

ORANGE COUNTY EMERGENCY MEDICAL SERVICES

PEDIATRIC MEDICATION VOLUME DOSE BY HEAD-HEEL LENGTH MEASUREMENT

ALS Reference # I-20

		Newborn	3 MO	6 MO	1 YR	2 YR	3-4 YR	5-6 YR	7-8 YR	9-10 YR	11-12 YR
Length in centimeter range for age		47-60 cm	60-65 cm	66-74 cm	75-86 cm	83-95 cm	87-99 cm	100-113 cm	114-132 cm	133-158 cm	159-189 cm
Average kilograms/pounds		3-5kg/7-11lb	6 kg/13lb	8 kg/15lb	11kg/24lb	13 kg/29lb	16kg/35lb	20kg/44lb	26kg/57lb	31kg/68lb	40kg/88lb
Expected Heart Rate		100-160	100-160	100-160	100-170	90-150	80-140	75-120	70-110	60-105	60-100
Expected Respiratory Rate		30-60	30-60	30-60	30-40	24-40	20-30	20	16	16	16
MEDICATION / CONCENTRATION (Boxed Meds by Base Hospital Order only)	DOSE	Newborn to 3 Month	3-6 Month 60-65 cm	7-12 Months 66-75 cm	13-24 Months 76-87 cm	25-35 Months 88-92 cm	3-5 Years 93-100 cm	5+ to 7 years 101-114 cm	7+ to 9 years 115 -133 cm	9+ to 11 years 134-159 cm	11+ to 13 years 160-190 cm
Adenosine IV 3 mg/1mL	0.2 mg/kg	0.2 mL	0.4 mL	0.6 mL	0.7 mL	0.9 mL	1 mL	1.3 mL	1.6 mL	2 mL	2.7 mL
Albuterol 2.5 mg/3mL	via nebulizer at 8L/min flow rate	3.0 mL	3.0 mL	3.0 mL	6.0 mL	6.0 mL	6.0 mL	6.0 mL	6.0 mL	6.0 mL	6.0 mL
Amiodarone IV/IO for VF/ pulseless VT 50 mg/1 mL	5 mg/kg	0.4 mL	0.6 mL	0.8 mL	1.1 mL	1.3 mL	1.6 mL	2.0 mL	2.4 mL	3.0 mL	3.0 mL
Amiodarone IV for VT with pulse 50 mg/1 mL	5 mg/kg over 10 minutes	0.4 mL	0.6 mL	0.8 mL	1.1 mL	1.3 mL	1.6 mL	2.0 mL	2.4 mL	3.0 mL	3.0 mL
Atropine IV/IM 1 mg/1 mL (Organophosphate toxicity dosing)	0.1 mg/kg	0.4 mL	0.5 mL	0.8 mL	1.0 mL	1.3 mL	1.6 mL	2.0 mL	2.6 mL	3.1 mL	4.0 mL
Atropine IV/IM 1 mg/10 mL (Organophosphate toxicity dosing)	0.1 mg/kg	4.0 mL	6.0 mL	5.0 mL	5.0 mL	5.0 mL	5.0 mL	5.0 mL	5.0 mL	5.0 mL	5.0 mL
Dextrose 10% in H ₂ O solution 0.1 mg/mL	5 mL/kg	20 mL	30 mL	40 mL	50 mL	65 mL	80 mL	100 mL	130 mL	150 mL	200 mL
Diphenhydramine IM/IV/IO 50 mg/mL	1 mg/kg	N/A	0.1 mL	0.2 mL	0.2 mL	0.3 mL	0.3 mL	0.4 mL	0.5 mL	0.6 mL	0.8 mL
Epinephrine 1.0 mg/mL IM (1 mg/1 mL)	0.01 mg/kg	N/A	0.05 mL	0.08 mL	0.1 mL	0.1 mL	0.16 mL	0.2 mL	0.25 mL	0.3 mL	0.3 mL
Epinephrine 0.1 mg/mL IV/IO (1 mg/10 mL)	0.01 mg/kg	0.4 mL	0.5 mL	0.8 mL	1 mL	1.3 mL	1.6 mL	2 mL	2.5 mL	3 mL	3 mL
Fentanyl IN/IV/IM 50 mcg/1 mL	2 mcg/kg	----	0.15 mL	0.2 mL	0.5 mL	0.5 mL	0.6 mL	0.8 mL	1.0 mL	1.0 mL	1.0 mL
Glucagon IM 1 mg/mL	0.5 mg	----	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL

APPROVED



Review Dates: 5/16, 11/16, 4/17, 11/17, 8/18

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Final Implementation Date: 4/01/2019

