




City and County of San Francisco
Edwin M. Lee, Mayor

Department of Public Health
Emergency Medical Services Agency

2018-02

Date: January 30, 2018
To: 911 EMS Providers
From: John Brown MD Medical Director 
Subject: Dosage Correction for Dextrose 10%

The San Francisco EMSA was made aware of typographical errors on the Reference 3 (San Francisco Pediatric Dosing Guide) document, attached to the Protocols. The dosage for D10 was incorrectly expressed for the Pink, Red, and Purple ranges. They are now correctly expressed at 0.5gm/kg.

Additionally, the Intranasal and IM/IV/IO administrations were reversed, for Midazolam. They are now correctly expressed, as well.

Attached is the corrected version of the Reference 3 document.

Please contact EMS Agency EMS Specialist Aram Bronston at aram.bronston@sfdph.org if you have any questions regarding this update. Thank you for your continuing support of quality EMS care in our system.

Respectfully,

San Francisco EMS Agency

CC:
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EMSAC Interest Group
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Reference III: San Francisco Pediatric Dosing Guide (ver. 01/30/2018)

Based on Broselow Length-Based Measurement Tape

	Grey	Pink	Red	Purple	Yellow	White	Blue	Orange	Green
WEIGHT (in kg):	3 - 5	6 - 7	8 - 9	10 - 11	12 - 14	15 - 18	19 - 22	24 - 28	30 - 36
(in lbs.):	6.6 - 11	13.2 - 15.4	17.6 - 19.8	22.0 - 24.2	26.4 - 30.8	33.0 - 39.6	41.8 - 48.4	52.8 - 61.6	66.0 - 79.2
ADENOSINE <i>Concentration 6mg/2ml</i> Dose 0.1 mg/kg ml to give =	0.3 - 0.5 mg	0.6 - 0.7 mg	0.8 - 0.9 mg	1.0 - 1.1 mg	1.2 - 1.4 mg	1.5 - 1.8 mg	1.9 - 2.2 mg	2.4 - 2.8 mg	3.0 - 3.6 mg
	0.1 - 0.2 ml	0.2 ml	0.3 ml	0.3 - 0.4 ml	0.4 - 0.5 ml	0.5 - 0.6 ml	0.6 - 0.7 ml	0.8 - 0.9 ml	1.0 - 1.2 ml
ADENOSINE <i>Concentration 6mg/2ml</i> Dose 0.2 mg/kg ml to give =	0.6 - 1.0 mg	1.2 - 1.4 mg	1.6 - 1.8 mg	2.0 - 2.2 mg	2.4 - 2.8 mg	3.0 - 3.6 mg	3.8 - 4.4 mg	4.8 - 5.6 mg	6.0 - 7.2 mg
	0.2 - 0.3 ml	0.4 - 0.5 ml	0.5 - 0.6 ml	0.7 - 0.8 ml	0.8 - 0.9 ml	1.0 - 1.2 ml	1.3 - 1.5 ml	1.6 - 1.9 ml	2.0 - 2.3 ml
ALBUTEROL <i>Concentration 2,5mg in 3ml NS</i>	2.5 mg/3 ml NS for all pedi patients								
AMIODARONE <i>Concentration 150 mg/3ml</i> Dose 5 mg/kg (give over 10 minutes) ml to give =	15 - 25 mg	30 - 35 mg	40 - 45 mg	50 - 55mg	60 - 70 mg	75 - 90mg	95 - 110 mg	120 - 140 mg	150 - 180 mg
	0.3 - 0.5 ml	0.6 - 0.7 ml	0.8 - 0.9 ml	1.0 - 1.1 ml	1.2 - 1.4 ml	1.5 - 1.8 ml	1.9 - 2.2 ml	2.4 - 2.8 ml	3.0 - 3.6 ml
ATROPINE <i>Concentration 1 mg/10 ml</i> Dose 0.02 mg/kg IV/IO Min 0.1 mg - Max 0.5 mg (No Max dose, if Organophosphate poisoning) ml to give =	0.06 - 0.1 mg	0.12 - 0.14 mg	0.16 - 0.18 mg	0.2 - 0.22 mg	0.24 - 0.28 mg	0.3 - 0.36 mg	0.38 - 0.44 mg	0.48 - 0.56 mg	0.6 - 0.72 mg
	1.0 ml	1.2 - 1.4 ml	1.6 - 1.8 ml	2.0 - 2.2 ml	2.4 - 2.8 ml	3.0 - 3.6 ml	3.8 - 4.4 ml	4.8 - 5.0 ml	5.0 ml

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(in lbs.):	6.6 - 11	13.2 - 15.4	17.6 - 19.8	22.0 - 24.2	26.4 - 30.8	33.0 - 39.6	41.8 - 48.4	52.8 - 61.6	66.0 - 79.2	
DEXTROSE 10% <i>Concentration 0.1 g/ml</i> <i>D10W = mix 1 ml of D50W</i> <i>with 4 ml of sterile water</i>	Neonates < 1 month <i>D10W</i> Dose 2 ml/kg (0.2 g/kg)	Child > 1 month <i>D10W</i> Dose 5 ml/kg (0.5 g/kg) Max 25 gms								
	<i>OR</i>	0.6 – 1.0 gm	3.0 – 3.5 gm	4.0 – 4.5 gm	5.0 – 5.5 gm	6 – 7 gm	7.5 – 9 gm	9.5 – 11 gm	12 – 14 gm	15 – 18 gm
	<i>Draw from 250cc bag of</i> <i>D10W</i>	6 – 10 ml	30 – 35 ml	40 – 45 ml	50 – 55 ml	60 – 70 ml	75 – 90 ml	95 – 110 ml	120 – 140 ml	150 – 180 ml
DIPHENHYDRAMINE <i>Concentration 50 mg/ml</i> Dose 1 mg/kg Max 25 mg <i>ml to give =</i>	3 – 5 mg	6 - 7 mg	8 - 9 mg	10 - 11 mg	12 - 14 mg	15 - 18 mg	19 - 22 mg	24 - 25 mg	25 mg	
	0.06 - 0.10 ml	0.12 - 0.14 ml	0.16 - 0.18 ml	0.2 - 0.22 ml	0.24 - 0.28 ml	0.3 - 0.36 ml	0.38 - 0.44 ml	0.48 - 0.5 ml	0.5 ml	
EPINEPHRINE 1:1,000 (Not Cardiac Arrest) <i>Concentration 1 mg/1 ml</i> Dose 0.01 mg/kg IM Max 0.3mg <i>ml to give =</i>	0.03 – 0.05 mg	0.06 - 0.07 mg	0.08 - 0.09 mg	0.1 - 0.11 mg	0.12 – 0.14 mg	0.15 – 0.18 mg	0.19 – 0.22 mg	0.24 – 0.28 mg	0.3 – 0.36 mg	
	0.03 – 0.05 ml	0.06 – 0.07 ml	0.08 – 0.09 ml	0.1 – 0.11 ml	0.12 - 0.14 ml	0.15 - 0.18 ml	0.19 – 0.22 ml	0.24 – 0.28 ml	0.3 – 0.36 ml	
EPINEPHRINE (Cardiac Arrest) <i>Concentration 1 mg/10 ml</i> <i>(0.1mg/1ml)</i> Dose 0.01 mg/kg IV/IO Max 1 mg <i>ml to give =</i>	0.03 – 0.05 mg	0.06 - 0.07 mg	0.08 - 0.09 mg	0.1 - 0.11 mg	0.12 – 0.14 mg	0.15 – 0.18 mg	0.19 – 0.22 mg	0.24 – 0.28 mg	0.3 – 0.36 mg	
	0.3 - 0.4 ml	0.6 - 0.7 ml	0.8 - 0.9 ml	1.0 – 1.1 ml	1.2 – 1.4 ml	1.5 - 1.8 ml	1.9 - 2.2 ml	2.4 - 2.8 ml	3.0 - 3.6 ml	

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(in lbs.):	6.6 - 11	13.2 - 15.4	17.6 - 19.8	22.0 - 24.2	26.4 - 30.8	33.0 - 39.6	41.8 - 48.4	52.8 - 61.6	66.0 - 79.2
GLUCAGON <i>Concentration 1 mg/1 ml</i> Dose < 20 Kg give 0.5 mg >20 Kg give 1mg <i>ml to give =</i>	0.5 mg	0.5 mg	0.5 mg	0.5 mg	0.5 mg	0.5 mg	1.0 mg	1.0 mg	1.0 mg
	0.5 ml if < 20 Kg						1.0 ml if > 20 Kg		
MIDAZOLAM <i>Concentration 5 mg/1 ml</i> Dose 0.1 mg/kg IM/IV/IO Max 2 mg <i>ml to give =</i>	0.3 - 0.5 mg	0.6 - 0.7 mg	0.8 - 0.9 mg	1.0 - 1.1 mg	1.2 - 1.4 mg	1.5 - 1.8 mg	1.9 - 2 mg	2 mg	2 mg
	0.06 - 0.1 ml	0.12 - 0.14 ml	0.16 - 0.18 ml	0.2 - 0.22 ml	0.24 - 0.28 ml	0.3 - 0.36 ml	0.38 - 0.4 ml	0.4 ml	0.4 ml
MIDAZOLAM <i>Concentration 5 mg/1 ml</i> Dose 0.2 mg/kg Intranasal Max 2 mg (1/2 in each nare) <i>ml to give =</i>	0.6 - 1 mg	1.2 - 1.4 mg	1.6 - 1.8 mg	2 mg	2 mg	2 mg	2 mg	2 mg	2 mg
	0.12 - 0.2ml	0.24 - 0.28 ml	0.32 - 0.36ml	0.4 ml	0.4 ml	0.4 ml	0.4 ml	0.4 ml	0.4 ml
MORPHINE <i>Concentration 10 mg/10 ml</i> Dose < 6 mos: 0.05 mg/kg IM / IV / IO Max 4 mg <i>ml to give =</i>	0.2 - 0.3 mg	0.3 - 0.4 mg	0.4 - 0.5 mg	*****	*****	*****	*****	*****	*****
	0.15 - 0.25 ml	0.3 - 0.35 ml	0.4 - 0.45 ml	*****	*****	*****	*****	*****	*****
MORPHINE <i>Concentration 10 mg/10 ml</i> Dose > 6 mos: 0.1 mg/kg IM/IV/IO <i>ml to give =</i>	*****	*****	*****	1.0 - 1.1 mg	1.2 - 1.4 mg	1.5 - 1.8 mg	1.9 - 2.2 mg	2.4 - 2.8 mg	3.0 - 3.6 mg
	*****	*****	*****	1.0 - 1.1 ml	1.2 - 1.4 ml	1.5 - 1.8 ml	1.9 - 2.2 ml	2.4 - 2.8 ml	3.0 - 3.6 ml
ONDANSETRON <i>Concentration 4 mg/2 ml</i> Dose 0.1 mg/kg <i>ml to give =</i>	*****	*****	*****	1 - 1.1 mg	1.2 - 1.4 mg	1.5 - 1.8 mg	1.9 - 2.2 mg	2.4 - 2.8 mg	3 - 3.6 mg
	*****	*****	*****	0.5 - 0.55 ml	0.6 - 0.7 ml	0.75 - 0.9 ml	0.95 - 1.1 ml	1.2 - 1.4 ml	1.5 - 1.8 ml

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(in lbs.):	6.6 - 11	13.2 - 15.4	17.6 - 19.8	22.0 - 24.2	26.4 - 30.8	33.0 - 39.6	41.8 - 48.4	52.8 - 61.6	66.0 - 79.2
PRALIDOXIME CHLORIDE (2-PAM) <i>Concentration 600 mg/2 ml</i> Dose 20 mg/kg IM /IV These dosages are not available outside of the autoinjectors, but are as follows, in hospital setting: <i>ml to give =</i>	Bronchospasm and respiratory secretions are the best acute symptoms to monitor for evaluating the response to Atropine/2-PAM: <ul style="list-style-type: none"> Decreased bronchospasm and respiratory secretions = getting better. No change or increased bronchospasm and respiratory secretions = needs more 2-PAM 								
	60 - 100 mg	120 - 140 mg	160 - 180 mg	200 - 220 mg	240 - 280 mg	300 - 360 mg	380 - 440 mg	480 - 560 mg	600 - 720 mg
	0.2 - 0.33 ml	0.4 - 0.47 ml	0.53 - 0.6 ml	0.67 - 0.73 ml	0.8 - 0.93 ml	1.0 - 1.2 ml	1.27 - 1.47 ml	1.6 - 1.87 ml	2.0 - 2.4 ml
SODIUM THIOSULFATE <i>Concentration 25% in 50ml (250 mg/ml)</i> Dose 412.5 mg/kg (1.65ml/kg) Max dose: 12.5 gm <i>ml to give =</i> (available in CHEMPACK disaster cache)	1.2 - 2.1 gm	2.5 - 2.9 gm	3.3 - 3.7 gm	4.1 - 4.5 gm	5 - 5.8 gm	6.2 - 7.4 gm	7.8 - 9.1 gm	9.9 - 11.6 gm	12.4 - 1gm
	5.0 - 8.3 ml	9.9 - 11.6 ml	13.2 - 14.9 ml	16.5 - 18.2 ml	19.8 - 23.1 ml	24.8 - 29.7 ml	31.4 - 36.3 ml	39.6 - 46.2 ml	50 ml