

APPROVED: SIGNATURE ON FILE IN EMS OFFICE  
Executive Director

EFFECTIVE DATE 4/15/2016  
SUPERCEDES: \_\_\_\_\_

SIGNATURE ON FILE IN EMS OFFICE  
Medical Director

REVIEW DATE: 4/2021  
PAGE: 1 of 2

**PEDIATRIC MEDICATION CHART**

- 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 EMTs, AEMTs and Paramedics within their scope of practice.
- III. PROTOCOL:

**DO NOT EXCEED ADULT TOTALS**  
c = concentration

	Premie	NB	3 Mos.	6 Mos.	1 Year	2 year	4 Year	6 Year	8 Year	10 Year	12 Year	13 Year	14 Year
<b>Avg. Body Length (centimeters)</b>	0 to 53	56	63	70	77	84	92	105	120	140	150	160	166
<b>Average Body Weight (kilograms)</b>	< 2.5	2.5 - 4	6	7	10	12	16	20	25	34	41	50	56
Adenosine c = 3 mg/ml dose = 0.1 mg/kg	-	0.25 - 0.4 mg	0.6 mg	0.7 mg	1 mg	1.2 mg	1.6 mg	2.0 mg	2.5 mg	3.4 mg	4.1 mg	5.0 mg	5.6 mg
Albuterol 1 unit dose (3 ml of 0.083% nebulizer solution)	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit
Atropine IV c = 0.1 mg/ml dose = 0.02 mg/kg (cardiac dose)	-	.1 mg	0.12 mg	0.14 mg	0.2 mg	0.24 mg	0.32 mg	0.4 mg	0.5 mg	0.68 mg	0.82 mg	1.0 mg	1.12 mg
Dextrose (D50W diluted to D25W) dose = 2 ml/kg	2 - 5 ml	5 - 8 ml	12 ml	14 ml	20 ml	24 ml	-	-	-	-	-	-	-
Dextrose (D50W) dose = 1 ml/kg	-	-	-	-	-	-	16 ml	20 ml	25 ml	34 ml	41 ml	50 ml	50 ml
Fentanyl IN c = 50 mcg/ml dose = 1.5 mcg/kg	3.75 mcg	3.75 - 6 mcg	9 mcg	10.5 mcg	15 mcg	18 mcg	24 mcg	30 mcg	37.5 mcg	51 mcg	61.5 mcg	75 mcg	84 mcg
Fentanyl IM/IV/IO c = 50 mcg/ml dose = 1 mcg/kg	2.5 mcg	2.5 - 4 mcg	6 mcg	7 mcg	10 mcg	12 mcg	16 mcg	20 mcg	25 mcg	34 mcg	41 mcg	50 mcg	56 mcg
Midazolam IV c = 5 mg/ml dose = 0.1 mg/kg	0.1 - 0.25 mg	0.25 - 0.4 mg	0.6 mg	0.7 mg	1 mg	1.2 mg	1.6 mg	2 mg	2 mg	2 mg	2 mg	2 mg	2 mg
Diphenhydramine c = 10 mg/ml dose = 1 mg/kg	1 - 2.5 mg	2.5 - 4 mg	6 mg	7 mg	10 mg	12 mg	16 mg	20 mg	25 mg	34 mg	41 mg	50 mg	50 mg

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<b>Average Body Weight (kilograms)</b>	< 2.5	2.5 - 4	6	7	10	12	16	20	25	34	41	50	56
<b>Dopamine</b>	FOR A CONCENTRATION OF <b>800</b> µg of DOPAMINE PER MILLILITER SOLUTION: One 5 ml ampule of Dopamine (200 mg of dopamine per ampule) mixed in 250 ml of NS												
<b>10µg IV/IO</b>	1	3	4	5	7	9	12	15	19	25	31	37	42
<b>15µg IV/IO</b>	2	4	7	8	11	13	18	22	28	38	46	56	63
<b>20µg IV/IO</b>	3	6	9	10	15	18	24	30	37	51	61	75	84
<b>Epinephrine 1:10,000 IV/IO</b> dose = 0.01 mg/kg	0.01 - 0.025 mg	0.025 - .04 mg	0.06 mg	0.07 mg	0.1 mg	0.12 mg	0.16 mg	0.2 mg	0.25 mg	0.34 mg	0.41 mg	0.5 mg	0.56 mg
<b>Epinephrine 1:1000 SQ</b> dose = 0.01 mg/kg	-	-	0.06 mg	0.07 mg	0.1 mg	0.12 mg	0.16 mg	0.2 mg	0.25 mg	0.34 mg	0.41 mg	0.5 mg	0.56 mg
<b>Fluid Challenge dose = 20 ml/kg</b>	20 - 50ml	50 - 80ml	120 ml	140 ml	200 ml	240 ml	320 ml	400 ml	500 ml	680 ml	820 ml	1000 ml	1000 ml
<b>Glucagon</b> c = 1 mg/ml or 1 unit/ml dose = 0.05 mg/kg (up to 1 mg)	0.3 mg	0.3 mg	0.3 mg	0.35 mg	0.5 mg	0.6 mg	0.8 mg	1 mg	1 mg	1 mg	1 mg	1 mg	1 mg
<b>Lidocaine IV</b> c = 20 mg/ml dose = 1 mg/kg	-	2.5 - 4 mg	6 mg	7 mg	10 mg	12 mg	16 mg	20 mg	25 mg	34 mg	41 mg	50 mg	56 mg
<b>Morphine</b> c = 10 mg/ml dose = 0.1 mg/kg	-	0.25 - 0.4 mg	0.6 mg	0.7 mg	1 mg	1.2 mg	1.6 mg	2.0 mg	2.5 mg	3.4 mg	4.1 mg	5 mg	5.6 mg
<b>Naloxone</b> c = 1 mg/ml dose = 0.1 mg/kg (up to 2 mg)	0.1 - 0.25 mg	0.25 - 0.4 mg	0.6 mg	0.7 mg	1 mg	1.2 mg	1.6 mg	2 mg	2 mg	2 mg	2 mg	2 mg	2 mg
<b>Sodium Bicarbonate</b> c = 1 mEq/ml dose = 1 mEq/kg	1 - 2.5 mEq	2.5 - 4 mEq	6 mEq	7 mEq	10 mEq	12 mEq	16 mEq	20 mEq	25 mEq	34 mEq	41 mEq	50 mEq	50 mEq