 Yr**	**10 Yr**	**12 Yr**
Body Length (cm)		0-53	54-58	59-65	66-74	75-80	81-86	87-99	100-113	114-132	133-158	159-189
Body Wt. (kgs)		**2**	**4**	**6**	**7**	**10**	**12**	**16**	**20**	**25**	**34**	**41**
Partial & Full Thick-ness Burns	1%	1	2	3	4	5	6	8	10	13	17	21
	5%	5	10	15	18	25	30	40	50	63	85	103
	10%	10	20	30	35	50	60	80	100	125	170	205
	15%	15	30	45	53	75	90	120	150	188	255	308
	20%	20	40	60	70	100	120	160	200	250	340	410
	25%	25	50	75	88	125	150	200	250	313	425	513
	50%	50	100	150	175	250	300	400	500	625	850	1025
	75%	75	150	225	263	375	450	600	750	938	1275	1538
	Amount of IV/IO fluid in **mL** to be administered in the first hour											



	Age in years			
Burn Area	**1**	**1–4**	**5–9**	**10–14**
Head	19	17	13	11
Neck	2	2	2	2
Anterior Trunk	13	13	13	13
Posterior Trunk	18	18	18	18
Genitalia	1	1	1	1
Upper Extremity (each)	9	9	9	9
Lower Extremity (each)	14.5	15.5	17.5	18.5

The patient's palm (hand minus fingers) is about 1% of the patient's body surface area.

Age	HR	RR	BP	Temp (C)	Temp (F)
Premie	120-170	40-70	55-75/35-45	36-38	96.8-100.4
0-3 months	100-160	35-60	65-85/45-55	36-38	96.8-100.4
3-6 months	90-120	30-45	70-90/50-65	36-38	96.8-100.4
6-12 months	80-120	25-40	80-100/55-65	36-38	96.8-100.4
1-3 years	70-110	20-30	90-105/55-70	36-38	96.8-100.4
3-6 years	65-110	20-25	90-110/60-75	36-38	96.8-100.4
6-12 years	65-100	14-22	90-120/60-75	36-38	96.8-100.4
12+	55-100	12-20	100-135/65-85	36-38	96.8-100.4