

# PEDIATRIC DOSING CHARTS

The pediatric dosing charts help paramedics quickly and accurately determine medication dosages during pediatric calls. The dosing information is presented in millilitres (mL) in the left-hand column, aiming to reduce cognitive load during these often stressful and challenging situations.

- Medications are rounded to volumes that can be drawn using 1 mL, 3 mL, or 10 mL syringes, depending on the required volume.
- Charts are weight-based, with age as a reference. For the most accurate dosing, always ask the parent/guardian for the child's weight.
- If age and weight don't match the chart, use weight as the priority.
- Weights used are based on the median weight in each range.
- There are three charts for patients 12 years and older, covering different weight ranges.
- Color coding aligns with standard pediatric tapes and charts.

## Important Notes for Use

- Joule settings are rounded to match settings on Zoll monitors.
- The right-hand column shows standard concentrations.
- If your service carries different concentrations or substitutions (e.g. during shortages), paramedics must calculate their own dosing.
- Asterisks (\*) next to the milligram (mg) dosage indicate a maximum dose for that patient's range. Do not exceed this dosage without base hospital physician (BHP) approval.

## Medications Requiring Base Hospital Physician (BHP) Authorization

- Some medications need BHP approval before administration, including: atropine, calcium gluconate, diphenhydramine, ketamine and narcotics.
- Paramedics should know which medications are authorized under their medical directives and which require a patch order.

## Medication Administration

- Confirm the concentration is correct before administering any medication.
- Cross-check all medications with your partner before administration.

Not all medications carried by paramedics are listed in these charts. For new medications or different concentrations, contact us to suggest updates: [paramedic.portal@sunnybrook.ca](mailto:paramedic.portal@sunnybrook.ca).

## Quick Reference Card

Chart Colour	Weight Ranges	Age Range	Weight Used to Calculate Dose
light grey	2.5 kg	pre-term	2.5 kg
grey	3 – 5 kg	full term < 3 months	4 kg
pink	6 – 7 kg	3 to 5 months	6 kg
red	8 – 9 kg	6 to 11 months	8.5 kg
purple	10 – 11 kg	12 to 23 months	10 kg
yellow	12 – 14 kg	2 years	12 kg
white	15 – 18 kg	3 to 4 years	16 kg
blue	19 – 23 kg	5 to 6 years	20 kg
orange	24 – 29 kg	7 to 9 years	27 kg
green	30 – 36 kg	10 to 12 years	33 kg
teal	37 – 42 kg	adolescent	40 kg
teal	43 – 47 kg	adolescent	45 kg
teal	48 – 52 kg	adolescent	50 kg

<b>Weight: 2.5 kg</b>		<b>Age range: pre-term/small newborn</b>			
Normal vital sign range	HR: 100 – 205	RR: 30 – 53	BP: N/A		
Cardioversion	N/A	N/A	N/A		
Defibrillation	N/A	N/A			
ETT	2.5 / 3	<b>Suction Catheter</b>			
Laryngoscope Blade	1	ETT	5 – 6 Fr		
i-gel	1	i-gel	N/A		
<b>Volume mL</b>	<b>Medication</b>	<b>Total Dose</b>	<b>Dose</b>	<b>Drug Supplied Concentration</b>	
<b>CARDIAC/RHYTHM</b>					
N/A	Adenosine <b>IV fast push</b>	1st dose	N/A	0.1 mg/kg	6 mg/2 mL
N/A		2nd dose	N/A	0.2 mg/kg	6 mg/2 mL
N/A	Amiodarone <b>IV</b>	N/A	5 mg/kg	150 mg/3 mL	
0.5 mL	Atropine <b>IV</b> bradycardia, toxins	0.05 mg	0.02 mg/kg	1 mg/10 mL	
0.25 mL		0.05 mg	0.02 mg/kg	0.2 mg/mL	
0.13 mL		0.05 mg	0.02 mg/kg	0.4 mg/mL	
0.08 mL		0.05 mg	0.02 mg/kg	0.6 mg/mL	
N/A	Calcium Gluconate 10% <b>IV</b>	N/A	50 mg/kg	1,000 mg/10 mL	
0.25 mL	EPINEPHrine <b>IV/IO</b> 1:10,000	0.025 mg	0.01 mg/kg	1 mg/10 mL	
2.5 mL	EPINEPHrine <b>ETT</b> 1:10,000	0.25 mg	0.1 mg/kg	1 mg/10 mL	
<b>SYMPTOM RELIEF</b>					
5 mL	Dextrose 10% <b>IV</b>	0.5 g	0.2 g/kg	100 mg/mL	
N/A	Dextrose 50% <b>IV</b>	N/A	0.5 g/kg	500 mg/mL	
N/A	Dexamethasone <b>PO/IM/IV</b>	N/A	0.5 mg/kg	10 mg/mL	
0.05 mL	DiphenhydrAMINE <b>IV/IM</b>	2.5 mg	1 mg/kg	50 mg/mL	
0.03 mL	EPINEPHrine <b>IM</b> 1:1,000	0.03 mg	0.01 mg/kg	1 mg/mL	
50 mL	Normal saline bolus <b>IV</b>	50 mL	20 mL/kg	N/A	
25 mL	Normal saline ROSC <b>IV</b>	25 mL	10 mL/kg	N/A	
<b>PAIN AND SEDATION</b>					
0.05 mL	FentaNYL <b>IV/IN</b>	2.5 mcg	1 mcg/kg	100 mcg/2 mL	
0.01 mL	Ketamine <b>IV</b>	0.625 mg	0.25 mg/kg	100 mg/2 mL	
0.05 mL	Ketamine <b>IN</b>	2.5 mg	1 mg/kg	100 mg/2 mL	
0.1 mL	Hydrocortisone <b>IM/IV</b>	5 mg	2 mg/kg	100 mg/2 mL	
0.04 mL		5 mg	2 mg/kg	250 mg/2 mL	
0.05 mL	Midazolam seizure <b>IV/IO</b>	0.25 mg	0.1 mg/kg	10 mg/2 mL	
0.1 mL	Midazolam seizure <b>IM/IN/Buccal</b>	0.5 mg	0.2 mg/kg	10 mg/2 mL	
0.01 – 0.02 mL	Morphine analgesia <b>IV/SC</b>	0.125 – 0.20 mg	0.05 – 0.1 mg/kg	10 mg/mL	
0.4 mL	Naloxone <b>IV/IM</b>	0.4 mg	0.4 mg*	2 mg/2 mL	
<b>Weight: 2.5 kg</b>		<b>Age range: pre-term/small newborn</b>			

\* maximum dosage

**Weight: 3 – 5 kg** **Age range: full term (> 24 hours to < 3 months)**

Normal vital sign range	HR: 100 – 205	RR: 30 – 50	BP: >72/38
Cardioversion	5 J	10 J	10 J
Defibrillation	10 J	20 J	20 J
ETT	3	<b>Suction Catheter</b>	
Laryngoscope blade	1	ETT	6 Fr
i-gel	1	i-gel	N/A

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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**CARDIAC/RHYTHM**

0.15 mL	Adenosine <b>IV fast push</b>	1st dose	0.4 mg	0.1 mg/kg	6 mg/2 mL
0.25 mL		2nd dose	0.8 mg	0.2 mg/kg	6 mg/2 mL
0.4 mL	Amiodarone <b>IV</b>		20 mg	5 mg/kg	150 mg/3 mL
1 mL	Atropine <b>IV</b> bradycardia, toxins		0.1 mg	0.02 mg/kg	1 mg/10 mL
0.5 mL			0.1 mg	0.02 mg/kg	0.2 mg/mL
0.25 mL			0.1 mg	0.02 mg/kg	0.4 mg/mL
0.16 mL			0.1 mg	0.02 mg/kg	0.6 mg/mL
2 mL	Calcium Gluconate 10% <b>IV</b>		200 mg	50 mg/kg	1,000 mg/10 mL
0.4 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.04 mg	0.01 mg/kg	1 mg/10 mL
0.4 mL	EPINEPHrine <b>ETT</b> 1:1,000		0.4 mg	0.1 mg/kg	1 mg/mL

**SYMPTOM RELIEF**

8 mL	Dextrose 10% <b>IV</b>		0.8 g	0.2 g/kg	100 mg/mL
N/A	Dextrose 50% <b>IV</b>		N/A	0.5 g/kg	500 mg/mL
0.2 mL	Dexamethasone <b>PO/IM/IV</b>		2 mg	0.5 mg/kg	10 mg/mL
0.1 mL	DiphenhydrAMINE <b>IV/IM</b>		4 mg	1 mg/kg	50 mg/mL
0.04 mL	EPINEPHrine <b>IM</b> 1:1,000		0.04 mg	0.01 mg/kg	1 mg/mL
80 mL	Normal saline bolus <b>IV</b>		80 mL	20 mL/kg	N/A
40 mL	Normal saline ROSC <b>IV</b>		40 mL	10 mL/kg	N/A

**PAIN AND SEDATION**

0.08 mL	FentaNYL <b>IV/IN</b>		4 mcg	1 mcg/kg	100 mcg/2 mL
0.02 mL	Ketamine <b>IV</b>		1 mg	0.25 mg/kg	100 mg/2 mL
0.08 mL	Ketamine <b>IN</b>		4 mg	1 mg/kg	100 mg/2 mL
0.16 mL	Hydrocortisone <b>IM/IV</b>		8 mg	2 mg/kg	100 mg/2 mL
0.06 mL			8 mg	2 mg/kg	250 mg/2 mL
0.08 mL	Midazolam seizure <b>IV/IO</b>		0.4 mg	0.1 mg/kg	10 mg/2 mL
0.16 mL	Midazolam seizure <b>IM/IN/Buccal</b>		0.8 mg	0.2 mg/kg	10 mg/2 mL
0.02 – 0.04 mL	Morphine analgesia <b>IV/SC</b>		0.2 – 0.4 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

**Weight: 3 – 5 kg** **Age range: full term (> 24 hours to < 3 months)**

\* maximum dosage

<b>Weight: 6 – 7 kg</b>		<b>Age range: 3 to 5 months</b>	
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Normal vital sign range	HR: 100 – 205	RR: 30 – 53	BP: > 72/38
Cardioversion	7 J	15 J	15 J
Defibrillation	15 J	30 J	30 J
ETT	3	<b>Suction Catheter</b>	
Laryngoscope blade	1	ETT	6 Fr
i-gel	1.5	i-gel	10 Fr

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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<b>CARDIAC/RHYTHM</b>				
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0.2 mL	Adenosine <b>IV fast push</b>	1st dose	0.6 mg	0.1 mg/kg	6 mg/2 mL
0.4 mL		2nd dose	1.2 mg	0.2 mg/kg	6 mg/2 mL
0.6 mL	Amiodarone <b>IV</b>		30 mg	5 mg/kg	150 mg/3 mL
1.2 mL	Atropine <b>IV</b> bradycardia, toxins		0.12 mg	0.02 mg/kg	1 mg/10 mL
0.6 mL			0.12 mg	0.02 mg/kg	0.2 mg/mL
0.3 mL			0.12 mg	0.02 mg/kg	0.4 mg/mL
0.2 mL			0.12 mg	0.02 mg/kg	0.6 mg/mL
3 mL	Calcium Gluconate 10% <b>IV</b>		300 mg	50 mg/kg	1,000 mg/10 mL
0.6 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.06 mg	0.01 mg/kg	1 mg/10 mL
0.6 mL	EPINEPHrine <b>ETT</b> 1:10,000		0.6 mg	0.1 mg/kg	1 mg/mL

<b>SYMPTOM RELIEF</b>				
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12 mL	Dextrose 10% <b>IV</b>		1.2 g	0.2 g/kg	100 mg/mL
N/A	Dextrose 50% <b>IV</b>		N/A	0.5 g/kg	500 mg/mL
0.3 mL	Dexamethasone <b>PO/IM/IV</b>		3 mg	0.5 mg/kg	10 mg/mL
0.12 mL	DiphenhydrAMINE <b>IV/IM</b>		6 mg	1 mg/kg	50 mg/mL
0.06 mL	EPINEPHrine <b>IM</b> 1:1,000		0.06 mg	0.01 mg/kg	1 mg/mL
120 mL	Normal saline bolus <b>IV</b>		120 mL	20 mL/kg	N/A
60 mL	Normal saline ROSC <b>IV</b>		60 mL	10 mL/kg	N/A

<b>PAIN AND SEDATION</b>				
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0.12 mL	FentaNYL <b>IV/IN</b>		6 mcg	1 mcg/kg	100 mcg/2 mL
0.03 mL	Ketamine <b>IV</b>		1.5 mg	0.25 mg/kg	100 mg/2 mL
0.12 mL	Ketamine <b>IN</b>		6 mg	1 mg/kg	100 mg/2 mL
0.24 mL	Hydrocortisone <b>IM/IV</b>		12 mg	2 mg/kg	100 mg/2 mL
0.01 mL			12 mg	2 mg/kg	250 mg/2 mL
0.12 mL	Midazolam seizure <b>IV/IO</b>		0.6 mg	0.1 mg/kg	10 mg/2 mL
0.24 mL	Midazolam seizure <b>IM/IN/Buccal</b>		1.2 mg	0.2 mg/kg	10 mg/2 mL
0.03 – 0.06 mL	Morphine analgesia <b>IV/SC</b>		0.3 – 0.6 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

<b>Weight: 6 – 7 kg</b>		<b>Age range: 3 to 5 months</b>		
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\* maximum dosage

**Weight: 8 – 9 kg** **Age range: 6 to 11 months**

Normal vital sign range	HR: 100 – 205	RR: 30 – 50	BP: 72 – 104	37 – 56
Cardioversion	10 J	20 J	20 J	
Defibrillation	20 J	40 J	40 J	
ETT	3	<b>Suction Catheter</b>		
Laryngoscope Blade	1	ETT	6 Fr	
i-gel	1.5	i-gel	10 Fr	

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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**CARDIAC/RHYTHM**

0.28 mL	Adenosine <b>IV fast push</b>	1st dose	0.85 mg	0.1 mg/kg	6 mg/2 mL
0.56 mL		2nd dose	1.7 mg	0.2 mg/kg	6 mg/2 mL
0.85 mL	Amiodarone <b>IV</b>		42.5 mg	5 mg/kg	150 mg/3 mL
1.7 mL	Atropine <b>IV</b> bradycardia, toxins		0.17 mg	0.02 mg/kg	1 mg/10 mL
0.85 mL			0.17 mg	0.02 mg/kg	0.2 mg/mL
0.43 mL			0.17 mg	0.02 mg/kg	0.4 mg/mL
0.28 mL			0.17 mg	0.02 mg/kg	0.6 mg/mL
4.25 mL	Calcium Gluconate 10% <b>IV</b>		425 mg	50 mg/kg	1,000 mg/10 mL
0.85 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.085 mg	0.01 mg/kg	1 mg/10 mL
0.85 mL	EPINEPHrine <b>ETT</b> 1:1,000		0.85 mg	0.1 mg/kg	1 mg/mL

**SYMPTOM RELIEF**

17 mL	Dextrose 10% <b>IV</b>		1.7 g	0.2 g/kg	100 mg/mL
N/A	Dextrose 50% <b>IV</b>		N/A	0.5 g/kg	500 mg/mL
0.43 mL	Dexamethasone <b>PO/IM/IV</b>		4.25 mg	0.5 mg/kg	10 mg/mL
0.17 mL	Diphenhydramine <b>IV/IM</b>		8.5 mg	1 mg/kg	50 mg/mL
0.09 mL	EPINEPHrine <b>IM</b> 1:1,000		0.085 mg	0.01 mg/kg	1 mg/mL
170 mL	Normal saline bolus <b>IV</b>		170 mL	20 mL/kg	N/A
85 mL	Normal saline <b>ROSC IV</b>		85 mL	10 mL/kg	N/A

**PAIN AND SEDATION**

0.17 mL	FentaNYL <b>IV/IN</b>		8.5 mcg	1 mcg/kg	100 mcg/2 mL
0.04 mL	Ketamine <b>IV</b>		2.125 mg	0.25 mg/kg	100 mg/2 mL
0.17 mL	Ketamine <b>IN</b>		8.5 mg	1 mg/kg	100 mg/2 mL
0.34 mL	Hydrocortisone <b>IM/IV</b>		17 mg	2 mg/kg	100 mg/2 mL
0.14 mL			17 mg	2 mg/kg	250 mg/2 mL
0.17 mL	Midazolam seizure <b>IV/IO</b>		0.85 mg	0.1 mg/kg	10 mg/2 mL
0.34 mL	Midazolam seizure <b>IM/IN/Buccal</b>		1.7 mg	0.2 mg/kg	10 mg/2 mL
0.04 – 0.08 mL	Morphine analgesia <b>IV/SC</b>		0.4 – 0.8 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

**Weight: 8 – 9 kg** **Age range: 6 to 11 months**

\* maximum dosage

<b>Weight: 10 – 11 kg</b>			<b>Age range: 12 to 23 months</b>	
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Normal vital sign range	HR: 98 – 140	RR: 22 – 37	BP: 86 – 106	42 – 63
Cardioversion	10 J	20 J	20 J	
Defibrillation	20 J	40 J	40 J	
ETT	3.5 – 4	<b>Suction Catheter</b>		
Laryngoscope Blade	1 – 1.5	ETT	6 Fr	
i-gel	1.5 – 2.0	i-gel	10 Fr	

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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<b>CARDIAC/RHYTHM</b>				
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0.33 mL	Adenosine <b>IV fast push</b>	1st dose	1 mg	0.1 mg/kg	6 mg/2 mL
0.66 mL		2nd dose	2 mg	0.2 mg/kg	6 mg/2 mL
1 mL	Amiodarone <b>IV</b>		50 mg	5 mg/kg	150 mg/3 mL
2 mL	Atropine <b>IV</b> bradycardia, toxins		0.2 mg	0.02 mg/kg	1 mg/10 mL
1 mL			0.2 mg	0.02 mg/kg	0.2 mg/mL
0.5 mL			0.2 mg	0.02 mg/kg	0.4 mg/mL
0.33 mL			0.2 mg	0.02 mg/kg	0.6 mg/mL
5 mL	Calcium Gluconate 10% <b>IV</b>		500 mg	50 mg/kg	1,000 mg/10 mL
1 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.1 mg	0.01 mg/kg	1 mg/10 mL
1 mL	EPINEPHrine <b>ETT</b> 1:1,000		1 mg	0.1 mg/kg	1 mg/mL

<b>SYMPTOM RELIEF</b>				
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20 mL	Dextrose 10% <b>IV</b>		2 g	0.2 g/kg	100 mg/mL
N/A	Dextrose 50% <b>IV</b>		N/A	0.5 g/kg	500 mg/mL
0.5 mL	Dexamethasone <b>PO/IM/IV</b>		5 mg	0.5 mg/kg	10 mg/mL
0.2 mL	DiphenhydrAMINE <b>IV/IM</b>		10 mg	1 mg/kg	50 mg/mL
0.1 mL	EPINEPHrine <b>IM</b> 1:1,000		0.1 mg	0.01 mg/kg	1 mg/mL
200 mL	Normal saline bolus <b>IV</b>		200 mL	20 mL/kg	
100 mL	Normal saline ROSC <b>IV</b>		100 mL	10 mL/kg	

<b>PAIN AND SEDATION</b>				
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0.2 mL	FentaNYL <b>IV/IN</b>		10 mcg	1 mcg/kg	100 mcg/2 mL
0.05 mL	Ketamine <b>IV</b>		2.5 mg	0.25 mg/kg	100 mg/2 mL
0.2 mL	Ketamine <b>IN</b>		10 mg	1 mg/kg	100 mg/2 mL
0.4 mL	Hydrocortisone <b>IM/IV</b>		20 mg	2 mg/kg	100 mg/2 mL
0.16 mL			20 mg	2 mg/kg	250 mg/2 mL
0.2 mL	Midazolam seizure <b>IV/IO</b>		1 mg	0.1 mg/kg	10 mg/2 mL
0.4 mL	Midazolam seizure <b>IM/IN/Buccal</b>		2 mg	0.2 mg/kg	10 mg/2 mL
0.05 – 0.1 mL	Morphine analgesia <b>IV/SC</b>		0.5 – 1 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

<b>Weight: 10 – 11 kg</b>			<b>Age range: 12 to 23 months</b>	
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\* maximum dosage

**Weight: 12 – 14 kg** **Age range: 2 years**

Normal vital sign range	HR: 98 – 140	RR: 22 – 37	BP: 86 – 106	42 – 63
Cardioversion	15 J	30 J	30 J	
Defibrillation	30 J	50 J	50 J	
ETT	4	<b>Suction Catheter</b>		
Laryngoscope Blade	1.5 – 2	ETT	6 – 8 Fr	
i-gel	1.5 – 2.0	i-gel	10 Fr	

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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**CARDIAC/RHYTHM**

0.4 mL	Adenosine <b>IV fast push</b>	1st dose	1.2 mg	0.1 mg/kg	6 mg/2 mL
0.8 mL		2nd dose	2.4 mg	0.2 mg/kg	6 mg/2 mL
1.2 mL	Amiodarone <b>IV</b>		60 mg	5 mg/kg	150 mg/3 mL
2.4 mL	Atropine <b>IV</b> bradycardia, toxins		0.24 mg	0.02 mg/kg	1 mg/10 mL
1.2 mL			0.24 mg	0.02 mg/kg	0.2 mg/mL
0.6 mL			0.24 mg	0.02 mg/kg	0.4 mg/mL
0.4 mL			0.24 mg	0.02 mg/kg	0.6 mg/mL
6 mL	Calcium Gluconate 10% <b>IV</b>		600 mg	50 mg/kg	1,000 mg/10 mL
1.2 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.12 mg	0.01 mg/kg	1 mg/10 mL
1.2 mL	EPINEPHrine <b>ETT</b> 1:1,000		1.2 mg	0.1 mg/kg	1 mg/mL

**SYMPTOM RELIEF**

24 mL	Dextrose 10% <b>IV</b>		2.4 g	0.2 g/kg	100 mg/mL
12 mL	Dextrose 50% <b>IV</b>		6 g	0.5 g/kg	500 mg/mL
0.6 mL	Dexamethasone <b>PO/IM/IV</b>		6 mg	0.5 mg/kg	10 mg/mL
0.24 mL	DiphenhydrAMINE <b>IV/IM</b>		12 mg	1 mg/kg	50 mg/mL
0.12 mL	EPINEPHrine <b>IM</b> 1:1,000		0.12 mg	0.01 mg/kg	1 mg/mL
240 mL	Normal saline bolus <b>IV</b>		240 mL	20 mL/kg	
120 mL	Normal saline <b>ROSC IV</b>		120 mL	10 mL/kg	

**PAIN AND SEDATION**

0.24 mL	FentaNYL <b>IV/IN</b>		12 mcg	1 mcg/kg	100 mcg/2 mL
0.06 mL	Ketamine <b>IV</b>		3 mg	0.25 mg/kg	100 mg/2 mL
0.24 mL	Ketamine <b>IN</b>		12 mg	1 mg/kg	100 mg/2 mL
0.48 mL	Hydrocortisone <b>IM/IV</b>		24 mg	2 mg/kg	100 mg/2 mL
0.19 mL			24 mg	2 mg/kg	250 mg/2 mL
0.24 mL	Midazolam seizure <b>IV/IO</b>		1.2 mg	0.1 mg/kg	10 mg/2 mL
0.48 mL	Midazolam seizure <b>IM/IN/Buccal</b>		2.4 mg	0.2 mg/kg	10 mg/2 mL
0.06 – 0.12 mL	Morphine analgesia <b>IV/SC</b>		0.6 – 1.2 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

**Weight: 12 – 14 kg** **Age range: 2 years**

\* maximum dosage

**Weight: 15 – 18 kg****Age range: 3 to 4 years**

Normal vital sign range	HR: 80 – 120	RR: 22 – 28	BP: 89 – 112	46 – 72
Cardioversion	15 J	30 J	30 J	
Defibrillation	30 J	70 J	70 J	
ETT	4.5	<b>Suction Catheter</b>		
Laryngoscope Blade	2	ETT	6 – 8 Fr	
i-gel	2	i-gel	10 Fr	

<b>Volume mL</b>	<b>Medication</b>	<b>Total Dose</b>	<b>Dose</b>	<b>Drug Supplied Concentration</b>
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**CARDIAC/RHYTHM**

0.5 mL	Adenosine <b>IV fast push</b>	1st dose	1.6 mg	0.1 mg/kg	6 mg/2 mL
1 mL		2nd dose	3.2 mg	0.2 mg/kg	6 mg/2 mL
1.6 mL	Amiodarone <b>IV</b>		80 mg	5 mg/kg	150 mg/3 mL
3.2 mL	Atropine <b>IV</b> bradycardia, toxins		0.32 mg	0.02 mg/kg	1 mg/10 mL
1.6 mL			0.32 mg	0.02 mg/kg	0.2 mg/mL
0.8 mL			0.32 mg	0.02 mg/kg	0.4 mg/mL
0.5 mL			0.32 mg	0.02 mg/kg	0.6 mg/mL
8 mL	Calcium Gluconate 10% <b>IV</b>		800 mg	50 mg/kg	1,000 mg/10 mL
1.6 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.16 mg	0.01 mg/kg	1 mg/10 mL
1.6 mL	EPINEPHrine <b>ETT</b> 1:1,000		1.6 mg	0.1 mg/kg	1 mg/mL

**SYMPTOM RELIEF**

32 mL	Dextrose 10% <b>IV</b>		3.2 g	0.2 g/kg	100 mg/mL
16 mL	Dextrose 50% <b>IV</b>		8 g	0.5 g/kg	500 mg/mL
0.8 mL	Dexamethasone <b>PO/IM/IV</b>		8 mg	8 mg*	10 mg/mL
0.3 mL	DiphenhydrAMINE <b>IV/IM</b>		16 mg	1 mg/kg	50 mg/mL
0.16 mL	EPINEPHrine <b>IM</b> 1:1,000		0.16 mg	0.01 mg/kg	1 mg/mL
320 mL	Normal saline bolus <b>IV</b>		320 mL	20 mL/kg	
160 mL	Normal saline ROSC <b>IV</b>		160 mL	10 mL/kg	

**PAIN AND SEDATION**

0.32 mL	FentaNYL <b>IV/IN</b>		16 mcg	1 mcg/kg	100 mcg/2 mL
0.08 mL	Ketamine <b>IV</b>		4 mg	0.25 mg/kg	100 mg/2 mL
0.32 mL	Ketamine <b>IN</b>		16 mg	1 mg/kg	100 mg/2 mL
0.64 mL	Hydrocortisone <b>IM/IV</b>		32 mg	2 mg/kg	100 mg/2 mL
0.26 mL			32 mg	2 mg/kg	250 mg/2 mL
0.32 mL	Midazolam seizure <b>IV/IO</b>		1.6 mg	0.1 mg/kg	10 mg/2 mL
0.64 mL	Midazolam seizure <b>IM/IN/Buccal</b>		3.2 mg	0.2 mg/kg	10 mg/2 mL
0.08 – 0.16 mL	Morphine analgesia <b>IV/SC</b>		0.8 – 1.6 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

**Weight: 15 – 18 kg****Age range: 3 to 4 years**

\* maximum dosage

<b>Weight: 19 – 23 kg</b>			<b>Age range: 5 to 6 years</b>	
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Normal vital sign range	HR: 80 – 120	RR: 18 – 25	BP: 89 – 112   46 – 72
Cardioversion	30 J	50 J	50 J
Defibrillation	50 J	85 J	85 J
ETT	5	<b>Suction Catheter</b>	
Laryngoscope Blade	2	ETT	10 Fr
i-gel	2	i-gel	10 Fr

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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<b>CARDIAC/RHYTHM</b>				
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0.67 mL	Adenosine <b>IV fast push</b>	1st dose	2 mg	0.1 mg/kg	6 mg/2 mL
1.3 mL		2nd dose	4 mg	0.2 mg/kg	6 mg/2 mL
2 mL	Amiodarone <b>IV</b>		100 mg	5 mg/kg	150 mg/3 mL
4 mL	Atropine <b>IV</b> bradycardia, toxins		0.4 mg	0.02 mg/kg	1 mg/10 mL
2 mL			0.4 mg	0.02 mg/kg	0.2 mg/mL
1 mL			0.4 mg	0.02 mg/kg	0.4 mg/mL
0.67 mL			0.4 mg	0.02 mg/kg	0.6 mg/mL
10 mL	Calcium Gluconate 10% <b>IV</b>		1,000 mg	1,000 mg*	1,000 mg/10 mL
2 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.2 mg	0.01 mg/kg	1 mg/10 mL
2 mL	EPINEPHrine <b>ETT</b> 1:1,000		2 mg	0.1 mg/kg	1 mg/mL

<b>SYMPTOM RELIEF</b>				
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40 mL	Dextrose 10% <b>IV</b>		4 g	0.2 g/kg	100 mg/mL
20 mL	Dextrose 50% <b>IV</b>		10 g	0.5 g/kg	500 mg/mL
0.8 mL	Dexamethasone <b>PO/IM/IV</b>		8 mg	8 mg*	10 mg/mL
0.4 mL	DiphenhydrAMINE <b>IV/IM</b>		20 mg	1 mg/kg	50 mg/mL
0.2 mL	EPINEPHrine <b>IM</b> 1:1,000		0.2 mg	0.01 mg/kg	1 mg/mL
400 mL	Normal saline bolus <b>IV</b>		400 mL	20 mL/kg	
200 mL	Normal saline ROSC <b>IV</b>		200 mL	10 mL/kg	

<b>PAIN AND SEDATION</b>				
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0.4 mL	FentaNYL <b>IV/IN</b>		20 mcg	1 mcg/kg	100 mcg/2 mL
0.1 mL	Ketamine <b>IV</b>		5 mg	0.25 mg/kg	100 mg/2 mL
0.4 mL	Ketamine <b>IN</b>		20 mg	1 mg/kg	100 mg/2 mL
0.8 mL	Hydrocortisone <b>IM/IV</b>		40 mg	2 mg/kg	100 mg/2 mL
0.32 mL			40 mg	2 mg/kg	250 mg/2 mL
0.4 mL	Midazolam seizure <b>IV/IO</b>		2 mg	0.1 mg/kg	10 mg/2 mL
0.8 mL	Midazolam seizure <b>IM/IN/Buccal</b>		4 mg	0.2 mg/kg	10 mg/2 mL
0.1 – 0.2 mL	Morphine analgesia <b>IV/SC</b>		1 – 2 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

<b>Weight: 19 – 23 kg</b>	<b>Age range: 5 to 6 years</b>
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\* maximum dosage

<b>Weight: 24 – 29 kg</b>	<b>Age range: 7 to 9 years</b>
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Normal vital sign range	HR: 75 – 118	RR: 18 – 25	BP: 97 – 115   57 – 76
Cardioversion	30 J	70 J	70 J
Defibrillation	70 J	120 J	120 J
ETT	5.5	<b>Suction Catheter</b>	
Laryngoscope Blade	2 – 3	ETT	10 Fr
i-gel	2.0 – 2.5	i-gel	10 Fr

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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<b>CARDIAC/RHYTHM</b>				
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0.9 mL	Adenosine <b>IV fast push</b>	1st dose	2.7 mg	0.1 mg/kg	6 mg/2 mL
1.8 mL		2nd dose	5.4 mg	0.2 mg/kg	6 mg/2 mL
2.7 mL	Amiodarone <b>IV</b>		135 mg	5 mg/kg	150 mg/3 mL
5 mL	Atropine <b>IV</b> bradycardia, toxins		0.5 mg	0.02 mg/kg	1 mg/10 mL
2.5 mL			0.5 mg	0.02 mg/kg	0.2 mg/mL
1.25 mL			0.5 mg	0.02 mg/kg	0.4 mg/mL
0.83 mL			0.5 mg	0.02 mg/kg	0.6 mg/mL
10 mL	Calcium Gluconate 10% <b>IV</b>		1,000 mg	1,000 mg *	1,000 mg/10 mL
2.7 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		0.27 mg	0.01 mg/kg	1 mg/10 mL
2 mL	EPINEPHrine <b>ETT</b> 1:1,000		2 mg	0.1 mg/kg	1 mg/mL

<b>SYMPTOM RELIEF</b>				
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54 mL	Dextrose 10% <b>IV</b>		5.4 g	0.2 g/kg	100 mg/mL
27 mL	Dextrose 50% <b>IV</b>		13.5 g	0.5 g/kg	500 mg/mL
0.8 mL	Dexamethasone <b>PO/IM/IV</b>		8 mg	8 mg *	10 mg/mL
0.5 mL	DiphenhydrAMINE <b>IV/IM</b>		25 mg	1 mg/kg	50 mg/mL
0.27 mL	EPINEPHrine <b>IM</b> 1:1,000		0.27 mg	0.01 mg/kg	1 mg/mL
540 mL	Normal saline bolus <b>IV</b>		540 mL	20 mL/kg	
270 mL	Normal saline ROSC <b>IV</b>		270 mL	10 mL/kg	

<b>PAIN AND SEDATION</b>				
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0.54 mL	FentaNYL <b>IV/IN</b>		27 mcg	1 mcg/kg	100 mcg/2 mL
0.14 mL	Ketamine <b>IV</b>		6.75 mg	0.25 mg/kg	100 mg/2 mL
0.54 mL	Ketamine <b>IN</b>		27 mg	1 mg/kg	100 mg/2 mL
1.1 mL	Hydrocortisone <b>IM/IV</b>		54 mg	2 mg/kg	100 mg/2 mL
0.43 mL			54 mg	2 mg/kg	250 mg/2 mL
0.54 mL	Midazolam seizure <b>IV/IO</b>		2.7 mg	0.1 mg/kg	10 mg/2 mL
1.1 mL	Midazolam seizure <b>IM/IN/Buccal</b>		5.4 mg	0.2 mg/kg	10 mg/2 mL
0.14 – 0.27 mL	Morphine analgesia <b>IV/SC</b>		1.4 – 2.7 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg *	2 mg/2 mL

<b>Weight: 24 – 29 kg</b>	<b>Age range: 7 to 9 years</b>
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\* maximum dosage

<b>Weight: 30 - 36 kg</b>	<b>Age range: 10 to 12 years</b>
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Normal vital sign range	HR: 60 – 100	RR: 12 – 20	BP: 102 – 120   61 – 80
Cardioversion	30 J	70 J	70 J
Defibrillation	120 J	150 J	200 J
ETT	6	<b>Suction Catheter</b>	
Laryngoscope Blade	2 – 3	ETT	10 – 12 Fr
i-gel	2.5 – 3	i-gel	10 – 12 Fr

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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CARDIAC/RHYTHM					
1.1 mL	<b>Adenosine IV fast push</b>	1st dose	3.3 mg	0.1 mg/kg	6 mg/2 mL
2.2 mL		2nd dose	6.6 mg	0.2 mg/kg	6 mg/2 mL
3.3 mL	<b>Amiodarone IV</b>	1st dose	165 mg	0.02 mg/kg	0.4 mg/mL
3 mL		2nd dose	150 mg	150 mg *	0.6 mg/mL
5 mL	Atropine IV bradycardia, toxins		0.5 mg	0.5 mg *	1,000 mg/10 mL
2.5 mL			0.5 mg	0.5 mg *	1 mg/10 mL
1.25 mL			0.5 mg	0.5 mg *	1 mg/mL
0.83 mL			0.5 mg	0.5 mg *	0.6 mg/mL
10 mL	<b>Calcium Gluconate 10% IV</b>		1,000 mg	1,000 mg *	1,000 mg/10 mL
3.3 mL	<b>EPINEPHrine IV/IO 1:10,000</b>		0.33 mg	0.01 mg/kg	1 mg/10 mL
2 mL	<b>EPINEPHrine ETT 1:1,000</b>		2 mg	2 mg *	1 mg/mL

SYMPTOM RELIEF					
66 mL	<b>Dextrose 10% IV</b>		6.6 g	0.2 g/kg	100 mg/mL
33 mL	<b>Dextrose 50% IV</b>		16.5 g	0.5 g/kg	500 mg/mL
0.8 mL	<b>Dexamethasone PO/IM/IV</b>		8 mg	8 mg *	10 mg/mL
0.5 mL	<b>DiphenhydrAMINE IV/IM</b>		25 mg	1 mg/kg	50 mg/mL
0.33 mL	<b>EPINEPHrine IM 1:1,000</b>		0.33 mg	0.01 mg/kg	1 mg/mL
660 mL	<b>Normal saline bolus IV</b>		660 mL	20 mL/kg	
330 mL	<b>Normal saline ROSC IV</b>		330 mL	10 mL/kg	

PAIN AND SEDATION					
0.66 mL	<b>FentaNYL IV/IN</b>		33 mcg	1 mcg/kg	100 mcg/2 mL
0.17 mL	<b>Ketamine IV</b>		8.25 mg	0.25 mg/kg	100 mg/2 mL
0.66 mL	<b>Ketamine IN</b>		33 mg	1 mg/kg	100 mg/2 mL
1.32 mL	Hydrocortisone IM/IV		66 mg	2 mg/kg	100 mg/2 mL
0.53 mL			66 mg	2 mg/kg	250 mg/2 mL
0.66 mL	<b>Midazolam seizure IV/IO</b>		3.3 mg	0.1 mg/kg	10 mg/2 mL
1.32 mL	<b>Midazolam seizure IM/IN/Buccal</b>		6.6 mg	0.2 mg/kg	10 mg/2 mL
0.17 – 0.33 mL	<b>Morphine analgesia IV/SC</b>		1.65 – 3.3 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	<b>Naloxone IV/IM</b>		0.4 mg	0.4 mg *	2 mg/2 mL

<b>Weight: 30 - 36 kg</b>	<b>Age range: 10 to 12 years</b>
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\* maximum dosage

<b>Weight: 37 – 42 kg</b>	<b>Age range: 12 to 15 years</b>
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Normal vital sign range	HR: 60 – 100	RR: 12 – 20	BP: 110 – 131   64 – 83
Cardioversion	50 J	85 J	85 J
Defibrillation	120 J	150 J	200 J
ETT	6 – 7	<b>Suction Catheter</b>	
Laryngoscope Blade	3	ETT	12 – 14 Fr
i-gel	3	i-gel	12 Fr

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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<b>CARDIAC/RHYTHM</b>				
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1.3 mL	<b>Adenosine IV fast push</b>	1st dose	4 mg	0.1 mg/kg	6 mg/2 mL
2.7 mL		2nd dose	8 mg	0.2 mg/kg	6 mg/2 mL
6 mL	<b>Amiodarone IV</b>	1st dose	300 mg	300 mg *	150 mg/3 mL
3 mL		2nd dose	150 mg	150 mg *	150 mg/3 mL
8 mL	<b>Atropine IV</b> bradycardia, toxins		0.8 mg	0.02 mg/kg	1 mg/10 mL
4 mL			0.8 mg	0.02 mg/kg	0.2 mg/mL
2 mL			0.8 mg	0.02 mg/kg	0.4 mg/mL
1.3 mL			0.8 mg	0.02 mg/kg	0.6 mg/mL
10 mL	<b>Calcium Gluconate 10% IV</b>		1,000 mg	1,000 mg *	1,000 mg/10 mL
10 mL	<b>EPINEPHrine IV/IO</b> 1:10,000		1 mg	1 mg *	1 mg/10 mL
2 mL	<b>EPINEPHrine ETT</b> 1:1,000		2 mg	2 mg *	1 mg/mL

<b>SYMPTOM RELIEF</b>				
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80 mL	<b>Dextrose 10% IV</b>	8 g	0.2 g/kg	100 mg/mL
40 mL	<b>Dextrose 50% IV</b>	20 g	0.5 g/kg	500 mg/mL
0.8 mL	<b>Dexamethasone PO/IM/IV</b>	8 mg	8 mg *	10 mg/mL
0.5 mL	<b>DiphenhydrAMINE IV/IM</b>	25 mg	1 mg/kg	50 mg/mL
0.4 mL	<b>EPINEPHrine IM</b> 1:1,000	0.4 mg	0.01 mg/kg	1 mg/mL
800 mL	<b>Normal saline bolus IV</b>	800 mL	20 mL/kg	
400 mL	<b>Normal saline ROSC IV</b>	400 mL	10 mL/kg	

<b>PAIN AND SEDATION</b>				
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0.8 mL	<b>FentaNYL IV/IN</b>	40 mcg	1 mcg/kg	100 mcg/2 mL
0.2 mL	<b>Ketamine IV</b>	10 mg	10 mg *	100 mg/2 mL
0.6 mL	<b>Ketamine IN</b>	30 mg	30 mg *	100 mg/2 mL
1.6 mL	<b>Hydrocortisone IM/IV</b>	80 mg	2 mg/kg	100 mg/2 mL
0.64 mL		80 mg	2 mg/kg	250 mg/2 mL
0.8 mL	<b>Midazolam seizure IV/IO</b>	4 mg	0.1 mg/kg	10 mg/2 mL
1.6 mL	<b>Midazolam seizure IM/IN/Buccal</b>	8 mg	0.2 mg/kg	10 mg/2 mL
0.2 – 0.4 mL	<b>Morphine analgesia IV/SC</b>	2 – 4 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	<b>Naloxone IV/IM</b>	0.4 mg	0.4 mg *	2 mg/2 mL

<b>Weight: 37 – 42 kg</b>	<b>Age range: 12 to 15 years</b>
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\* maximum dosage

Weight: 43 – 47 kg				Age range: adolescent	
Normal vital sign range	HR: 60 – 100	RR: 12 – 20	BP: 110 – 131	64 – 83	
Cardioversion	50 J	100 J	100 J		
Defibrillation	120 J	150 J	200 J		
ETT	6 – 7	Suction Catheter			
Laryngoscope Blade	3	ETT	12 – 14 Fr		
i-gel	3	i-gel	12 Fr		
Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration	
<b>CARDIAC/RHYTHM</b>					
1.5 mL	Adenosine <b>IV fast push</b>	1st dose	4.5 mg	0.1 mg/kg	6 mg/2 mL
3 mL		2nd dose	9 mg	0.2 mg/kg	6 mg/2 mL
6 mL	Amiodarone <b>IV</b>	1st dose	300 mg	300 mg *	150 mg/3 mL
3 mL		2nd dose	150 mg	150 mg *	150 mg/3 mL
9 mL	Atropine <b>IV</b> bradycardia, toxins		0.9 mg	0.02 mg/kg	1 mg/10 mL
4.5 mL			0.9 mg	0.02 mg/kg	0.2 mg/mL
2.25 mL			0.9 mg	0.02 mg/kg	0.4 mg/mL
1.5 mL			0.9 mg	0.02 mg/kg	0.6 mg/mL
10 mL	Calcium Gluconate 10% <b>IV</b>		1,000 mg	1,000 mg	1,000 mg/10 mL
10 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		1 mg	1 mg *	1 mg/10 mL
2 mL	EPINEPHrine <b>ETT</b> 1:1,000		2 mg	2 mg *	1 mg/mL
<b>SYMPTOM RELIEF</b>					
90 mL	Dextrose 10% <b>IV</b>		9 g	0.2 g/kg	100 mg/mL
45 mL	Dextrose 50% <b>IV</b>		22.5 g	0.5 g/kg	500 mg/mL
0.8 mL	Dexamethasone <b>PO/IM/IV</b>		8 mg	8 mg *	10 mg/mL
0.5 mL	DiphenhydrAMINE <b>IV/IM</b>		25 mg	1 mg/kg	50 mg/mL
0.45 mL	EPINEPHrine <b>IM</b> (1:1000)		0.45 mg	0.01 mg/kg	1 mg/mL
900 mL	Normal saline bolus <b>IV</b>		900 mL	20 mL/kg	
450 mL	Normal saline <b>ROSC IV</b>		450 mL	10 mL/kg	
<b>PAIN AND SEDATION</b>					
0.9 mL	FentaNYL <b>IV/IN</b>		45 mcg	1 mcg/kg	100 mcg/2 mL
0.2 mL	Ketamine <b>IV</b>		10 mg	10 mg *	100 mg/2 mL
0.6 mL	Ketamine <b>IN</b>		30 mg	30 mg *	100 mg/2 mL
1.8 mL	Hydrocortisone <b>IM/IV</b>		90 mg	2 mg/kg	100 mg/2 mL
0.72 mL			90 mg	2 mg/kg	250 mg/2 mL
0.9 mL	Midazolam seizure <b>IV/IO</b>		4.5 mg	0.1 mg/kg	10 mg/2 mL
1.8 mL	Midazolam seizure <b>IM/IN/Buccal</b>		9 mg	0.2 mg/kg	10 mg/2 mL
0.23 - 0.45 mL	Morphine analgesia <b>IV/SC</b>		2.25 – 4.5 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg *	2 mg/2 mL
Weight: 43 – 47 kg				Age range: 12 to 15 years	

\* maximum dosage

<b>Weight: 48 – 52 kg</b>			<b>Age range: 12 to 15 years</b>		
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Normal vital sign range	HR: 60 – 100	RR: 12 – 20	BP: 110 – 131   64 – 83
Cardioversion	50 J	100 J	100 J
Defibrillation	120 J	150 J	200 J
ETT	6 – 7	<b>Suction Catheter</b>	
Laryngoscope Blade	3	ETT	12 – 14 Fr
i-gel	3 – 4	i-gel	12 Fr

Volume mL	Medication	Total Dose	Dose	Drug Supplied Concentration
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<b>CARDIAC/RHYTHM</b>				
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1.7 mL	Adenosine <b>IV fast push</b>	1st dose	5 mg	0.1 mg/kg	6 mg/2 mL
3.5 mL		2nd dose	10 mg	0.2 mg/kg	6 mg/2 mL
6 mL	Amiodarone <b>IV</b>	1st dose	300 mg	300 mg*	150 mg/3 mL
3 mL		2nd dose	150 mg	150 mg*	150 mg/3 mL
10 mL	Atropine <b>IV</b> bradycardia, toxins		1 mg	1 mg*	1 mg/10 mL
5 mL			1 mg	1 mg*	0.2 mg/mL
2.5 mL			1 mg	1 mg*	0.4 mg/mL
1.7 mL			1 mg	1 mg*	0.6 mg/mL
10 mL	Calcium Gluconate 10% <b>IV</b>		1,000 mg	1,000 mg*	1,000 mg/10 mL
10 mL	EPINEPHrine <b>IV/IO</b> 1:10,000		1 mg	1 mg*	1 mg/10 mL
2 mL	EPINEPHrine <b>ETT</b> 1:1,000		2 mg	2 mg*	1 mg/mL

<b>SYMPTOM RELIEF</b>					
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100 mL	Dextrose 10% <b>IV</b>		10 g	0.2 g/kg	100 mg/mL
50 mL	Dextrose 50% <b>IV</b>		25 g	25 g*	500 mg/mL
0.8 mL	Dexamethasone <b>PO/IM/IV</b>		8 mg	8 mg*	10 mg/mL
1 mL	DiphenhydrAMINE <b>IV/IM</b>		50 mg	1 mg/kg	50 mg/mL
0.5 mL	EPINEPHrine <b>IM</b> 1:1,000		0.5 mg	0.01 mg/kg	1 mg/mL
1,000 mL	Normal saline bolus <b>IV</b>		1,000 mL	20 mL/kg	
500 mL	Normal saline ROSC <b>IV</b>		500 mL	10 mL/kg	

<b>PAIN AND SEDATION</b>					
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1 mL	FentaNYL <b>IV/IN</b>		50 mcg	1 mcg/kg	100 mcg/2 mL
0.2 mL	Ketamine <b>IV</b>		10 mg	10 mg*	100 mg/2 mL
0.6 mL	Ketamine <b>IN</b>		30 mg	30 mg*	100 mg/2 mL
2 mL	Hydrocortisone <b>IM/IV</b>		100 mg	100 mg*	100 mg/2 mL
0.8 mL			100 mg	100 mg*	250 mg/2 mL
1 mL	Midazolam seizure <b>IV/IO</b>		5 mg	0.1 mg/kg	10 mg/2 mL
2 mL	Midazolam seizure <b>IM/IN/Buccal</b>		10 mg	0.2 mg/kg	10 mg/2 mL
0.25 – 0.5 mL	Morphine analgesia <b>IV/SC</b>		2.5 – 5 mg	0.05 – 0.1 mg/kg	10 mg/mL
0.4 mL	Naloxone <b>IV/IM</b>		0.4 mg	0.4 mg*	2 mg/2 mL

<b>Weight: 48 – 52 kg</b>			<b>Age range: 12 to 15 years</b>		
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\* maximum dosage