CENTRAL CALIFORNIA

EMERGENCY MEDICAL SERVICES

A Division of the Fresno County Department of Public Health

Manual		Policy
	Emergency Medical Services	Number 530.22
	Administrative Policies and Procedures	
Subject		Page 1 of 3
	Paramedic Treatment Protocols	
	ALLED CLC DE ACTIONS AND ANADIM ACTUS SHOCK	
	ALLERGIC REACTIONS AND ANAPHYLACTIC SHOCK	
References		Effective
	Title 22, Division 9, Chapter 4	Fresno County:
	of the California Code of Regulations	01/15/82
		Kings County: 04/10/89
		Madera County:
		06/15/85
		Tulare County:
		04/19/05

STANDING ORDERS			
1. Assessment	ABCs		
2. Airway	2. Airway Protect with position, pharyngeal airway, advanced airway if indicated, assist respirations as needed, suction as needed.		if indicated, assist respirations as
3. Oxygen	3. Oxygen No oxygen for mild reactions. High flow for severe reactions. Refer to EMS Policy #530.02.		
Mild Reaction - Stable		Severe Reaction - Unstable	
R	ash and Swelling	Hypotension, severe respiratory depression, wheezing, oral swelling, altered mental status, chest tightness	
4. Remove allergen	If appropriate (i.e., bee stinger), apply ice.	4. Remove allergen	If appropriate (i.e., bee stinger), apply ice.
5. Diphenhydramine	50 mg IM Pediatrics – 1 mg/kg IM	5. Monitor	Treat rhythm if appropriate.
6. Transport		6. Epinephrine	0.4 mg (0.4 ml) of 1:1000 IM ONLY if systemic symptoms present. May repeat dose every 15 minutes if symptoms persist. Pediatrics – 0.01 mg/kg of 1:1000 IM to maximum 0.4 ml. May repeat dose in 15 minutes if symptoms persist.

STANDING ORDERS - CONTINUED ON NEXT PAGE

Approved By		Revision
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Subject Paramedic Treatment Protocols - Allergic Reactions and Anaphylactic Shock Pumber 530.22

STANDING ORDERS (CONTINUED)		
Mild Reaction -Stable (Continued) 7. Contact Hospital Per EMS Policy #530.02.		Reaction - Unstable Continued) BP less than 80 with signs/
		symptoms of shock, LR – standard tubing, run wide open. BP between 80-100 with signs/ symptoms of shock, LR standard tubing, administer fluid challenge. BP above 100 – Saline lock
	8. Epinephrine	If systolic BP less than 80 with signs/symptoms of shock. 0.1 mg (1.0 ml) of 1:10,000 very slow IV push. Repeat in five minutes if symptoms persist to total of 0.4 mg (4 ml).
		Pediatrics – 0.025 ml/kg of 1:10,000 very slow IV push to a maximum of 1.0 ml. May repeat dose once in 5 minutes if symptoms persist. Contact Base Hospital regarding additional doses.
	9. Transport	
	10. Nebulized Albuterol Therapy	2.5 mg/3cc nebulized albuterol sulfate with standard acorn-type jet nebulizer using pressurized oxygen at a flow rate of 6 L/min. May repeat twice.
		Pediatrics (14 years and under) – 10 mg/2 cc of the multi-dose. May repeat twice
	11. CPAP	Refer to EMS Policy 530.02.
	12. Diphenhydramine	50 mg IV push. If unable to establish IV, give IM Pediatrics – 1 mg/kg slow IV push. If unable to establish IV, give IM
	13. Contact Hospital	Per EMS Policy #530.02.

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BASE HOSPITAL ORDERS		
*1. EPINEPHRINE DRIP	IF PROFOUND SHOCK PERSISTS.	
	1:10,000 1 MG IN 250 ML NORMAL SALINE, TITRATE IV WITH PEDIATRIC DRIP TO BLOOD PRESSURE OF ABOUT 100 SYSTOLIC. (RATE OF 0.5-1.5 ML/MIN.)	

SPECIAL CONSIDERATION AND PRIORITIES

- 1. Assessment Mental status, vital signs, lung sounds, upper airway sounds (stridor?).
- 2. Treat as an allergic reaction only if history of exposure to allergen (such as bee sting) or other signs of acute allergy such as hives, itching, erythema, edema, stridor, respiratory distress, wheezing, or hypotension.
- 3. Transport lights/siren all patients in shock or unresponsive to therapy.
- 4. Mild allergic reactions usually require less aggressive therapy. Consider Diphenhydramine 50 mg IM only. Contact Base Hospital for direction.
- 5. Be cautious in using Epinephrine in patients over 70 years of age, or patients with history of angina or hypertension. Watch BP, pulse, and monitor closely. Be extremely cautious with dosage calculations and administration.
- 6. Be cautious of Albuterol side effects with multiple doses (e.g., increase anxiety, tachycardia, tremulousness, and blood pressure).
- 7. Albuterol nebulization will be delivered via in-line nebulizer in addition to CPAP.

EPINEPHRINE DOSAGE CHART FOR PATIENTS LESS THAN 40 KG

		SYSTOLIC BP LESS THAN 80 WITH
PATIENT STATUS:	SYSTOLIC BP GREATER THAN 80	SIGNS AND SYMPTOMS OF SHOCK
ROUTE OF ADMINISTRATION:	IM	IV
CONCENTRATION:	1:1000	1:10,000
DOSAGE:	0.01 ml/kg	0.025 ml/kg
10 kg	0.1 ml	0.25 ml
20 kg	0.2 ml	0.50 ml
30 kg	0.3 ml	0.75 ml
40 kg	0.4 ml	1.0 ml