

Pediatric Cardioversion

Energy Selection Physio-Control LifePak 12 and LifePak 15

COLOR		First	Second/Third
Gray	3kg	3 J	6 J
	4kg	4 J	8 J
	5kg	5 J	10 J
Pink		7 J	15 J
Red		9 J	20 J
Purple		10 J	20 J
Yellow		15 J	30 J
White		15 J	50 J
Blue		20 J	50 J
Orange		30 J	50 J
Green		30 J	70 J



Pediatric Defibrillation

Energy Selection Physio-Control LifePak 12 and LifePak 15

COLOR		First	Second/Third
Gray	3kg	6 J	12 J
	4kg	8 J	15 J
	5kg	10 J	20 J
Pink		15 J	30 J
Red		20 J	50 J
Purple		20 J	50 J
Yellow		30 J	50 J
White		30 J	70 J
Blue		50 J	100 J
Orange		50 J	100 J
Green		70 J	150 J



Pediatric Weight Conversion

Always document weight in kg

COLOR	Kilograms	Pounds
Gray	3 kg	6 lbs
	4 kg	9 lbs
	5 kg	11 lbs
Pink	6 – 7 kg	13 – 15 lbs
Red	8 – 9 kg	17 – 20 lbs
Purple	10 – 11 kg	22 – 25 lbs
Yellow	12 – 14 kg	27 – 32 lbs
White	15 – 18 kg	34 – 41 lbs
Blue	19 – 23 kg	42 – 52 lbs
Orange	24 – 29 kg	54 – 65 lbs
Green	30 – 36 kg	37 – 80 lbs



Adenosine

Indication: SVT
Concentration = 3 mg/ml

COLOR		Dose (mg)	Give (ml)	Dose (mg)	Give (ml)
Gray	3kg	0.3 mg	0.1 ml	0.6 mg	0.2 ml
	4kg	0.4 mg	0.13 ml	0.8 mg	0.26 ml
	5kg	0.5 mg	0.17 ml	1.0 mg	0.34 ml
Pink		0.65 mg	0.22 ml	1.3 mg	0.44 ml
Red		0.85 mg	0.28 ml	1.7 mg	0.57 ml
Purple		1 mg	0.34 ml	2mg	0.66 ml
Yellow		1.3 mg	0.44 ml	2.6 mg	0.86 ml
White		1.7 mg	0.57 ml	3.4 mg	1.14 ml
Blue		2.1 mg	0.7 ml	4.2 mg	1.4 ml
Orange		2.7 mg	0.9 ml	5.4 mg	1.8 ml
Green		3.3 mg	1.1 ml	6 mg	2 ml

Note: Immediately follow with a rapid 10-20ml NS bolus.



Albuterol

Indication: Respiratory Distress
Concentration = 2.5 mg/3 ml

COLOR	Doses (mg)	Give (ml)
Gray	3kg 2.5 mg	3ml
	4kg 2.5 mg	3ml
	5kg 2.5 mg	3ml
Pink	2.5 mg	3ml
Red	2.5 mg	3ml
Purple	2.5 mg	3ml
Yellow	2.5 mg	3ml
White	2.5 mg	3ml
Blue	2.5 mg	3ml
Orange	2.5 mg	3ml
Green	2.5 mg	3ml



Albuterol MDI with Spacer

Indication: Respiratory Distress

Max Dose = Up to 8 puffs in 20 minutes

COLOR	Dose (every 5 min)	Spacer Color
Gray	3kg	2 puffs
	4kg	2 puffs
	5kg	2 puffs
Pink	2 puffs	Orange
Red	2 puffs	Yellow
Purple	2 puffs	Yellow
Yellow	2 puffs	Yellow
White	2 puffs	Blue
Blue	2 puffs	Blue
Orange	2 puffs	Blue
Green	2 puffs	Blue



Atropine

Indication: Organophosphate Exposure/Poisoning
Concentration = 0.1 mg/ml

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.5 mg	5 ml
	4kg	0.5 mg	5 ml
	5kg	0.5 mg	5 ml
Pink		0.5 mg	5 ml
Red		0.5 mg	5 ml
Purple		2 mg	20 ml
Yellow		2 mg	20 ml
White		2 mg	20 ml
Blue		2 mg	20 ml
Orange		2 mg	20 ml
Green		2 mg	20 ml



Calcium Chloride

Indication: Arrhythmia

Concentration = 1 g/10 ml



* ALL COLORS REQUIRE BASE HOSPITAL ORDER

COLOR	Doses (mg)	Give (ml)
Gray	3kg	60 mg*
	4kg	80 mg*
	5kg	100 mg*
Pink	120 mg*	1.2 ml*
Red	160 mg*	1.6 ml*
Purple	200 mg*	2 ml*
Yellow	240 mg*	2.4 ml*
White	300 mg*	3 ml*
Blue	380 mg*	3.8 ml*
Orange	480 mg*	4.8 ml*
Green	600 mg*	6 ml*



Dopamine

Indication: Arrhythmia
Concentration = 800 mcg/ml

COLOR	Doses (mg)	Give (ml)
Gray	3kg	
	4kg	
	5kg	
Pink		
Red		
Purple		Contact Base Hospital for dosing
Yellow		
White		
Blue		
Orange		
Green		



Dextrose 10%

Indication: Hypoglycemia

Concentration = 0.1 g/ml

COLOR	Doses (g)	Give (ml)
Gray	3kg	1.5 g
	4kg	2 g
	5kg	2.5 g
Pink	3.2 g	32 ml
Red	4.2 g	42 ml
Purple	5.2 g	52 ml
Yellow	6.5 g	65 ml
White	8.2 g	82 ml
Blue	10 g	100 ml*
Orange	10 g	100 ml*
Green	10 g	100 ml*

Note: *A repeat dose equal to the initial dose and be required based on repeat BGL.



Diphenhydramine

Indication: Allergic Reaction

Concentration = 50 mg/ml



***GRAY COLOR REQUIRES BASE HOSPITAL ORDER**

COLOR	Doses (mg)	Give (ml)
Gray	3kg	3 mg*
	4kg	4 mg*
	5kg	5 mg*
Pink	6.5 mg	0.13 ml
Red	8.5 mg	0.17 ml
Purple	10 mg	0.2 ml
Yellow	13 mg	0.26 ml
White	17 mg	0.34 ml
Blue	21 mg	0.42 ml
Orange	27 mg	0.54 ml
Green	33 mg	0.66 ml

Note: Utilize Epinephrine 1: 1,000 IM first if patient is in anaphylaxis.

Consider giving one-half dose Diphenhydramine if patient has taken or been given full dose within one hour.



Epinephrine 1:1,000 IM

Indication: Anaphylaxis and Severe Asthma

NEVER GIVE EPINEPHRINE 1:1,000 VIA IV ROUTE

Concentration = 1 mg/ml

Maximum Dose = 0.3mg IM

COLOR	Doses (mg)	Give (ml)
Gray	3kg	0.03 mg
	4kg	0.04 mg
	5kg	0.05 mg
Pink	0.06 mg	0.06 ml
Red	0.08 mg	0.08 ml
Purple	0.1 mg	0.1 ml
Yellow	0.13 mg	0.13 ml
White	0.15 mg	0.15 ml
Blue	0.15 mg	0.15 ml
Orange	0.15 mg	0.15 ml
Green	0.3 mg	0.3 ml

Note: Subcutaneous administration of Epinephrine 1:1,000 is no longer authorized.



Epinephrine 1:1,000 NEBULIZED

Indication: Stridor
Concentration = 1 mg/ml
Maximum Dose = 5 mg Nebulized

COLOR	Doses (mg)	Give (ml)
Gray	3kg	1.5 mg
	4kg	2 mg
	5kg	2.5 mg
Pink	3 mg	3 ml
Red	4 mg	4 ml
Purple	5 mg	5 ml
Yellow	5 mg	5 ml
White	5 mg	5 ml
Blue	5 mg	5 ml
Orange	5 mg	5 ml
Green	5 mg	5 ml



Epinephrine 1:10,000

Indication: Cardiac Arrest

Concentration = 0.1 mg/ml

COLOR	Doses (mg)	Give (ml)
Gray	3kg	0.03 mg
	4kg	0.04 mg
	5kg	0.05 mg
Pink	0.065 mg	0.65 ml**
Red	0.085 mg	0.85 ml**
Purple	0.1 mg	1 ml
Yellow	0.13 mg	1.3 ml
White	0.17 mg	1.7 ml
Blue	0.21 mg	2.1 ml
Orange	0.27 mg	2.7 ml
Green	0.33 mg	3.3 ml

Note: Epinephrine 1:10,000 is also used in anaphylactic shock if IM treatment is ineffective.

** In anaphylactic shock:

- Patients under 10kg receive same dose as used for cardiac arrest
- For patients \geq 10kg, administer in 0.1mg increments (1ml).



Fentanyl (IM/IV/IO)

Indication: Pain Management

Concentration = 50 mcg/ml

IV/IO – May repeat 5 minutes apart to max dose of 3mcg/kg

IM – May repeat once after 10 minutes to max of 3mcg/kg



***GRAY AND PINK COLORS REQUIRE BASE HOSPITAL ORDER**

COLOR		Doses (mcg)	Give (ml)
Gray	3kg	3 mcg*	0.06 ml*
	4kg	4 mcg*	0.08 ml*
	5kg	5 mcg*	0.1 ml*
Pink		6 mcg*	0.12 ml*
Red		8.5 mcg	0.17 ml
Purple		10 mcg	0.2 ml
Yellow		13 mcg	0.26 ml
White		17 mcg	0.34 ml
Blue		20 mcg	0.4 ml
Orange		25 mcg	0.5 ml
Green		25 mcg	0.5 ml



Fentanyl (IN)

Indication: Pain Management

Concentration = 50 mcg/ml

Single dose only – Repeat doses require Base Hospital order



***GRAY AND PINK COLORS REQUIRE BASE HOSPITAL ORDER**

COLOR	Doses (mcg)	Give (ml)
Gray	3kg	6 mcg*
	4kg	8 mcg*
	5kg	10 mcg*
Pink	12 mcg*	0.24 ml*
Red	17 mcg	0.34 ml
Purple	20 mcg	0.4 ml
Yellow	26 mcg	0.52 ml**
White	34 mcg	0.68 ml**
Blue	40 mcg	0.8 ml**
Orange	50 mcg	1 ml**
Green	50 mcg	1 ml**

Note: **Doses greater than 25 mcg (0.5ml) can be titrated to effect beginning with 25 mcg increments.



Fluid Bolus

Indication: Shock/Hypotension

Maximum single bolus = 500ml

COLOR	Give (ml)
Gray	3kg 30 ml
	4kg 40 ml
	5kg 50 ml
Pink	130 ml
Red	170 ml
Purple	210 ml
Yellow	260 ml
White	325 ml
Blue	420 ml
Orange	500 ml
Green	500 ml



Glucagon

Indication: Hypoglycemia
Concentration = 1 mg/ml

COLOR	Doses (mg)	Give (ml)
Gray	3kg	0.5 mg
	4kg	0.5 mg
	5kg	0.05 g
Pink	0.5 mg	0.5 ml
Red	0.5 mg	0.5 ml
Purple	0.5 mg	0.5 ml
Yellow	0.5 mg	0.5 ml
White	0.5 mg	0.5ml
Blue	1 mg	1 ml
Orange	1 mg	1 ml
Green	1 mg	1 ml



Levalbuterol

Indication: Respiratory Distress

Concentration = varies

COLOR		Doses (mg)	Give (ml)
Gray	3kg	1.25 mg	Verify concentration
	4kg	1.25 mg	Verify concentration
	5kg	1.25 mg	Verify concentration
Pink		1.25 mg	Verify concentration
Red		1.25 mg	Verify concentration
Purple		1.25 mg	Verify concentration
Yellow		1.25 mg	Verify concentration
White		1.25 mg	Verify concentration
Blue		1.25 mg	Verify concentration
Orange		1.25 mg	Verify concentration
Green		1.25 mg	Verify concentration



Lidocaine for IO

Indication: IO Anesthetic
(Not for patients in cardiac arrest)
Concentration = 2% (100mg/5ml)

COLOR	Doses (mg)	Give (ml)
Gray	3kg	1.5 mg
	4kg	2 mg
	5kg	2.5 mg
Pink	3.2 mg	0.16 ml
Red	4.2 mg	0.21 ml
Purple	5 mg	0.25 ml
Yellow	6.5 mg	0.32 ml
White	8.5 mg	0.42ml
Blue	10 mg	0.5 ml
Orange	14 mg	0.7 ml
Green	16.5 mg	0.82 ml



Lidocaine

Indication: V-Fib
Concentration = 20 mg/ml
May repeat once after 15 minutes

COLOR	Doses (mg)	Give (ml)
Gray	3kg 3 mg	0.15 ml
	4kg 4 mg	0.2 ml
	5kg 5 mg	0.25 ml
Pink	6.5 mg	0.33 ml
Red	8.5 mg	0.43 ml
Purple	10 mg	0.5 ml
Yellow	13 mg	0.65 ml
White	17 mg	0.85 ml
Blue	20 mg	1 ml
Orange	28 mg	1.4 ml
Green	33 mg	1.7 ml



Midazolam (IV/IO)

Indication: Seizure*/Sedation for Cardioversion

Concentration = 5 mg/ml

IV/IO – May repeat once

COLOR	Doses (mg)	Give (ml)
Gray	3kg	0.3 mg
	4kg	0.4 mg
	5kg	0.5 mg
Pink	0.7 mg	0.14 ml
Red	0.9 mg	0.19 ml
Purple	1.1 mg	0.22 ml
Yellow	1.4 mg	0.28 ml
White	1.8 mg	0.36 ml
Blue	2.2 mg	0.44 ml
Orange	2.8 mg	0.56 ml
Green	3.6 mg	0.72 ml

Note: Titrate dosage in 0.5 – 1mg increments to desired effect (seizure cessation) or 5mg maximum dose.

*If IV/IO is already established. First-line administration for active seizure should be IM/IN.



Midazolam (IN/IM)

Indication: Seizure*/Sedation for Cardioversion

Concentration = 5 mg/ml

IM/IN – Single dose only

COLOR	Doses (mg)	Give (ml)
Gray	3kg 0.6 mg	0.12 ml
	4kg 0.8 mg	0.16 ml
	5kg 1 mg	0.2 ml
Pink	1.4 mg	0.28 ml
Red	1.8 mg	0.36 ml
Purple	2.2 mg	0.44 ml
Yellow	2.8 mg	0.56 ml
White	3.6 mg	0.72 ml
Blue	4.4 mg	0.88 ml
Orange	5.6 mg	1.12 ml
Green	7.2 mg	1.44 ml

*First-line administration for active seizure should be IM/IN.



Naloxone

Indication: Respiratory Depression

Concentration = 1 mg/ml

Maximum single dose = 2mg

COLOR	Doses (mg)	Give (ml)
Gray	3kg	0.3 mg
	4kg	0.4 mg
	5kg	0.5 mg
Pink	0.64 mg	0.64 ml
Red	0.85 mg	0.85 ml
Purple	1 mg	1ml
Yellow	1.3 mg	1.3 ml
White	1.6 mg	1.6 ml
Blue	2 mg	2 ml
Orange	2 mg	2 ml
Green	2 mg	2 ml

Note: Naloxone is available in multiple concentrations. This chart is intended for a 1mg/ml concentration.



Nebulized Saline

Indication: Respiratory distress with barking cough
May repeat as necessary

COLOR	Give (ml)
Gray	3kg
	4kg
	5kg
Pink	3 ml
Red	3 ml
Purple	3 ml
Yellow	3 ml
White	3 ml
Blue	3 ml
Orange	3 ml
Green	3 ml

Note: Do not use for patients presenting with stridor.



Ondansetron ODT

Indication: Nausea/Vomiting

Concentration = 4mg tablet

Maximum single dose = 4mg

COLOR	Doses (mg)	Give (ml)
Gray	3kg	NOT INDICATED
	4kg	
	5kg	
Pink		
Red		
Purple	2mg	½ tablet
Yellow	2mg	½ tablet
White	2 mg	½ tablet
Blue	4 mg	1 tablet
Orange	4 mg	1 tablet
Green	4 mg	1 tablet

Note: Ondansetron is not indicated for motion sickness.



Ondansetron

Indication: Nausea/vomiting

Concentration = 2 mg/ml

Maximum single dose = 4mg



*GRAY, PINK, AND RED COLORS REQUIRE BASE HOSPITAL ORDER

COLOR	Doses (mg)	Give (ml)
Gray	3kg	3-mEq*
	4kg	4-mEq*
	5kg	5-mEq*
Pink	6-mEq*	6-ml*
Red	8-mEq*	8-ml*
Purple	2 mg	1 ml
Yellow	2 mg	1 ml
White	2 mg	1 ml
Blue	4 mg	2 ml
Orange	4 mg	2 ml
Green	4 mg	2 ml

Note: Ondansetron is not indicated for motion sickness. May be repeated x1 for patients $\geq 40\text{kg}$.



Sodium Bicarbonate

Indication: Arrhythmia/Crush Injury

Concentration = 50 mEq/50 ml



*** ALL COLORS REQUIRE BASE HOSPITAL ORDER**

COLOR	Doses (mg)	Give (ml)
Gray	3kg	3-mEq*
	4kg	4-mEq*
	5kg	5-mEq*
Pink	6-mEq*	6-ml*
Red	8-mEq*	8-ml*
Purple	10-mEq*	10-ml*
Yellow	12-mEq*	12-ml*
White	15-mEq*	15-ml*
Blue	19-mEq*	19-ml*
Orange	24-mEq*	24-ml*
Green	30-mEq*	30-ml*

