

App I	Appendix I: Pediatric Quick Reference	App I
2020	Academy of Medicine of Cincinnati - Protocols for SW Ohio	2020

AGE		0-3 m	6 m	9-24 m	3 y	6 y	8 y	10 y	12 y	14 y
WEIGHT	lbs	6-7	11	20	30	40	50	60	80	100
	kg	3	5	10	15	20	25	30	40	50
VITAL SIGNS	Low Limit Systolic BP	60-70	70	70-75	75-80	80	80	85	85	90
	Pulse	100-180	100-180	90-160	80-140	70-130	70-130	60-120	60-120	60-120
AIRWAY	ETT Size	3.0-3.5	3.5	4.0-4.5	5.0	5.5	6.0	6.5	7.0	7.0
DRUGS ²	Acetaminophen – PO	45 mg	75 mg	150 mg	225 mg	300 mg	375 mg	450 mg	600 mg	750 mg
	Adenosine 3 mg/mL – IV (0.1 mg/kg)	0.3 mg (0.1 mL)	0.5 mg (0.17 mL)	1 mg (0.33 mL)	1.5 mg (0.5 mL)	2 mg (0.67 mL)	2.5 mg (0.83 mL)	3 mg (1 mL)	4 mg (1.33 mL)	5 mg (1.67 mL)
	Amiodarone 50 mg/mL – IV/IO (5 mg/kg)	15 mg (0.3 mL)	25 mg (0.5 mL)	50 mg (1 mL)	75 mg (1.5 mL)	100 mg (2 mL)	125 mg (2.5 mL)	150 mg (3 mL)	200 mg (4 mL)	250 mg (5 mL)
	Atropine 0.1 mg/mL – IV/IO (0.02 mg/kg)	0.06 mg (0.6 mL)	0.1 mg (1 mL)	0.2 mg (2 mL)	0.3 mg (3 mL)	0.4 mg (4 mL)	0.5 mg (5 mL)	0.5 mg (5 mL)	0.5 mg (5 mL)	0.5 mg (5 mL)
	Atropine 0.1 mg/mL – ETT (0.04 mg/kg)	0.12 mg (1.2 mL)	0.2 mg (2 mL)	0.4 mg (4 mL)	0.6 mg (6 mL)	0.8 mg (8 mL)	1 mg (10 mL)	1.2 mg (12 mL)	1.6 mg (16 mL)	2 mg (20 mL)
	Bicarbonate 8.4% (1 mEq/mL) – IV/IO (1 mEq/kg)	3 mEq (3 mL)	5 mEq (5 mL)	10 mEq (10 mL)	15 mEq (15 mL)	20 mEq (20 mL)	25 mEq (25 mL)	30 mEq (30 mL)	40 mEq (40 mL)	50 mEq (50 mL)
	Dextrose 10% - IV/IO (5 mL/kg) (0.5 gm/kg)	1.5 gm (15 mL)	2.5 gm (25 mL)	5 gm (50 mL)	7.5 gm (75 mL)	10 gm (100 mL)	12.5 gm (125 mL)	15 gm (150 mL)	20 gm (200 mL)	25 gm (250 mL)
	Dextrose 25% ¹ – IV/IO (2 mL/kg) (0.5 gm/kg)	1.5 gm (6 mL)	2.5 gm (10 mL)	5 gm (20 mL)	7.5 gm (30 mL)	10 gm (40 mL)	12.5 gm (50 mL)	15 gm (60 mL)	20 gm (80 mL)	25 gm (100 mL)
	Dextrose 50% – IV/IO (1 mL/kg) (0.5 gm/kg)	N/A	N/A	N/A	7.5 gm (15 mL)	10 gm (20 mL)	12.5 gm (25 mL)	15 gm (30 mL)	20 gm (40 mL)	25 gm (50 mL)
	Diphenhydramine 50 mg/mL – IM/IV (1 mg/kg)	N/A	N/A	10 mg (0.2 mL)	15 mg (0.3 mL)	20 mg (0.4 mL)	25 mg (0.5 mL)	30 mg (0.6 mL)	40 mg (0.8 mL)	50 mg (1 mL)
	Epinephrine 0.1 mg/mL – IV/IO (0.01 mg/kg)	0.03 mg (0.3 mL)	0.05 mg (0.5 mL)	0.1 mg (1 mL)	0.15 mg (1.5 mL)	0.2 mg (2 mL)	0.25 mg (2.5 mL)	0.3 mg (3 mL)	0.4 mg (4 mL)	0.5 mg (5 mL)
	Epinephrine 1 mg/mL – ETT (0.1 mg/kg)	0.3 mg (0.3 mL)	0.5 mg (0.5 mL)	1 mg (1 mL)	1.5 mg (1.5 mL)	2 mg (2 mL)	2.5 mg (2.5 mL)	2.5 mg (2.5 mL)	2.5 mg (2.5 mL)	2.5 mg (2.5 mL)
	Epinephrine 1 mg/mL – Intramuscular (IM) (0.01 mg/kg)	N/A	0.05 mg (0.05 mL)	0.1 mg (0.1 mL)	0.15 mg (0.15 mL)	0.2 mg (0.2 mL)	0.25 mg (0.25 mL)	0.3 mg (0.3 mL)	0.3 mg (0.3 mL)	0.3 mg (0.3 mL)
	Fentanyl 50 mcg/mL – IV/IO/IM/SC (1 mcg/kg)	N/A	5 mcg (0.1 mL)	10 mcg (0.2 mL)	15 mcg (0.3 mL)	20 mcg (0.4 mL)	25 mcg (0.5 mL)	30 mcg (0.6 mL)	40 mcg (0.8 mL)	50 mcg (1 mL)
	Fentanyl 50 mcg/mL – IN (2 mcg/kg)	N/A	10 mcg (0.2 mL)	20 mcg (0.4 mL)	30 mcg (0.6 mL)	40 mcg (0.8 mL)	50 mcg (1 mL)	60 mcg (1.2 mL)	80 mcg (1.6 mL)	100mcg (2 mL)
	Glucagon – IM (1 unit/mL)	0.5 mg (0.5 mL)	0.5 mg (0.5 mL)	0.5 mg (0.5 mL)	0.5 mg (0.5 mL)	1 mg (1 mL)	1 mg (1 mL)	1 mg (1 mL)	1 mg (1 mL)	1 mg (1 mL)
	Lidocaine 2% (20 mg/mL) – IV/IO (ARREST DOSE) (1 mg/kg)	3 mg (0.15 mL)	5 mg (0.25 mL)	10 mg (0.5 mL)	15 mg (0.75 mL)	20 mg (1 mL)	25 mg (1.25 mL)	30 mg (1.5 mL)	40 mg (2 mL)	50 mg (2.5 mL)
	Lidocaine 2% (20 mg/mL) (for numbing before IO infusions)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 mL	1 mL
	Methylprednisolone 62.5 mg/mL – IV/IO/IM (Same dose may also be given PO)	N/A	N/A	N/A	30 mg (0.5 mL)	30 mg (0.5 mL)	60 mg (1 mL)	60 mg (1 mL)	60 mg (1 mL)	60 mg (1 mL)
	Midazolam 5 mg/mL (Seizures – All Routes)	0.6 mg (0.12 mL)	1 mg (0.2 mL)	2 mg (0.4 mL)	3 mg (0.6 mL)	4 mg (0.8 mL)	5 mg (1 mL)	5 mg (1 mL)	5 mg (1 mL)	10 mg (2 mL)
	Midazolam 5 mg/mL (Sedation – IV/IO) (0.1 mg/kg)	0.3 mg (0.06 mL)	0.5 mg (0.1 mL)	1 mg (0.2 mL)	1.5 mg (0.3 mL)	2 mg (0.4 mL)	2.5 mg (0.5 mL)	3 mg (0.6 mL)	4 mg (0.8 mL)	5 mg (1 mL)
	Midazolam 5 mg/mL (Sedation – IM/IN) (0.2 mg/kg)	0.6 mg (0.12 mL)	1 mg (0.2 mL)	2 mg (0.4 mL)	3 mg (0.6 mL)	4 mg (0.8 mL)	5 mg (1 mL)	6 mg (1.2 mL)	8 mg (1.6 mL)	10 mg (2 mL)
	Morphine sulfate 10 mg/mL – IV/IO/IM/SC (0.1 mg/kg)	N/A	N/A	N/A	1.5 mg (0.15 mL)	2 mg (0.2 mL)	2.5 mg (0.25 mL)	3 mg (0.3 mL)	4 mg (0.4 mL)	5 mg (0.5 mL)
	Naloxone 1 mg/mL – All Routes (0.1 mg/kg)	0.3 mg (0.3 mL)	0.5 mg (0.5 mL)	1 mg (1 mL)	1.5 mg (1.5 mL)	2 mg (2 mL)	2 mg (2 mL)	2 mg (2 mL)	2 mg (2 mL)	2 mg (2 mL)
	Prednisolone 3 mg/mL liquid	N/A	N/A	N/A	30 mg (10 mL)	30 mg (10 mL)	60 mg (20 mL)	60 mg (20 mL)	60 mg (20 mL)	60 mg (20 mL)
	Ondansetron 2 mg/mL - IV	N/A	N/A	1.5 mg (0.75 mL)	2 mg (1 mL)	3 mg (1.5 mL)	4 mg (2 mL)	4 mg (2 mL)	4 mg (2 mL)	4 mg (2 mL)
Ondansetron 4 mg tablet	N/A	N/A	N/A	4 mg	4 mg	4 mg	4 mg	4 mg	4 mg	
Prednisone 20 mg tablets	N/A	N/A	N/A	30 mg (1.5 tabs)	30 mg (1.5 tabs)	60 mg (3 tabs)	60 mg (3 tabs)	60 mg (3 tabs)	60 mg (3 tabs)	
Tranexamic Acid 10 mg/mL ³ – IV	45 mg (4.5 mL)	75 mg (7.5 mL)	150 mg (15 mL)	225 mg (22.5 mL)	300 mg (30 mL)	375 mg (37.5 mL)	450 mg (45 mL)	1000 mg (100 mL)	1000 mg (100 mL)	
IV/IO FLUID ²	Normal Saline Bolus (20 mL/kg)	60 mL	100 mL	200 mL	300 mL	400 mL	500 mL	600 mL	800 mL	1000mL
	Hypertonic 3% saline solution ONCE; max 500mL (For increased Intracranial Pressure)	12 mL	20 mL	40 mL	60 mL	80 mL	100 mL	120 mL	160 mL	200 mL
DEFIBRILLATOR ²	Round up to closest #	6 J	10 J	20 J	30 J	40 J	50 J	60 J	80 J	100 J

¹ Mix ½ amp of D50 (25 mL) with 25 mL of normal saline to = D25%

² Updated November 2019. Use of a Broselow tape is also acceptable for dosages.

³ Mix 1 gram Tranexamic Acid in 100 mL of normal saline to = 10 mg/mL

N/A = Do not use in this age category; call Medical Control