

Normal Vital Signs

10-11 years

***Weight (KG):** 30-36kg

Weight (Lbs): 66.1-79.3

Heart Rate (Beats per minute): 60-110

Respiratory Rate (Breaths per minute): 15-29

Blood Pressure (Systolic Range/ Diastolic Range): 100-121/ 60-80

MAP (mmHg): 72-94

Broselow color: Green

*Weight based on Broselow tape

** Vital approximations based on BC PEWS

Airway Equipment

12 Years, 40 kg (88.2 lbs)

	Values	Formula
Tidal Volume	240 mL	4-8 mL/kg
Laryngoscope	3 Straight/Curved	-
Un-cuffed ETT	6.5 mm	$(\text{Age}/4)+4$
Cuffed ETT	6 mm	$(\text{Age}/4)+3$
ETT Depth	19.5 cm	-
i-Gel SGA	Size 3 (yellow)	30-60 kg
NPA	28-30 Fr	-
OPA	80 mm (green)	-
Suction Cath	12-14 Fr	-

Airway Induction Doses

12 Years, 40 kg (88.2 lbs)

	Values	Details
Normal Saline Bolus (IV)	400 mL	10 mL/kg
ketAMINE (IV/IO)	40 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	40 mcg	1 mcg/kg
MIDAZOLam (IV/IO)	4 mg	0.1 mg (100 mcg)/kg PRN

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

Respiratory & Allergic Reaction

12 Years, 40 kg (88.2 lbs)

	Values	Details
<u>Dexamethasone</u> (PO/IM/IV)	16mg dose = 4.00mL Dexamethasone solution administered	40kg x0.5mg/kg 4mg/ml Dexamethasone solution supplied
<u>DiphenhydrAMINE</u> (IM/IV)	40 mg	1 mg/kg
<u>Epinephrine</u> (IM)	0.4 mg (400 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
<u>Epinephrine</u> (Neb)	5 mg	5 mg
<u>Epinephrine</u> (IV)	0.2 mg (200 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
<u>Salbutamol</u> (Neb)	5 mg	-
<u>Salbutamol</u> (MDI)	1000 mcg	10 x 100 mcg per course, May repeat up to 3x
<u>Ipratropium</u> (Neb)	250mcg	½ nebule
<u>Ipratropium</u> (MDI)	80mcg	20mcg x 4 sprays
<u>Magnesium</u> <u>Sulfate</u> (IV infusion)	2 g	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

12 Years, 40 kg (88.2 lbs)

	Values	Details
Defibrillation	80/160 J	2 & 4 J/kg
EPINEPHrine (IV)	0.4 mg (400 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	4 mg	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	150 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	40 mg	1 mg/kg
Lidocaine (ETT)	80 mg	2 mg/kg
Sodium Bicarbonate (IV)	40 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	2 g	50 mg/kg; Max 4 g
Calcium Chloride (IV)	500 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	4 mg	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	8 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

12 Years, 40 kg (88.2 lbs)

	Values	Details
Adenosine (IV)	4/8 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	150 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	20/40 J	0.5 & 1.0 J/kg

Bradycardia

12 Years, 40 kg (88.2 lbs)

	Values	Details
EPINEPHrine (IV)	0.4 mg (400 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.6 mg (600 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	1.2 mg	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

12 Years, 40 kg (88.2 lbs)

	Values	Details
Normal Saline	200 mL (800 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Tranexamic Acid

2 g over 1 minute

Volume of Tranexamic Acid: 20 ml

Sedation, Seizure, & Analgesia

12 Years, 40 kg (88.2 lbs)

	<u>Values</u>	<u>Details</u>
<u>KetAMINE</u> (IN)	50 mg	1.5 mg/kg, Max 50 mg*
<u>KetAMINE</u> (IM)	20 mg	0.5 mg (500 mcg)/kg*
<u>KetAMINE</u> (IV/IO)	12 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)	8 mg	0.2 mg (200 mcg)/kg; Max 10 mg
<u>MIDAZOLam</u> (IV/IO)	4 mg	0.1 mg (100 mcg)/kg; Max 5 mg
<u>FentaNYL</u> (IN)	60 mcg - 80 mcg	1.5-2 mcg/kg, Single Dose Max 100 mcg
<u>FentaNYL</u> (IM/IV/IO)	40 mcg - 50 mcg	1-2 mcg/kg, Single Dose Max 50 mcg q 5 min, Max Total 200 mcg
<u>Morphine</u> (IV/IM)	4 mg	0.1 mg (100 mcg)/kg
<u>DimenhyDRINATE</u> (IV/IM) <i>PCP & Above</i>	25 mg	1.25 mg/kg, Max single dose of 25 mg or Max 5 mg/kg/day
<u>Ondansetron</u> (IV)	4 mg	0.1 mg (100 mcg)/kg
<u>Ibuprofen</u> (PO)	300 mg	10 mg/kg
<u>Acetaminophen</u> (PO)	600 mg (7.5 mL)	15 mg/kg (80 mg/mL)

*See drug monographs for repeat dosages

Poisoning & Overdose

12 Years, 40 kg (88.2 lbs)

	Values	Details
Naloxone (IV/IM)	2 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)	4 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

12 Years, 40 kg (88.2 lbs)

	Values	Details
Dextrose 10% (D10W)	200 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	1 mg	0.03 mg (30 mcg)/kg; Max 1 mg

