

Normal Vital Signs

5-6 years

***Weight (KG):**19-23kg

Weight (Lbs): 41.9-50.7

Heart Rate (Beats per minute): 66-120

Respiratory Rate (Breaths per minute): 16-30

Blood Pressure (Systolic Range/ Diastolic Range): 94-118/52-78

MAP (mmHg): 66-87

Broselow color: Blue

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Equipment

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Formula
Tidal Volume	104-168 mL	4-8 mL/kg
Laryngoscope	2 Straight/Curved	-
Un-cuffed ETT	5.5 mm	$(\text{Age}/4)+4$
Cuffed ETT	5.0 mm	$(\text{Age}/4)+3$
ETT Depth	16.5 cm	-
i-Gel SGA	Size 2 (grey)	10-25 kg
NPA	24 Fr	-
OPA	70 mm (white)	-
Suction Cath	10 Fr	-

Airway Induction Doses

5 Years, 21 kg (46.2), Broselow Blue

	Values	Details
Normal Saline Bolus (IV)	210 mL	10 ml/kg
ketAMINE (IV/IO)	21 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	21 mcg	1.0 mcg/kg
MIDAZOLam (IV/IO)	2.1 mg	0.1 mg (100 mcg)/kg PRN

Maintenance doses on [PR18: Anesthesia Induction](#) Page

Respiratory & Allergic Reaction

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Details
<u>Dexamethasone</u> (PO/IM/IV)	10.5mg Dose = 2.63mL Dexamethasone Solution	21kg x 0.5mg/kg = 10.5mg Dose Supplied Dexamethasone 4mg/ml
<u>DiphenhydrAMINE</u> (IM/IV)	21 mg	1 mg/kg
<u>EPINEPHrine</u> (IM)	0.21 mg (210 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
<u>EPINEPHrine</u> (Neb)	5 mg	5mg in 5 ml dose
<u>EPINEPHrine</u> (IV)	0.105 mg (105 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
<u>Ipratropium</u> (Neb)	250mcg	½ nebule
<u>Ipratropium</u> (MDI)	80 mcg	20 mcg x 4
<u>Salbutamol</u> (Neb)	5 mg	
<u>Salbutamol</u> (MDI)	1000 mcg	10 x 100 mcg per course; may repeat up to 3 times
<u>Magnesium</u> <u>Sulfate</u> (IV infusion)	1,050 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Details
Defibrillation	42/84 J	2 & 4 J/kg
EPINEPHrine (IV)	0.21 mg (210 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	2.1 mg	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	105 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	21 mg	1 mg/kg
Lidocaine (ETT)	42 mg	2 mg/kg
Sodium Bicarbonate (IV)	21 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	1,050 mg	50 mg/kg; Max 4 g
Calcium Chloride (IV)	420 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	2.1 mg	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	4.2 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Details
Adenosine (IV)	2.1/4.2 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	105 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	11/20 J	0.5 & 1.0 J/kg

Bradycardia

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Details
EPINEPHrine (IV)	0.21mg (210 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes.
Atropine (IV)	0.42 mg (420 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	0.84 mg (840 mcg)	0.04 mg (40 mcg)/kg; Max single dose 1.2 mg; Max total dose 6 mg; May repeat x5 in 3-5 minutes

Fluid Resuscitation

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Details
Normal Saline	105 mL (420 mL)	5 mL/kg bolus x4; (Max 20 mL/kg)

Tranexamic Acid

315 mg over 1 minute

Volume of Tranexamic Acid: 3.1 ml

Sedation, Seizure, & Analgesia

5 Years, 21 kg (46.2 lbs), Broselow Blue

	<u>Values</u>	<u>Details</u>
<u>KetAMINE</u> (IN)	31.5 mg	1.5 mg/kg, Max 50 mg *
<u>KetAMINE</u> (IM)	10.5 mg	0.5 mg (500 mcg)/kg *
<u>KetAMINE</u> (IV/IO)	6.3 mg	0.3 mg (300 mcg)/kg, Single Dose Max 20 mg, Max Total 0.6 mg (600 mcg)/kg *
<u>MIDAZOLam</u> (IM/IN)	4.2 mg	0.2 mg (200 mcg)/kg; Max 10 mg
<u>MIDAZOLam</u> (IV/IO)	1.8 mg	0.1 mg (100 mcg)/kg; Max 5 mg
<u>FentaNYL</u> (IN)	31.5mcg- 42mcg	1.5-2.0 mcg/kg, Single Dose Max 100 mcg
<u>FentaNYL</u> (IM/IV/IO)	21 mcg - 42 mcg	1-2 mcg/kg, Single Dose Max 50 mcg q 5 min, Max Total 200 mcg
<u>Morphine</u> (IV/IM)	2.1 mg	0.1 mg (100 mcg)/kg
<u>DimenhyDRINATE</u> (IV/IM) <i>ACP & Above</i>	26.25 mg	1.25 mg/kg, Max 5 mg/kg/day or Single dose of 25 mg
<u>Ondansetron</u> (IV)	2.1 mg	0.1 mg (100 mcg)/kg
<u>Ibuprofen</u> (PO)	210 mg	10 mg/kg
<u>Acetaminophen</u> (PO)	315 mg (4 mL)	15 mg/kg (80 mg/mL)

*See drug monographs for repeat dosages

Poisoning & Overdose

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Details
Naloxone (IV/IM)	2.0 mg	0.1 mg (100 mcg)/kg; to a maximum of 2 mg/dose. Repeat q 3 mins to effect. No maximum cumulative dose.
Glucagon (IV)	2.1 mg	Beta-blocker overdose 0.1 mg (100 mcg)/kg IV

***Note: Higher doses for naloxone in pediatrics are prescribed as pediatric patients are unlikely to experience withdrawal*

Diabetic

5 Years, 21 kg (46.2 lbs), Broselow Blue

	Values	Details
Dextrose 10% (D10W)	105 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.63 mg (630 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

