

## POLICIES AND PROCEDURES

POLICY: 555.42

TITLE: Pediatric Allergic Reaction - Anaphylaxis

EFFECTIVE: 07/01/2024 REVIEW: 07/2027

SUPERCEDES:

## APPROVAL SIGNATURES ON FILE IN EMS OFFICE

PAGE: 1 of 3

## PEDIATRIC ALLERGIC REACTION - ANAPHYLAXIS

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, and Paramedics within their scope of practice.

III. PROTOCOL

Provider Key: F = First Responder/EMR E = EMT O = EMT Local Optional SOP

P = Paramedic D = Base Hospital Physician Order Required

	F	Е	0	Р	D
ASSESSMENT				Χ	
<b>REMOVE ALLERGEN:</b> (i.e., bee stinger) & apply ice to site if indicated.	Х	Χ	Χ	Χ	
<b>BLS AIRWAY</b> : okay if airway patent. Support ventilations with appropriate airway adjuncts.	Х	X	Х	Х	
<b>SUPRAGLOTTIC AIRWAY:</b> if GCS is < 8 and not rapidly improving, consider SGA.				Х	
PULSE OXIMETRY: apply and monitor.				Χ	
CAPNOGRAPHY: apply and monitor if SGA has been placed.				Χ	
<b>OXYGEN</b> : if pulse oximetry < 94% or signs of respiratory distress or hypoperfusion.				Х	
<b>ECG MONITOR:</b> lead placement may be delegated. Treat as indicated.				Χ	
VASCULAR ACCESS: IV/IO, rate as indicated. Consider second IV/IO access.				Χ	
FLUID BOLUS: 20 mL/kg fluid boluses for hypoperfusion.					
MILD or MODERATE REACTION (rash, swelling, wheezing)					
<ul> <li>APPROVED BETA-2 AGONIST: choose ONE of the following beta-2 agonists (consider availability or need to reduce aerosol-generating procedure to decide).</li> <li>ALBUTEROL: 2.5 mg via nebulizer for wheezing patients. If patient has SGA placed, administer through aerosol holding chamber of SGA.</li> <li>LEVALBUTEROL: 1.25 mg via nebulizer.</li> </ul>				х	
<b>IPRATROPRIUM:</b> via nebulizer, 250 mcg if < 20 kg or 500mcg if > = 20 kg.				Х	

	F	Е	0	Р	D
EPINEPHRINE:					
<ul> <li>&lt; 30 kg administer 0.15 mg of 1:1000 (1 mg/mL) IM.</li> </ul>					
<ul> <li>&gt; 30 kg administer 0.3 mg of 1:1,000 (1 mg/mL) IM.</li> </ul>			Χ	Χ	
For all weights repeat dose may be given every 5-15 minutes as needed for					
respiratory distress or persistent wheezing.					
EPINEPHRINE: auto-injector					
<ul> <li>&lt; 30 kg administer 0.15 mg of 1:1000 (1 mg/mL) IM.</li> </ul>					
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For all weights repeat dose may be given every 5-15 minutes as needed for					
respiratory distress or persistent wheezing.					
<b>DIPHENHYDRAMINE:</b> 1 mg/kg IV/IO/IM with a maximum dose of 50 mg.				Χ	
SEVERE REACTION					
(hypotension, severe respiratory depression, oral swelling, altered mental status	, che	est tiç	ghtne	ess)	
<b>EPINEPHRINE:</b> 0.01 mg/kg of 1:10,000 (0.1 mg/mL) IV/IO with a maximum single					
dose of 0.1 mg. Repeat every 5 minutes as needed for respiratory distress and				Х	
poor perfusion. If no IV/IO access, administer 0.01 mg/kg of 1:1,000 IM with a				^	
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## Pediatric Normal Vital Signs

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