

0-28 days

***Weight (KG):** 3.3- 4.15

Weight (Lbs): 7.2-9.14

Heart Rate (Beats per minute): 104-162

Respiratory Rate (Breaths per minute): 31-60

Blood Pressure (Systolic Range/ Diastolic Range): 60-80/30-53

MAP (mmHg): 40 or higher

Broselow color: Grey

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Equipment

Premature, 1.5 kg (3.3 lbs)

	Values	Formula
Tidal Volume	10 mL	4-8 mL/kg
Laryngoscope	0 - 1 Straight	-
Un-cuffed ETT	2.5 - 3 mm	$(\text{Age}/4)+4$
Cuffed ETT	2 - 2.5 mm	$(\text{Age}/4)+3$
ETT Depth	7.5 - 9 cm	3 (ETT Size)
i-Gel SGA	N/A	-
NPA	-	-
OPA	40 mm (pink)	-
Suction Cath	6 Fr	-

Airway Induction Doses

Premature, 1.5 kg (3.3 lbs)

	Values	Details
Normal Saline Bolus (IV)	15 ml	10 ml/kg
ketAMINE (IV/IO)	1.5 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	15 mcg	1.0 mcg/kg
MIDAZOLam (IV/IO)	0.15 mg (150 mcg)	0.1 mg (100 mcg)/kg PRN

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

Respiratory & Allergic Reaction

Premature, 1.5 kg (3.3 lbs)

	Values	Details
DiphenhydrAMINE (IM/IV)	1.5 mg	1 mg/kg
EPINEPHrine (IM)	0.02 mg (20 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg
EPINEPHrine (Neb)	5 mg	0.5 mg (500 mcg)/kg in 5 mL N/S; Max 5 mg
EPINEPHrine (IV)	0.01 mg (10 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg
Salbutamol (Neb)	2.5 mg	-
Salbutamol (MDI)	---	NOT indicated
Magnesium Sulfate (IV infusion)	75 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

Premature, 1.5 kg (3.3 lb)

	Values	Details
Defibrillation	3/6 J	2 & 4 J/kg
EPINEPHrine (IV)	0.02 mg (20 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	0.2 mg (200 mcg)	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	7.5 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	1.5 mg	1 mg/kg
Lidocaine (ETT)	1.5 mg	2 mg/kg
Sodium Bicarbonate (IV)	1.5 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	75 mg	50 mg/kg; Max 4g
Calcium Chloride (IV)	30 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	0.2 mg (200 mcg)	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	0.2 mg (200 mcg)	0.2 mg (200 mcg)/kg; Max 4 mg

Tachycardia

Premature, 1.5 kg (3.3 lbs)

	Values	Details
Adenosine (IV)	0.2/0.4 mg (200/400 mcg)	0.1 & 0.2 mg (100 mcg & 200 mcg)/kg
Amiodarone (IV infusion)	7.5 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	1/2 J	0.5 & 1.0 J/kg

Bradycardia

Premature, 1.5 kg (3.3 lbs)

	Values	Details
EPINEPHrine (IV)	0.02 mg (20 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.1 mg (100 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); Min single dose 0.1 mg (100 mcg); May repeat once
Atropine (ETT)	0.06 mg (60 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

Premature, 1.5 kg (3.3 lbs)

	Values	Details
Normal Saline	7.5 mL (Max 30 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Sedation, Seizure, & Analgesia

Premature, 1.5 kg (3.3 lbs)

	Values	Details
Midazolam (IM/IN/ETT)	0.4 mg (400 mcg)	0.2 mg (200 mcg)/kg; Max 10 mg
Midazolam (IV)	0.2 mg (200 mcg)	0.1 mg (100 mcg)/kg; Max 5 mg
Morphine (IV/IM)	0.2 mg (200 mcg)	0.1 mg (100 mcg)/kg
Dimenhydrinate (IV/IM)	1.5 mg	1 mg/kg
Acetaminophen (PO/PR)	20 mg (0.25 mL)	15 mg/kg (80 mg/mL)

Poisoning & Overdose

Premature, 1.5 kg (3.3 lbs)

	Values	Details
Naloxone (IV/IM)		Should not be administered to neonates due to risk of acute withdrawal. Contact CliniCall to discuss options.
Glucagon (IV)	0.15 mg (150 mcg)	0.1 mg (100 mcg)/kg IV for beta-blocker overdose

Diabetic

Premature, 1.5 kg (3.3 lbs)

	Values	Details
Dextrose 10% (D10W)	8 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.05 mg (50 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

1 month-3 months (<3 months)

***Weight (KG):** 3-5KG

Weight (Lbs): 6.6-11.0

Heart Rate (Beats per minute): 104-162

Respiratory Rate (Breaths per minute): 31-60

Blood Pressure (Systolic Range/ Diastolic Range): 73-105/36-68

MAP (mmHg):48 or higher

Broselow color: Grey

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Equipment

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Formula
Tidal Volume	20 mL	4-8 mL/kg
Laryngoscope	0-1 Straight	-
Un-cuffed ETT	2.5-3 mm	$(\text{Age}/4)+4$
Cuffed ETT	2-2.5 mm	$(\text{Age}/4)+3$
ETT Depth	7.5-9 cm	-
i-Gel SGA	Size 1 (pink)	2-5 kg
NPA	14 Fr	-
OPA	40 mm (pink)	-
Suction Cath	6-8 Fr	-

Airway Induction Doses

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
Normal Saline Bolus (IV)	35 mL	10 ml/kg
ketAMINE (IV/IO)	3.5 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	3.5 mcg	1 mcg/kg
MIDAZOLam (IV/IO)	0.35 mg (350 mcg)	0.1 mg (100 mcg)/kg PRN

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

Respiratory & Allergic Reaction

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
diphenhydRAMINE (IM/IV)	3.5 mg	1 mg/kg
Epinephrine (IM)	0.04 mg (40 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
Epinephrine (Neb)	5 mg	5mg/ in 5ml
Epinephrine (IV)	0.02 mg (20 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
Salbutamol (Neb)	2.5 mg	-
Salbutamol (MDI)	---	NOT indicated
Magnesium Sulfate (IV infusion)	175 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
Defibrillation	7/14 J	2 & 4 J/kg
EPINEPHrine (IV)	0.04 mg (40 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	0.4 mg (400 mcg)	0.1 mg (100 mcg)/kg; Max 10 mg
AmIODAROne (IV)	17.5 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	3.5 mg	1 mg/kg
Lidocaine (ETT)	3.5 mg	2 mg/kg
Sodium Bicarbonate (IV)	3.5 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	175 mg	50 mg/kg; Max 4 g
Calcium Chloride (IV)	70 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	0.4 mg (400 mcg)	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	0.4 mg (400 mcg)	0.2 mg (200 mcg)/kg; Max 4 mg

Tachycardia

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
Adenosine (IV)	0.4/0.8 mg (400/800 mcg)	0.1 & 0.2 mg (100 mcg & 200 mcg)/kg
Amiodarone (IV infusion)	17.5 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	2/4 J	0.5 & 1.0 J/kg

Bradycardia

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
EPINEPHrine (IV)	0.04 mg (40 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.1 mg (100 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); Min single dose 0.1 mg (100 mcg); May repeat once
Atropine (ETT)	0.14 mg (140 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

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
Normal Saline	17.5 mL (70 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Tranexamic Acid

52 mg over 1 minute

Volume of Tranexamic Acid: 0.5 ml

Sedation, Seizure, & Analgesia

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
MIDAZOLam (IM/IN/ETT)	0.8 mg (800 mcg)	0.2 mg (200 mcg)/kg; Max 10 mg
MIDAZOLam (IV)	0.4 mg (400 mcg)	0.1 mg (100 mcg)/kg; Max 5 mg
Morphine (IV/IM)	0.4 mg (400 mcg)	0.1 mg (100 mcg)/kg
DimenhyDRINATE (IV/IM)	3.5 mg	1 mg/kg
Acetaminophen (PO)	50 mg (0.6 mL)	15 mg/kg (80 mg/mL)

Poisoning & Overdose

Newborn, 3.5 kg (7.7 lbs), Broselow Grey

	Values	Details
Naloxone (IV/IM)		Should not be administered to neonates due to risk of acute withdrawal. Contact CliniCall to discuss options.
Glucagon (IV)	0.35 mg (350 mcg)	Beta-blocker overdose 0.1 mg (100 mcg)/kg IV

Diabetic

Newborn, 3.5 kg (7.72 lbs), Broselow Grey

	Values	Details
Dextrose 10% (D10W)	18 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.1 mg (100 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

3-5 months

***Weight (KG):** 6-7 KG

Weight (Lbs): 13.2- 15.4

Heart Rate (Beats per minute): 109-159

Respiratory Rate (Breaths per minute): 29-56

Blood Pressure (Systolic Range/ Diastolic Range): 75-105/40-68

MAP (mmHg): 52 or higher

Broselow color: Pink

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Equipment

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Formula
Tidal Volume	35 mL	4-8 mL/kg
Laryngoscope	0-1 Straight	-
Un-cuffed ETT	3.5 mm	$(\text{Age}/4)+4$
Cuffed ETT	3.0 mm	$(\text{Age}/4)+3$
ETT Depth	10.5 cm	-
i-Gel SGA	Size 1.5 (blue)	5-12 kg
NPA	14 Fr	-
OPA	50 mm (blue)	-
Suction Cath	6-8 Fr	-

Airway Induction Doses

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
Normal Saline Bolus (IV)	60 mL	10 mL/kg
ketAMINE (IV/IO)	6 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	6 mcg	1 mcg/kg
MIDAZOLam (IV/IO)	0.6 mg (600 mcg)	0.1 mg (100 mcg)/kg PRN

Maintenance doses on [Pediatric Induction Guideline](#) Page

Respiratory & Allergic Reaction

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
Diphenhydramine (IM/IV)	6 mg	1 mg/kg
EPINEPHrine (IM)	0.06 mg (60 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
EPINEPHrine (Neb)	5 mg	5mg in 5ml
EPINEPHrine (IV)	0.03 mg (30 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
Salbutamol (Neb)	2.5 mg	-
Salbutamol (MDI)	---	NOT indicated
Ipratropium (Neb)	250mcg	1/2 nebule
Ipratropium (MDI)	80mcg	20mcg x 4 sprays
Magnesium Sulfate (IV infusion)	300 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
Defibrillation	12/24 J	2 & 4 J/kg
EPINEPHrine (IV)	0.06 mg (60 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	0.6 mg (600 mcg)	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	30 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	6 mg	1 mg/kg
Lidocaine (ETT)	6 mg	2 mg/kg
Sodium Bicarbonate (IV)	6 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	300 mg	50 mg/kg; Max 4 g
Calcium Chloride (IV)	120 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	0.6 mg (600 mcg)	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	1.2 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
Adenosine (IV)	0.6 mg (600 mcg)/1.2 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	30 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	3/6 J	0.5 & 1.0 J/kg

Bradycardia

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
EPINEPHrine (IV)	0.06 mg (60 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.12 mg (120 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	0.24 mg (240 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

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
Normal Saline	30 mL (120 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Tranexamic Acid

90 mg over 1 minute

Volume of Tranexamic Acid: 0.9 ml

Sedation, Seizure, & Analgesia

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
MIDAZOLam (IM/IN/ETT)	1.2 mg	0.2 mg (200 mcg)/kg; Max 10 mg
MIDAZOLam (IV)	0.6 mg (600 mcg)	0.1 mg (100 mcg)/kg; Max 5 mg
Morphine (IV/IM)	0.6 mg (600 mcg)	0.1 mg (100 mcg)/kg
DimenhyDRINATE (IV/IM) ACP & Above	7.5 mg	1.25 mg/kg, Max 5 mg/kg/day or Single dose of 25 mg
Acetaminophen (PO/)	90 mg (1.1 mL)	15 mg/kg (80 mg/mL)

Poisoning & Overdose

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
Naloxone (IV/IM)	0.6 mg (600 mcg)	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)	0.6 mg (600 mcg)	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

3 months, 6 kg (12.3 lbs), Broselow Pink

	Values	Details
Dextrose 10% (D10W)	30 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.18 mg (180 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

6-11 months***Weight (KG):** 8-9 kg**Weight (Lbs):** 17.6-19.8**Heart Rate (Beats per minute):** 95-159**Respiratory Rate (Breaths per minute):** 27-53**Blood Pressure (Systolic Range/ Diastolic Range):** 82-109/ 40-67**MAP (mmHg):** 55-81**Broselow color:** Red

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Management

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Formula
Tidal Volume	50 mL	4-8 mL/kg
Laryngoscope	1 Straight	-
Un-cuffed ETT	3.5-4.0 mm	$(\text{Age}/4)+4$
Cuffed ETT	3.0-3.5 mm	$(\text{Age}/4)+3$
ETT Depth	10.5-12 cm	-
i-Gel SGA	Size 1.5 (blue)	5-12 kg
NPA	14 Fr	-
OPA	50 mm (blue)	-
Suction Cath	6-8 Fr	-

Airway Induction Doses

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
Normal Saline Bolus (IV)	80 mL	10 ml/kg
ketAMINE (IV/IO)	8 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	8 mcg	1.0 mcg/kg
MIDAZOLam (IV/IO)	0.8 mg (800 mcg)	0.1 mg (100 mcg)/kg PRN

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

Respiratory & Allergic Reaction

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
Dexamethasone (PO,IM/IV)	4mg dose = 1ml of (4mg/ml) Dexamethasone Solution administered	0.05mg/kg x 8kg; Supplied 4mg/ml
DiphenhydrAMINE (IM/IV)	8 mg	1 mg/kg
EPINEPHrine (IM)	0.08 mg (80 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
EPINEPHrine (Neb)	5 mg	5mg in 5ml
EPINEPHrine (IV)	0.04 mg (40 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
Salbutamol (Neb)	2.5 mg	1 nebule
Salbutamol (MDI)	---	NOT indicated
Ipratropium (Neb)	250mcg	½ nebule
Ipratropium (MDI)	80mcg	20mcg x 4 sprays
Magnesium Sulfate (IV infusion)	400 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
Defibrillation	16/32 J	2 & 4 J/kg
EPINEPHrine (IV)	0.08 mg (80 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	0.8 mg (800 mcg)	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	40 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	8 mg	1 mg/kg
Lidocaine (ETT)	16 mg	2 mg/kg
Sodium Bicarbonate (IV)	8 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	400 mg	50 mg/kg; Max 4 g
Calcium Chloride (IV)	160 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	0.8 mg (800 mcg)	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	1.6 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
Adenosine (IV)	0.8 (800 mcg)/1.6 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	40 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	4/8 J	0.5 & 1.0 J/kg

Bradycardia

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
EPINEPHrine (IV)	0.08 mg (80 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.16 mg (160 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	0.32 mg (320 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

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
Normal Saline	40 mL (160 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Tranexamic Acid

120 mg over 1 minute

Volume of Tranexamic Acid: 1.2 ml

Sedation, Seizure, & Analgesia

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
MIDAZOLam (IM/IN/ETT)	1.6 mg	0.2 mg (200 mcg)/kg; Max 10 mg
MIDAZOLam (IV/IO)	0.8 mg (800 mcg)	0.1 mg (100 mcg)/kg; Max 5 mg
Morphine (IV/IM)	0.8 mg (800 mcg)	0.1 mg (100 mcg)/kg
DimenhyDRINATE (IV/IM) <i>ACP & Above</i>	10 mg	1.25 mg/kg, Max 5 mg/kg/day or Single dose of 25 mg
Acetaminophen (PO)	120 mg (1.5 mL)	15 mg/kg (80 mg/mL)

Poisoning & Overdose

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details	**Note: Higher doses for naloxone in pediatrics are prescribed as pediatric patients are unlikely to experience withdrawal
Naloxone (IV/IM)	0.8 mg (800 mcg)	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)	0.8 mg (800 mcg)	Beta-blocker overdose 0.1 mg (100 mcg/kg IV	

Diabetic

6 months, 8 kg (17.6 lbs), Broselow Red

	Values	Details
Dextrose 10% (D10W)	40 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.24 mg (240 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

Normal Vital Signs

12-24 months

***Weight (KG):** 10-11kg

Weight (Lbs): 22-24.3

Heart Rate (Beats per minute): 89-149

Respiratory Rate (Breaths per minute): 27-44

Blood Pressure (Systolic Range/ Diastolic Range): 85-107/ 40-67

MAP (mmHg): 55-81

Broselow color: Purple

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Equipment

1 Year, 10 kg (20 lbs), Broselow Purple

	Values	Formula
Tidal Volume	60 mL	4-8 mL/kg
Laryngoscope	1 Straight	-
Un-cuffed ETT	4.0 mm	$(\text{Age}/4)+4$
Cuffed ETT	3.5 mm	$(\text{Age}/4)+3$
ETT Depth	12 cm	-
i-Gel SGA	Size 1.5 (blue)	5-12 kg
NPA	14 Fr	-
OPA	50 mm (blue)	-
Suction Cath	8 Fr	-

Airway Induction Doses

1 Year, 10 kg (20 lbs), Broselow Purple

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

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

Respiratory & Allergic Reaction

1 Year, 10 kg (20 lbs), Broselow Purple

	Values	Details
Dexamethasone (PO/IM/IV)	5 mg dose = 1.25mL Dexamethasone solution administered	$10\text{kg} \times 0.5\text{mg/kg} = 5\text{mg}$ 4mg/mL Dextrose solution =1.25mL
Diphenhydramine (IM/IV)	10 mg	1 mg/kg
EPINEPHrine (IM)	0.1 mg (100 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
EPINEPHrine (Neb)	5 mg	0.5 mg (500 mcg in 5 mL N/S; Max 5 mg
EPINEPHrine (IV)	0.05 mg (50 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
Salbutamol (Neb)	5 mg	2 nebulas
Salbutamol (MDI)	500 mcg	5 x 100 mcg per course; may repeat up to 3 times
Ipratropium (Neb)	250mcg	½ nebule
Ipratropium (MDI)	80 mcg	20mcg x 4 sprays
Magnesium Sulfate (IV infusion)	500 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

1 Year, 10kg (20.05lbs), Broselow Purple

	Values	Details
Defibrillation	20/40 J	2 & 4 J/kg
Epinephrine (IV)	0.1 mg (100 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
Epinephrine (ETT)	1 mg	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	50 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	10 mg	1 mg/kg
Lidocaine (ETT)	20 mg	2 mg/kg
Bicarb (IV)	10 mEq	1 mEq/kg; May repeat
MgSO4 (IV)	500 mg	50 mg/kg; Max 4 g
Calcium (IV)	200 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	1 mg	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	2 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

1 Year, 10 kg (20 lbs), Broselow Purple

	Values	Details
Adenosine (IV)	1/2 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	50 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	5/12 J	0.5 & 1.0 J/kg

Bradycardia

1 Year, 10 kg (20 lbs), Broselow Purple

	Values	Details
EPINEPHrine (IV)	0.1 mg (100 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.2 mg (200 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	0.4 mg (400 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

1 Year, 10 kg (20 lbs), Broselow Purple

	Values	Details
Normal Saline	50 mL (200 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Tranexamic Acid

150 mg over 1 minute

Volume of Tranexamic Acid: 1.5 ml

Sedation, Seizure, & Analgesia

1 Year, 10 kg (20 lbs), Broselow Purple

	<u>Values</u>	<u>Details</u>
<u>KetAMINE</u> (IN)	15 mg	1.5 mg/kg, Max 50 mg *
<u>KetAMINE</u> (IM)	5 mg	0.5 mg (500 mcg)/kg *
<u>KetAMINE</u> (IV/IO)	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)	2 mg	0.2 mg (200 mcg)/kg; Max 10 mg
<u>MIDAZOLam</u> (IV/IO)	1 mg	0.1 mg (100 mcg)/kg; Max 5 mg
<u>FentaNYL</u> (IN)	15 mcg - 20 mcg	1.5-2.0 mcg/kg, Single Dose Max 100 mcg
<u>FentaNYL</u> (IM/IV/IO)	10 mcg - 20 mcg	1-2 mcg/kg, Single Dose Max 50 mcg q 5 min, Max Total 200 mcg
<u>Morphine</u> (IV/IM)	1 mg	0.1 mg (100 mcg)/kg
<u>DimenhyDRINATE</u> (IV/IM) <i>ACP & Above</i>	12.5 mg	1.25 mg/kg, Max 5 mg/kg/day or Single dose of 25 mg
<u>Ondansetron</u> (IV)	1 mg	0.1 mg (100 mcg)/kg
<u>Ibuprofen</u> (PO)	100 mg	10 mg/kg
<u>Acetaminophen</u> (PO)	150 mg (1.9 mL)	15 mg/kg (80 mg/mL)

*See drug monographs for repeat dosages

Poisoning & Overdose

1 Year, 10 kg (20 lbs), Broselow Purple

	Values	Details	<i>**Note: Higher doses for naloxone in pediatrics are prescribed as pediatric patients are unlikely to experience withdrawal</i>
Naloxone (IV/IM)	1 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)	1 mg	Beta-blocker overdose 0.1 mg (100 mcg)/kg IV	

Diabetic

1 Year, 10 kg (20 lbs), Broselow Purple

	Values	Details
Dextrose 10% (D10W)	50 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.3 mg (300 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

Normal Vital Signs

2 years

***Weight (KG):** 12-14kg

Weight (Lbs): 26.5-30.9

Heart Rate (Beats per minute): 89-145

Respiratory Rate (Breaths per minute): 25-39

Blood Pressure (Systolic Range/ Diastolic Range): 87-112/44-74

MAP (mmHg): 57-81

Broselow color: Yellow

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Management

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Formula
Tidal Volume	70 mL	4-8 mL/kg
Laryngoscope	1 Straight	-
Un-cuffed ETT	4 mm	$(\text{Age}/4)+4$
Cuffed ETT	3.5 mm	$(\text{Age}/4)+3$
ETT Depth	12 cm	-
i-Gel SGA	Size 2 (grey)	10-25 kg
NPA	18 Fr	-
OPA	60 mm (black)	-
Suction Cath	8 Fr	-

Airway Induction Doses

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
Normal Saline Bolus (IV)	120 mL	10 ml/kg
ketAMINE (IV/IO)	12 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	12 mcg	1.0 mcg/kg
MIDAZOLam (IV/IO)	1.2 mg	0.1 mg/kg PRN

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

Respiratory & Allergic Reaction

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
<u>Dexamethasone</u>	6mg dose = 1.50 mL Dexamethasone solution administered	12kg x 0.5mg/kg = 6mg 4mg/ml Dexamethasone supplied =1.5mL
<u>Diphenhydramine</u> (IM/IV)	12 mg	1 mg/kg
<u>EPINEPHrine</u> (IM)	0.12 mg (120 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
<u>EPINEPHrine</u> (Neb)	5 mg	0.5 mg (500 mcg) in 5 mL N/S; Max 5 mg
<u>EPINEPHrine</u> (IV)	0.06 mg (60 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
<u>Salbutamol</u> (Neb)	5 mg	-
<u>Salbutamol</u> (MDI)	500 mcg	5 x 100 mcg per course; may repeat up to 3 times
<u>Ipratropium</u> (Neb)	250mcg	½ nebule
<u>Ipratropium</u> (MDI)	80 mcg	20mcg x 4 sprays
<u>Magnesium Sulfate</u> (IV infusion)	600 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
Defibrillation	24/48 J	2 & 4 J/kg
EPINEPHrine (IV)	0.12 mg (120 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	1.2 mg	0.1 mg (100 mcg)/kg; Max 1 0mg
Amiodarone (IV)	60 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	12 mg	1 mg/kg
Lidocaine (ETT)	24 mg	2 mg/kg
Sodium Bicarbonate (IV)	12 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	600 mg	50 mg/kg; Max 4 g
Calcium Chloride (IV)	240 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	1.2 mg	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	1.2 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
Adenosine (IV)	1.2/2.4 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	60 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	6/12 J	0.5 & 1.0 J/kg

Bradycardia

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
EPINEPHrine (IV)	0.12 mg (120 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.24 mg (240 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	0.48 mg (480 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

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
Normal Saline	60 mL (240 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Tranexamic Acid

180 mg over 1 minute

Volume of Tranexamic Acid: 1.8 ml

Sedation, Seizure, & Analgesia

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	<u>Values</u>	<u>Details</u>
KetAMINE (IN)	18 mg	1.5 mg/kg, Max 50 mg*
KetAMINE (IM)	6 mg	0.5 mg (500 mcg)/kg*
KetAMINE (IV/IO)	3.6 mg	0.3 mg (300 mcg)/kg, Single Dose Max 20 mg, Max Total 0.6 mg (600 mcg)/kg*
MIDAZOLam (IM/IN)	2.4 mg	0.2 mg (200 mcg)/kg; Max 10 mg
MIDAZOLam (IV/IO)	1.2 mg	0.1 mg (100 mcg)/kg; Max 5 mg
FentaNYL (IN)	18 mcg - 24 mcg	1.5-2.0 mcg/kg, Single Dose Max 100 mcg
FentaNYL (IM/IV/IO)	12 mcg - 24 mcg	1-2 mcg/kg, Single Dose Max 50 mcg q 5 min, Max Total 200 mcg
Morphine (IV/IM)	1.2 mg	0.1 mg (100 mcg)/kg
DimenhyDRINATE (IV/IM) ACP & Above	15 mg	1.25 mg/kg, Max 5 mg/kg/day or Single dose of 25 mg
Ondansetron (IV)	1.2 mg	0.1 mg (100 mcg)/kg
Ibuprofen (PO)	120 mg	10 mg/kg
Acetaminophen (PO)	180 mg (2.3 mL)	15 mg/kg (80 mg/mL)

*See drug monographs for repeat dosages

Poisoning & Overdose

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
Naloxone (IV/IM)	1.2 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)	1.2 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

2 Years, 12 kg (26.5 lbs), Broselow Yellow

	Values	Details
Dextrose 10% (D10W)	60 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.36 mg (360 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

Normal Vital Signs

3-4 years

***Weight (KG):** 15-18kg

Weight (Lbs): 33-40

Heart Rate (Beats per minute): 85-132

Respiratory Rate (Breaths per minute): 20-33

Blood Pressure (Systolic Range/ Diastolic Range): 87-112/44-70

MAP (mmHg):58-83

Broselow color: White

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Equipment

3 Years, 15 kg (33 lbs), Broselow White

	Values	Formula
Tidal Volume	90 mL	4-8 mL/kg
Laryngoscope	2 Straight/Curved	-
Un-cuffed ETT	5 mm	(Age/4)+4
Cuffed ETT	4.5 mm	(Age/4)+3
ETT Depth	15 cm	-
i-Gel SGA	Size 2 (grey)	10-25 kg
NPA	20 Fr	-
OPA	60 mm (black)	-
Suction Cath	10 Fr	-

Airway Induction Doses

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
Normal Saline Bolus (IV)	150 mL	10 mL/kg
ketAMINE (IV/IO)	15 mg	1 mg/kg
EPINEPHrine (Slow IVP/IO)	15 mcg	1.0 mcg/kg
MIDAZOLam (IV/IO)	1.5 mg	0.1 mg (100 mcg)/kg PRN

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

Respiratory & Allergic Reaction

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
<u>Dexamethasone</u> (PO/IM/IV)	7.5mg dose = 1.88mL Dexamethasone solution administered	15kg x 0.5mg/kg = 7.5 4mg/mL Dexamethasone supplied
<u>DiphenhydrAMINE</u> (IM/IV)	15 mg	1 mg/kg
<u>EPINEPHrine</u> (IM)	0.15 mg (150 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
<u>EPINEPHrine</u> (Neb)	5 mg	0.5 mg (500 mcg)/kg in 5 mL
<u>EPINEPHrine</u> (IV)	0.08 mg (80 mcg)	0.005 mg (5 mcg)/kg; Max 0.3 mg (300 mcg)
<u>Salbutamol</u> (Neb)	5 mg	-
<u>Salbutamol</u> (MDI)	500 mcg	5 x 100 mcg per course; may repeat up to 3 times
<u>Ipratropium</u> (Neb)	250mcg	½ nebule
<u>Ipratropium</u> (MDI)	80 mcg	20mcg x 4 sprays
<u>Magnesium Sulfate</u> (IV infusion)	750 mg	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
Defibrillation	30/60 J	2 & 4 J/kg
EPINEPHrine (IV)	0.15 mg (150 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	1.5 mg	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	75 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	15 mg	1 mg/kg
Lidocaine (ETT)	30 mg	2 mg/kg
Sodium Bicarbonate (IV)	15 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	750 mg	50 mg/kg; Max 4 g
Calcium Chloride (IV)	300 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	1.5 mg	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	1.5 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
Adenosine (IV)	1.5/3.0 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	75 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	8/15 J	0.5 & 1.0 J/kg

Bradycardia

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
EPINEPHrine (IV)	0.15 mg (150 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes
Atropine (IV)	0.3 mg (300 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	0.6 mg (600 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

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
Normal Saline	75 mL (300 mL)	5 mL/kg bolus x4; (Max 20 mL/kg)

Tranexamic Acid

225 mg over 1 minute

Volume of Tranexamic Acid: 2.25 ml

Sedation, Seizure, & Analgesia

3 Years, 15 kg (33 lbs) Broselow White

	<u>Values</u>	<u>Details</u>
<u>KetAMINE</u> (IN)	22.5 mg	1.5 mg/kg, Max 50 mg *
<u>KetAMINE</u> (IM)	7.5 mg	0.5 mg (500 mcg)/kg *
<u>KetAMINE</u> (IV/IO)	4.5 mg	0.3 mg (300 mcg)/kg, Single Dose Max 20 mg, Max Total 0.6 mg (600 mcg)/kg *
<u>MiIDAZOLam</u> (IM/IN)	3.0 mg	0.2 mg (200 mcg)/kg; Max 10 mg
<u>MIDAZOLam</u> (IV/IO)	1.5 mg	0.1 mg (100 mcg)/kg; Max 5 mg
<u>FentaNYL</u> (IN)	22.5 mcg - 30 mcg	1.5-2.0 mcg/kg, Single Dose Max 100 mcg
<u>FentaNYL</u> (IM/IV/IO)	15 mcg - 30 mcg	1-2 mcg/kg, Single Dose Max 50 mcg q 5 min, Max Total 200 mcg
<u>Morphine</u> (IV/IM)	1.5 mg	0.1 mg (100 mcg)/kg
<u>DimenhyDRINATE</u> (IV/IM) <i>ACP & Above</i>	18.75 mg	1.25 mg/kg, Max 5 mg/kg/day or Single dose of 25 mg
<u>Ondansetron</u> (IV)	1.5 mg	0.1 mg (100 mcg)/kg
<u>Ibuprofen</u> (PO)	150 mg	10 mg/kg
<u>Acetaminophen</u> (PO)	225 mg (2.8 mL)	15 mg/kg (80 mg/mL)

*See drug monographs for repeat dosages

Poisoning & Overdose

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
Naloxone (IV/IM)	1.5 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)	1.5 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

3 Years, 15 kg (33 lbs), Broselow White

	Values	Details
Dextrose 10% (D10W)	75 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.45 mg (450 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

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

Normal Vital Signs

7-9 years

***Weight (KG):** 24-29kg

Weight (Lbs): 52.9-63.9

Heart Rate (Beats per minute): 60-120

Respiratory Rate (Breaths per minute): 16-30

Blood Pressure (Systolic Range/ Diastolic Range): 96-118/ 53-76

MAP (mmHg): 70-90

Broselow color: Orange

* Weight based on Broselow Tape

**Vitals based on BC PEWS

Airway Equipment

8 Years, 25 kg (55.1 lbs), Broselow Orange

	Values	Formula
Tidal Volume	150 mL	4-8 mL/kg
Laryngoscope	2-3 Straight/Curved	-
Un-cuffed ETT	6 mm	$(\text{Age}/4)+4$
Cuffed ETT	5.5 m	$(\text{Age}/4)+3$
ETT Depth	18 cm	-
i-Gel SGA	Size 2.5 (white)	25-35 kg
NPA	26 Fr	-
OPA	80 mm (green)	-
Suction Cath	10-12 Fr	-

Airway Induction Doses

8 Years, 25kg (55.12lbs), Broselow Orange

	Values	Details
Normal Saline Bolus (IV)	250ml	10ml/kg
ketAMINE (IV/IO)	25mg	1mg/kg
EPINEPHrine (Slow IVP/IO)	25mcg	1.0mcg/kg
MIDAZOLam (IV/IO)	2.5mg	0.1mg (100 mcg)/kg PRN

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

Respiratory & Allergic Reaction

8 Years, 25 kg (55.1 lbs), Broselow Orange

	Values	Details
<u>Dexamethasone</u> (PO/IM/IV)	12.5mg Dose = 3.13mL Dexamethasone solution administered	25 x 0.5mg/kg=12.5mg 4mg/ml Supplied Dexamethasone
<u>DiphenhydrAMINE</u> (IM/IV)	25 mg	1 mg/kg
<u>EPINEPHrine</u> (IM)	0.25 mg (250 mcg)	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg)
<u>EPINEPHrine</u> (Neb)	5 mg	5mg dose
<u>EPINEPHrine</u> (IV)	0.12 mg (120 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)	250 mcg	½ nebule
<u>Ipratropium</u> (MDI)	80 mcg	20mcg x 4 sprays
<u>Magnesium Sulfate</u> (IV infusion)	1.2 g	50 mg/kg over 20 minutes; Max 2 g

Cardiac Arrest

8 Years, 25 kg (55.1 lbs), Broselow Orange

	Values	Details
Defibrillation	50/100 J	2 & 4 J/kg
EPINEPHrine (IV)	0.25 mg (250 mcg)	0.01 mg (10 mcg)/kg; Max 1 mg
EPINEPHrine (ETT)	2.5 mg	0.1 mg (100 mcg)/kg; Max 10 mg
Amiodarone (IV)	125 mg	5 mg/kg; Max 300 mg
Lidocaine (IV)	25 mg	1 mg/kg
Lidocaine (ETT)	50 mg	2 mg/kg
Sodium Bicarbonate (IV)	25 mEq	1 mEq/kg; May repeat
Magnesium Sulfate (IV)	1.2 g	50 mg/kg; Max 4 g
Calcium Chloride (IV)	500 mg	20 mg/kg; Max 500 mg
Naloxone (IV)	2.5 g	0.1 mg (100 mcg)/kg; Max 4 mg
Naloxone (ETT)	5 mg	0.2 mg (200 mcg)/kg; Max 8 mg

Tachycardia

8 Years, 25 kg (55.1 lbs), Broselow Orange

	Values	Details
Adenosine (IV)	2.5/5.0 mg	0.1 & 0.2 mg (100 & 200 mcg)/kg
Amiodarone (IV infusion)	125 mg	5 mg/kg over 20 minutes; May repeat x2; Max 300 mg
Cardioversion	12/25 J	0.5 & 1.0 J/kg

Bradycardia

8 Years, 25 kg (55.1 lbs), Broselow Orange

	Values	Details
EPINEPHrine (IV)	0.25 mg	0.01 mg (10 mcg)/kg; Max 0.5 mg (500 mcg); q 3-5 minutes.
Atropine (IV)	0.5 mg (500 mcg)	0.02 mg (20 mcg)/kg; Max single dose 0.6 mg (600 mcg); May repeat once
Atropine (ETT)	1.0 mg	0.04 mg (40 mcg)/kg; Max single dose 1.2 mg; Max total dose 6 mg; May repeat x 5 in 3-5 minutes

Fluid Resuscitation

8 Years, 25 kg (55.1 lbs), Broselow Orange

	Values	Details
Normal Saline	125 mL (500 mL)	5 mL/kg bolus x4; Max 20 mL/kg

Tranexamic Acid

375 mg over 1 minute

Volume of Tranexamic Acid: 3.75 ml

Sedation, Seizure, & Analgesia

8 Years, 25 kg (55.1 lbs), Broselow Orange

	<u>Values</u>	<u>Details</u>
<u>KetAMINE</u> (IN)	37.5 mg	1.5 mg/kg, Max 50 mg *
<u>KetAMINE</u> (IM)	12.5 mg	0.5 mg (500 mcg)/kg *
<u>KetAMINE</u> (IV/IO)	7.5 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)	5.0 mg	0.2 mg (200 mcg)/kg; Max 10 mg
<u>MIDAZOLam</u> (IV/IO)	2.5 mg	0.1 mg (100 mcg)/kg; Max 5 mg
<u>FentaNYL</u> (IN)	37.5 mcg - 50 mcg	1.5-2 mcg/kg, Single Dose Max 100 mcg
<u>FentaNYL</u> (IM/IV/IO)	25 mcg - 50 mcg	1-2 mcg/kg, Single Dose Max 50 mcg q 5 min, Max Total 200 mcg
<u>Morphine</u> (IV/IM)	2.5 mg	0.1 mg (100 mcg)/kg
<u>DimenhyDRINATE</u> (IV/IM) ACP & Above	25 mg	1.25 mg/kg, Max single dose of 25 mg or Max 5 mg/kg/day
<u>Ondansetron</u> (IV)	2.5 mg	0.1 mg (100 mcg)/kg
<u>Ibuprofen</u> (PO)	250 mg	10 mg/kg
<u>Acetaminophen</u> (PO)	375 mg (4.7 mL)	15 mg/kg (80 mg/mL)

*See drug monographs for repeat dosages

Poisoning & Overdose

8 Years, 25 kg (55.1 lbs), Broselow Orange

	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)	2.5 mg	Beta-blocker overdose 0.1 mg (100 mcg)/kg IV

Diabetic

8 Years, 25 kg (55.1 lbs), Broselow Orange

	Values	Details
Dextrose 10% (D10W)	125 mL	5 mL/kg; May be repeated
Glucagon (SC/IM)	0.75 mg (750 mcg)	0.03 mg (30 mcg)/kg; Max 1 mg

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 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

