

## MEDICAL CONTROL GUIDELINE: COLOR CODE DRUG DOSES



### PRINCIPLES:

1. Correct dosing of medications based on weight in kilograms is a safety concern for delivery of medications to children and adults in the prehospital setting.
2. To optimize safety in dosing medications for children and adults, a standard formulary has been created. This **Color Code Drug Doses** medical control guideline pre-calculates all doses based on kilogram weight for children and an adult dose including maximum dose is delineated.
3. EMS provider agencies shall procure medications and stock approved Assessment and ALS Units in accordance with the drug formulation specified in this medical control guideline.
4. The Color Code Drug Doses and the Treatment Protocols shall be used to determine drug doses.

### GUIDELINES:

1. EMS providers shall utilize a length-based resuscitation tape (i.e., Broselow™) to determine weight in kilograms and color code of children less than or equal to 14 years of age.
2. EMS providers shall use this guideline to determine dose of medication for children 3 to 36 kilograms. Documentation of dose will be in mgs and in mLs.
3. EMS providers contacting the base hospital shall report and document the appropriate color code and weight in kilograms utilizing a length-based resuscitation tape (i.e., Broselow™).
4. Base hospital personnel shall use this guideline to order dose of medication for children 3 to 36 kilograms; all doses will be given in mg and mLs.
5. Adult dosing will be used for children who are measured to be longer than the length-based resuscitation tape.

**DRUG FORMULATIONS:**

MEDICATION	FORMULATION	DOSAGE	Maximum Single Dose
Adenosine	3mg/mL	0.1mg/kg Repeat dose 0.2mg/kg	12mg
Albuterol	2.5mg/3mL	2.5mg <4 years; 5mg 4 years or older	5mg
Albuterol MDI	90 mcg/puff	2 puffs <4 years; 4 puffs 4 years or older	360 mcg
Amiodarone	50mg/mL	5mg/kg	300mg
Atropine	0.1mg/mL	0.02mg/kg	1mg (adult) 0.5mg (pediatric)
Calcium Chloride (dilute 1:1 with NS if <1year)	100mg/mL	20mg/kg	1gm
Dextrose 10%	0.1gm/mL	5mL/kg*	250mL
<p>≤24kg: Dextrose 10% in water, 5mL/kg in 1mL/kg increments, reassess for clinical improvement after every 1mL/kg. Administer slow IVP. May repeat as needed, maximum total dose 5mL/kg. Recheck glucose prn after 3mL/kg infused</p> <p>&gt;24 kg: Dextrose 10% in water, administer 125mL IVPB and reassess, continue infusion as needed with maximum dose of 5mL/ kg</p>			
Diphenhydramine	50mg/mL	1mg/kg	50mg
DuoDote™ (Pralidoxime Chloride)	Auto injector	1 DuoDote™	3 DuoDotes™
Epinephrine ( <b>Push Dose</b> ) <b>0.1mg/mL IV</b>	0.01mg/mL	0.1mL/kg every 1-5 mins	10mcg (1 mL)
<p>Mix 9mL of normal saline with 1mL of epinephrine 0.1mg/mL (IV epi) in a 10mL syringe to create epinephrine 0.01mg/mL, administer 0.1mL/kg (up to 1 mL at a time) every 1-5 mins to maintain adequate SBP.</p>			
Epinephrine <b>0.1mg/mL IV</b>	0.1mg/mL	0.01mg/kg	1mg
Epinephrine <b>1mg/mL IM</b>	1mg/mL	0.01mg/kg	0.5mg
Epinephrine <b>1mg/mL Nebulized (NEB)</b>	1mg/mL	2.5mg <1 year; 5mg 1 year or older	5mg (5mL)
Fentanyl <b>IV/IM</b>	50mcg/mL	1mcg/kg	50mcg
Fentanyl <b>IN</b>	50mcg/mL	1.5mcg/kg	50mcg
Glucagon	1mg/mL	0.5 mg <1 year; 1mg 1 year or older	1mg
Glucopaste (4 years or older)	15gm	15gm	15gm
Ketorolac <b>slow IV/IO push</b>	15mg/mL	0.5mg/kg	15mg
Ketorolac <b>IM (Adult)</b>	15mg/mL	1mg/kg	30mg
Ketorolac <b>IM (Pediatric)</b>	15mg/mL	0.5mg/kg	15mg
Lidocaine 2% ( <b>IO ONLY</b> )	20mg/mL	0.5 mg/kg	40mg
Midazolam <b>IV/IM/IO</b>	5mg/mL	0.1mg/kg	5mg

MEDICATION	FORMULATION	DOSAGE	Maximum Single Dose
Midazolam <b>IN</b>	5mg/mL	0.2mg/kg	5mg
Morphine Sulfate <b>IV/IM/IO</b>	4mg/mL	0.1mg/kg	4mg
Naloxone	1mg/mL	0.1mg/kg	2mg
Normal Saline	0.9% Na Cl	20mL/kg	1L
Nitroglycerin SL (adults only)	0.4mg	0.4mg	1.2mg
Ondansetron ODT/IV/IM	4mg tab or (4 years or older ODT only) 2mg/mL IV/IM (adults only)	4mg	4mg
Sodium Bicarbonate IV (dilute 1:1 with NS if <1year)	1mEq/mL	1mEq/kg	50mEq

3 Kg	Length 47 – 59.5 cm			Less than 3 months			
	<b>Normal Vital Signs:</b>	Heart Rate: 100-180		Respirations: 30-60		Systolic BP: >60	
	<b>Cardioversion:</b>	3 joules		6 joules		6 joules	
	<b>Defibrillation:</b>	6 joules		12 joules		12 joules	
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	0.3mg	0.1mL	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl IV/IM	3mcg	0.06mL	
	Amiodarone	15mg	0.3mL	Fentanyl IN	4.5mcg	0.09mL	
	Atropine	0.06mg	0.6mL	Glucagon IM	0.5mg	0.5mL	
	Calcium Chloride*	60mg	0.6mL	Lidocaine 2% IO	1.5mg	0.08mL	
	Dextrose 10% slow IV	15mL	15mL	Midazolam IV/IM/IO	0.3mg	0.06mL	
	Diphenhydramine IV/IM	3mg	0.06mL	Midazolam IN	0.6mg	0.12mL	
	Duodote™	1 dose	NA	Morphine IV/IM/IO	0.3mg	0.08mL	
	Epinephrine Push Dose	3mcg	0.3mL	Naloxone IV/IM/IN	0.3mg	0.3mL	
	Epinephrine 0.1mg/mL IV	0.03mg	0.3mL	Normal Saline IV Bolus	60mL	60mL	
	Epinephrine 1mg/mL IM	0.03mg	0.03mL	Sodium Bicarbonate*	3mEq	3mL	
4 Kg	<b>Cardioversion:</b>	4 joules		8 joules		8 joules	
	<b>Defibrillation:</b>	8 joules		16 joules		16 joules	
		<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>
		Adenosine	0.4mg	0.13mL	Epinephrine 1mg/mL NEB	2.5mg	2.5mL
		Albuterol NEB	2.5mg	3mL	Fentanyl IV/IM	4mcg	0.08mL
		Amiodarone	20mg	0.4mL	Fentanyl IM	6mcg	0.12mL
		Atropine	0.08mg	0.8mL	Glucagon IM	0.5mg	0.5mL
		Calcium Chloride*	80mg	0.8mL	Lidocaine 2% IO	2mg	0.1mL
		Dextrose 10% slow IV	20mL	20mL	Midazolam IV/IM/IO	0.4mg	0.08mL
		Diphenhydramine IV/IM	4mg	0.08mL	Midazolam IN	0.8mg	0.16mL
		Duodote™	1 dose	NA	Morphine IV/IM/IO	0.4mg	0.1mL
		Epinephrine Push Dose	4mcg	0.4mL	Naloxone IV/IM/IN	0.4mg	0.4mL
	Epinephrine 0.1mg/mL IV	0.04mg	0.4mL	Normal Saline IV Bolus	80mL	80mL	
	Epinephrine 1mg/mL IM	0.04mg	0.04mL	Sodium Bicarbonate*	4mEq	4mL	
5 Kg	<b>Cardioversion:</b>	5 joules		10 joules		10 joules	
	<b>Defibrillation:</b>	10 joules		20 joules		20 joules	
		<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>
		Adenosine	0.5mg	0.17mL	Epinephrine 1mg/mL NEB	2.5mg	2.5mL
		Albuterol NEB	2.5mg	3mL	Fentanyl IV/IM	5mcg	0.1mL
		Amiodarone	25mg	0.5mL	Fentanyl IM	7.5mcg	0.15mL
		Atropine	0.1mg	1mL	Glucagon IM	0.5mg	0.5mL
		Calcium Chloride*	100mg	1mL	Lidocaine 2% IO	2.5mg	0.12mL
		Dextrose 10% slow IV	25mL	25mL	Midazolam IV/IM/IO	0.5mg	0.1mL
		Diphenhydramine IV/IM	5mg	0.1mL	Midazolam IN	1mg	0.2mL
		Duodote™	1 dose	NA	Morphine IV/IM/IO	0.5mg	0.12mL
		Epinephrine Push Dose	5mcg	0.5mL	Naloxone IV/IM/IN	0.5mg	0.5mL
	Epinephrine 0.1mg/mL IV	0.05mg	0.5mL	Normal Saline IV Bolus	100mL	100mL	
	Epinephrine 1mg/mL IM	0.05mg	0.05mL	Sodium Bicarbonate*	5mEq	5mL	

\*dilute 1:1 with NS

<b>6 Kg</b>	<b>Length 59.5 – 62 cm</b>			<b>3 – 4 months</b>			<b>PINK</b>
	<b>Normal Vital Signs:</b>	Heart Rate: 100-160	Respirations: 25-40	Systolic BP: >70			
	<b>Cardioversion:</b>	6 joules	12 joules	12 joules			
	<b>Defibrillation:</b>	12 joules	24 joules	24 joules			
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	0.6mg	<b>0.2mL</b>	Epinephrine <b>1mg/mL NEB</b>	2.5mg	<b>2.5mL</b>	
	Albuterol NEB	2.5mg	<b>3mL</b>	Fentanyl <b>IV/IM</b>	6mcg	<b>0.12mL</b>	
	Amiodarone	30mg	<b>0.6mL</b>	Fentanyl <b>IN</b>	9mcg	<b>0.18mL</b>	
	Atropine	0.12mg	<b>1.2mL</b>	Glucagon IM	0.5mg	<b>0.5mL</b>	
	Calcium Chloride*	120mg	<b>1.2mL</b>	Lidocaine 2% IO	3mg	<b>0.15mL</b>	
	Dextrose 10% slow IV	30mL	<b>30mL</b>	Midazolam <b>IV/IM/IO</b>	0.6mg	<b>0.12mL</b>	
	Diphenhydramine IV/IM	6mg	<b>0.12mL</b>	Midazolam <b>IN</b>	1.2mg	<b>0.24mL</b>	
	Duodote™	1 dose	<b>NA</b>	Morphine IV/IM/IO	0.6mg	<b>0.15mL</b>	

\*dilute 1:1 with NS

<b>7 Kg</b>	<b>Length 62 – 66 cm</b>			<b>5 – 6 months</b>			<b>PINK</b>
	<b>Cardioversion:</b>	7 joules	14 joules	14 joules			
	<b>Defibrillation:</b>	14 joules	28 joules	28 joules			
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	0.7mg	<b>0.23mL</b>	Epinephrine <b>1mg/mL NEB</b>	2.5mg	<b>2.5mL</b>	
	Albuterol NEB	2.5mg	<b>3mL</b>	Fentanyl <b>IV/IM</b>	7mcg	<b>0.14mL</b>	
	Amiodarone	35mg	<b>0.7mL</b>	Fentanyl <b>IN</b>	10.5mcg	<b>0.21mL</b>	
	Atropine	0.14mg	<b>1.4mL</b>	Glucagon IM	0.5mg	<b>0.5mL</b>	
	Calcium Chloride*	140mg	<b>1.4mL</b>	Lidocaine 2% IO	3.5mg	<b>0.18mL</b>	
	Dextrose 10% slow IV	35mL	<b>35mL</b>	Midazolam <b>IV/IM/IO</b>	0.7mg	<b>0.14mL</b>	
	Diphenhydramine IV/IM	7mg	<b>0.14mL</b>	Midazolam <b>IN</b>	1.4mg	<b>0.28mL</b>	
	Duodote™	1 dose	<b>NA</b>	Morphine IV/IM/IO	0.7mg	<b>0.18mL</b>	

\*dilute 1:1 with NS

<b>8 Kg</b>	<b>Length 66 – 69.5 cm</b>			<b>7 - 8 months</b>			<b>RED</b>
	<b>Normal Vital Signs:</b>		Heart Rate: 100-160	Respirations: 20-40	Systolic BP: >70		
	<b>Cardioversion:</b>		8 joules	16 joules	16 joules		
	<b>Defibrillation:</b>		16 joules	32 joules	32 joules		
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
Adenosine	0.8mg	<b>0.27mL</b>	Epinephrine <b>1mg/mL NEB</b>	2.5mg	<b>2.5mL</b>		
Albuterol NEB	2.5mg	<b>3mL</b>	Fentanyl <b>IV/IM</b>	8mcg	<b>0.16mL</b>		
Amiodarone	40mg	<b>0.8mL</b>	Fentanyl <b>IN</b>	12mcg	<b>0.24mL</b>		
Atropine	0.16mg	<b>1.6mL</b>	Glucagon IM	0.5mg	<b>0.5mL</b>		
Calcium Chloride*	160mg	<b>1.6mL</b>	Lidocaine 2% IO	4mg	<b>0.2mL</b>		
Dextrose 10% slow IV	40mL	<b>40mL</b>	Midazolam <b>IV/IM/IO</b>	0.8mg	<b>0.16mL</b>		
Diphenhydramine IV/IM	8mg	<b>0.16mL</b>	Midazolam <b>IN</b>	1.6mg	<b>0.32mL</b>		
Duodote™	1 dose	<b>NA</b>	Morphine IV/IM/IO	0.8mg	<b>0.2mL</b>		
Epinephrine <b>Push Dose</b>	8mcg	<b>0.8mL</b>	Naloxone IV/IM/IN	0.8mg	<b>0.8mL</b>		
Epinephrine <b>0.1mg/mL IV</b>	0.08mg	<b>0.8mL</b>	Normal Saline IV Bolus	160mL	<b>160mL</b>		
Epinephrine <b>1mg/mL IM</b>	0.08mg	<b>0.08mL</b>	Sodium Bicarbonate*	8mEq	<b>8mL</b>		

\*dilute 1:1 with NS

<b>9 Kg</b>	<b>Length 69 – 73 cm</b>			<b>9 – 10 months</b>			<b>RED</b>
	<b>Cardioversion:</b>		9 joules	18 joules	18 joules		
	<b>Defibrillation:</b>		18 joules	36 joules	36 joules		
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	0.9mg	<b>0.3mL</b>	Epinephrine <b>1mg/mL NEB</b>	2.5mg	<b>2.5mL</b>	
Albuterol NEB	2.5mg	<b>3mL</b>	Fentanyl <b>IV/IM</b>	9mcg	<b>0.18mL</b>		
Amiodarone	45mg	<b>0.9mL</b>	Fentanyl <b>IN</b>	13.5mcg	<b>0.27mL</b>		
Atropine	0.18mg	<b>1.8mL</b>	Glucagon IM	0.5mg	<b>0.5mL</b>		
Calcium Chloride*	180mg	<b>1.8mL</b>	Lidocaine 2% IO	4.5mg	<b>0.22mL</b>		
Dextrose 10% slow IV	45mL	<b>45mL</b>	Midazolam <b>IV/IM/IO</b>	0.9mg	<b>0.18mL</b>		
Diphenhydramine IV/IM	9mg	<b>0.18mL</b>	Midazolam <b>IN</b>	1.8mg	<b>0.36mL</b>		
Duodote™	1 dose	<b>NA</b>	Morphine IV/IM/IO	0.9mg	<b>0.22mL</b>		
Epinephrine <b>Push Dose</b>	9mcg	<b>0.9mL</b>	Naloxone IV/IM/IN	0.9mg	<b>0.9mL</b>		
Epinephrine <b>0.1mg/mL IV</b>	0.09mg	<b>0.9mL</b>	Normal Saline IV Bolus	180mL	<b>180mL</b>		
Epinephrine <b>1mg/mL IM</b>	0.09mg	<b>0.09mL</b>	Sodium Bicarbonate*	9mEq	<b>9mL</b>		

\*dilute 1:1 with NS

<b>10 Kg</b>	<b>Length 73 – 78 cm</b>			<b>11 – 14 months</b>		
	<b>Normal Vital Signs:</b>	Heart Rate: 90-140		Respirations: 24-40		Systolic BP: >70
	<b>Cardioversion:</b>	10 joules		20 joules		20 joules
	<b>Defibrillation:</b>	20 joules		40 joules		40 joules
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>
Adenosine	1mg	<b>0.33mL</b>	Epinephrine <b>1mg/mL NEB</b>	5mg	<b>5mL</b>	
Albuterol NEB	2.5mg	<b>3mL</b>	Fentanyl <b>IV/IM</b>	10mcg	<b>0.2mL</b>	
Amiodarone	50mg	<b>1mL</b>	Fentanyl <b>IN</b>	15mcg	<b>0.3mL</b>	
Atropine	0.2mg	<b>2mL</b>	Glucagon IM	1mg	<b>1mL</b>	
Calcium Chloride	200mg	<b>2mL</b>	Lidocaine 2% IO	5mg	<b>0.25mL</b>	
Dextrose 10% slow IV	50mL	<b>50mL</b>	Midazolam <b>IV/IM/IO</b>	1mg	<b>0.2mL</b>	
Diphenhydramine IV/IM	10mg	<b>0.2mL</b>	Midazolam <b>IN</b>	2mg	<b>0.4mL</b>	
Duodote™	1 dose	<b>NA</b>	Morphine IV/IM/IO	1mg	<b>0.25mL</b>	
Epinephrine <b>Push Dose</b>	10mcg	<b>1mL</b>	Naloxone IV/IM/IN	1mg	<b>1mL</b>	
Epinephrine <b>0.1mg/mL IV</b>	0.1mg	<b>1mL</b>	Normal Saline IV Bolus	200mL	<b>200mL</b>	
Epinephrine <b>1mg/mL IM</b>	0.1mg	<b>0.1mL</b>	Sodium Bicarbonate*	10mEq	<b>10mL</b>	

**PURPLE**

\*dilute 1:1 with NS

<b>11 Kg</b>	<b>Length 78 – 83 cm</b>			<b>15 – 18 months</b>		
	<b>Cardioversion:</b>	11 joules		22 joules		22 joules
	<b>Defibrillation:</b>	22 joules		44 joules		44 joules
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>
	Adenosine	1.1mg	<b>0.37mL</b>	Epinephrine <b>1mg/mL NEB</b>	5mg	<b>5mL</b>
Albuterol NEB	2.5mg	<b>3mL</b>	Fentanyl <b>IV/IM</b>	11mcg	<b>0.22mL</b>	
Amiodarone	55mg	<b>1.1mL</b>	Fentanyl <b>IN</b>	16.5mcg	<b>0.33mL</b>	
Atropine	0.22mg	<b>2.2mL</b>	Glucagon IM	1mg	<b>1mL</b>	
Calcium Chloride	220mg	<b>2.2mL</b>	Lidocaine 2% IO	5.5mg	<b>0.28mL</b>	
Dextrose 10% slow IV	55mL	<b>55mL</b>	Midazolam <b>IV/IM/IO</b>	1.1mg	<b>0.22mL</b>	
Diphenhydramine IV/IM	11mg	<b>0.22mL</b>	Midazolam <b>IN</b>	2.2mg	<b>0.44mL</b>	
Duodote™	1 dose	<b>NA</b>	Morphine IV/IM/IO	1.1mg	<b>0.28mL</b>	
Epinephrine <b>Push Dose</b>	10mcg	<b>1mL</b>	Naloxone IV/IM/IN	1.1mg	<b>1.1mL</b>	
Epinephrine <b>0.1mg/mL IV</b>	0.11mg	<b>1.1mL</b>	Normal Saline IV Bolus	220mL	<b>220mL</b>	
Epinephrine <b>1mg/mL IM</b>	0.11mg	<b>0.11mL</b>	Sodium Bicarbonate	11mEq	<b>11mL</b>	

**PURPLE**

12 Kg	Length 83 – 94.5 cm			19 -35 months		
	<b>Normal Vital Signs:</b>		Heart Rate: 90-140	Respirations: 20-30	Systolic BP: >70	
	<b>Cardioversion:</b>		12 joules	24 joules	24 joules	
	<b>Defibrillation:</b>		24 joules	48 joules	48 joules	
	Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	1.2mg	0.4mL	Epinephrine 1mg/mL NEB	5mg	5mL	
Albuterol NEB	2.5mg	3mL	Fentanyl IV/IM	12mcg	0.24mL	
Amiodarone	60mg	1.2mL	Fentanyl IN	18mcg	0.36mL	
Atropine	0.24mg	2.4mL	Glucagon IM	1mg	1mL	
Calcium Chloride	240mg	2.4mL	Lidocaine 2% IO	6mg	0.3mL	
Dextrose 10% slow IV	60mL	60mL	Midazolam IV/IM/IO	1.2mg	0.24mL	
Diphenhydramine IV/IM	12mg	0.24mL	Midazolam IN	2.4mg	0.48mL	
Duodote™	1 dose	NA	Morphine IV/IM/IO	1.2mg	0.3mL	
Epinephrine Push Dose	10mcg	1mL	Naloxone IV/IM/IN	1.2mg	1.2mL	
Epinephrine 0.1mg/mL IV	0.12mg	1.2mL	Normal Saline IV Bolus	240mL	240mL	
Epinephrine 1mg/mL IM	0.12mg	0.12mL	Sodium Bicarbonate	12mEq	12mL	
13 Kg	<b>Cardioversion:</b>		13 joules	26 joules	26 joules	
	<b>Defibrillation:</b>		26 joules	52 joules	52 joules	
	Medication	Dose	mLs	Medication	Dose	mLs
	Adenosine	1.3mg	0.43mL	Epinephrine 1mg/mL NEB	5mg	5mL
	Albuterol NEB	2.5mg	3mL	Fentanyl IV/IM	13mcg	0.26mL
	Amiodarone	65mg	1.3mL	Fentanyl IN	19.5mcg	0.39mL
	Atropine	0.26mg	2.6mL	Glucagon IM	1mg	1mL
	Calcium Chloride	260mg	2.6mL	Lidocaine 2% IO	6.5mg	0.32mL
	Dextrose 10% slow IV	65mL	65mL	Midazolam IV/IM/IO	1.3mg	0.26mL
	Diphenhydramine IV/IM	13mg	0.26mL	Midazolam IN	2.6mg	0.52mL
	Duodote™	1 dose	NA	Morphine IV/IM/IO	1.3mg	0.32mL
	Epinephrine Push Dose	10mcg	1mL	Naloxone IV/IM/IN	1.3mg	1.3mL
	Epinephrine 0.1mg/mL IV	0.13mg	1.3mL	Normal Saline IV Bolus	260mL	260mL
Epinephrine 1mg/mL IM	0.13mg	0.13mL	Sodium Bicarbonate	13mEq	13mL	
14 Kg	<b>Cardioversion:</b>		14 joules	28 joules	28 joules	
	<b>Defibrillation:</b>		28 joules	56 joules	56 joules	
	Medication	Dose	mLs	Medication	Dose	mLs
	Adenosine	1.4mg	0.47mL	Epinephrine 1mg/mL NEB	5mg	5mL
	Albuterol NEB	2.5mg	3mL	Fentanyl IV/IM	14mcg	0.28mL
	Amiodarone	70mg	1.4mL	Fentanyl IN	21mcg	0.42mL
	Atropine	0.28mg	2.8mL	Glucagon IM	1mg	1mL
	Calcium Chloride	280mg	2.8mL	Lidocaine 2% IO	7mg	0.35mL
	Dextrose 10% slow IV	70mL	70mL	Midazolam IV/IM/IO	1.4mg	0.28mL
	Diphenhydramine IV/IM	14mg	0.28mL	Midazolam IN	2.8mg	0.56mL
	Duodote™	1 dose	NA	Morphine IV/IM/IO	1.4mg	0.35mL
	Epinephrine Push Dose	10mcg	1mL	Naloxone IV/IM/IN	1.4mg	1.4mL
	Epinephrine 0.1mg/mL IV	0.14mg	1.4mL	Normal Saline IV Bolus	280mL	280mL
Epinephrine 1mg/mL IM	0.14mg	0.14mL	Sodium Bicarbonate	14mEq	14mL	

YELLOW



<b>15 Kg</b>	<b>Length 94.5 – 107 cm</b>			<b>3 – 4 years</b>			<b>WHITE</b>
	<b>Normal Vital Signs:</b>		Heart Rate: 80-130	Respirations: 20-30		Systolic BP: >75	
	<b>Cardioversion:</b>		15 joules	30 joules		30 joules	
	<b>Defibrillation:</b>		30 joules	60 joules		60 joules	
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	1.5mg	<b>0.5mL</b>	Fentanyl IN	22.5mcg	<b>0.45mL</b>	
	Albuterol NEB	2.5mg	<b>3mL</b>	Glucagon IM	1mg	<b>1mL</b>	
	Amiodarone	75mg	<b>1.5mL</b>	Glucopaste*	15gm	<b>1 dose</b>	
	Atropine	0.3mg	<b>3mL</b>	Ketorolac slow IV/IO*	7.5mg	<b>0.5mL</b>	
	Calcium Chloride	300mg	<b>3mL</b>	Ketorolac IM*	7.5mg	<b>0.5mL</b>	
	Dextrose 10% slow IV	75mL	<b>75mL</b>	Lidocaine 2% IO	7.5mg	<b>0.38mL</b>	
	Diphenhydramine IV/IM	15mg	<b>0.3mL</b>	Midazolam IV/IM/IO	1.5mg	<b>0.3mL</b>	
	Duodote™	1 dose	<b>NA</b>	Midazolam IN	3mg	<b>0.6mL</b>	
	Epinephrine Push Dose	10mcg	<b>1mL</b>	Morphine IV/IM/IO	1.5mg	<b>0.38mL</b>	

\*4 years or older

<b>16 Kg</b>	<b>Length 94.5 – 107 cm</b>			<b>3 – 4 years</b>			<b>WHITE</b>
	<b>Normal Vital Signs:</b>		Heart Rate: 80-130	Respirations: 20-30		Systolic BP: >75	
	<b>Cardioversion:</b>		16 joules	32 joules		32 joules	
	<b>Defibrillation:</b>		32 joules	64 joules		64 joules	
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	1.6mg	<b>0.53mL</b>	Fentanyl IN	24mcg	<b>0.48mL</b>	
	Albuterol NEB	2.5mg	<b>3mL</b>	Glucagon IM	1mg	<b>1mL</b>	
	Amiodarone	80mg	<b>1.6mL</b>	Glucopaste*	15gm	<b>1 dose</b>	
	Atropine	0.32mg	<b>3.2mL</b>	Ketorolac slow IV/IO*	8mg	<b>0.53mL</b>	
	Calcium Chloride	320mg	<b>3.2mL</b>	Ketorolac IM*	8mg	<b>0.53mL</b>	
	Dextrose 10% slow IV	80mL	<b>80mL</b>	Lidocaine 2% IO	8mg	<b>0.4mL</b>	
	Diphenhydramine IV/IM	16mg	<b>0.32mL</b>	Midazolam IV/IM/IO	1.6mg	<b>0.32mL</b>	
	Duodote™	1 dose	<b>NA</b>	Midazolam IN	3.2mg	<b>0.64mL</b>	
	Epinephrine Push Dose	10mcg	<b>1mL</b>	Morphine IV/IM/IO	1.6mg	<b>0.4mL</b>	

\*4 years or older

<b>17 Kg</b>	<b>Length 94.5 – 107 cm</b>			<b>3 – 4 years</b>			<b>WHITE</b>
	<b>Normal Vital Signs:</b>	Heart Rate: 80-130	Respirations: 20-30	Systolic BP: >75			
	<b>Cardioversion:</b>	17 joules	34 joules	34 joules			
	<b>Defibrillation:</b>	34 joules	68 joules	68 joules			
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	1.7mg	<b>0.57mL</b>	Fentanyl IN	25.5mcg	<b>0.51mL</b>	
	Albuterol NEB	2.5mg	<b>3mL</b>	Glucagon IM	1mg	<b>1mL</b>	
	Amiodarone	85mg	<b>1.7mL</b>	Glucopaste*	15gm	<b>1 dose</b>	
	Atropine	0.34mg	<b>3.4mL</b>	Ketorolac slow IV/IO*	8.5mg	<b>0.57mL</b>	
	Calcium Chloride	340mg	<b>3.4mL</b>	Ketorolac IM*	8.5mg	<b>0.57mL</b>	
	Dextrose 10% slow IV	85mL	<b>85mL</b>	Lidocaine 2% IO	8.5mg	<b>0.42mL</b>	
	Diphenhydramine IV/IM	17mg	<b>0.34mL</b>	Midazolam IV/IM/IO	1.7mg	<b>0.34mL</b>	
	Duodote™	1 dose	<b>NA</b>	Midazolam IN	3.4mg	<b>0.68mL</b>	
	Epinephrine Push Dose	10mcg	<b>1mL</b>	Morphine IV/IM/IO	1.7mg	<b>0.43mL</b>	
	Epinephrine 0.1mg/mL IV	0.17mg	<b>1.7mL</b>	Naloxone IV/IM/IN	1.7mg	<b>1.7mL</b>	
Epinephrine 1mg/mL IM	0.17mg	<b>0.17mL</b>	Normal Saline IV Bolus	340mL	<b>340mL</b>		
Epinephrine 1mg/mL NEB	5mg	<b>5mL</b>	Ondansetron ODT*	4mg	<b>1 tablet</b>		
Fentanyl IV/IM	17mcg	<b>0.34mL</b>	Sodium Bicarbonate	17mEq	<b>17mL</b>		

\*4 years or older

<b>18 Kg</b>	<b>Length 94.5 – 107 cm</b>			<b>3 – 4 years</b>			<b>WHITE</b>
	<b>Normal Vital Signs:</b>	Heart Rate: 80-130	Respirations: 20-30	Systolic BP: >75			
	<b>Cardioversion:</b>	18 joules	36 joules	36 joules			
	<b>Defibrillation:</b>	36 joules	72 joules	72 joules			
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	
	Adenosine	1.8mg	<b>0.6mL</b>	Fentanyl IN	27mcg	<b>0.54mL</b>	
	Albuterol NEB	2.5mg	<b>3mL</b>	Glucagon IM	1mg	<b>1mL</b>	
	Amiodarone	90mg	<b>1.8mL</b>	Glucopaste*	15gm	<b>1 dose</b>	
	Atropine	0.36mg	<b>3.6mL</b>	Ketorolac slow IV/IO*	9mg	<b>0.6mL</b>	
	Calcium Chloride	360mg	<b>3.6mL</b>	Ketorolac IM*	9mg	<b>0.6mL</b>	
	Dextrose 10% slow IV	90mL	<b>90mL</b>	Lidocaine 2% IO	9mg	<b>0.45mL</b>	
	Diphenhydramine IV/IM	18mg	<b>0.36mL</b>	Midazolam IV/IM/IO	1.8mg	<b>0.36mL</b>	
	Duodote™	1 dose	<b>NA</b>	Midazolam IN	3.6mg	<b>0.72mL</b>	
	Epinephrine Push Dose	10mcg	<b>1mL</b>	Morphine IV/IM/IO	1.8mg	<b>0.45mL</b>	
	Epinephrine 0.1mg/mL IV	0.18mg	<b>1.8mL</b>	Naloxone IV/IM/IN	1.8mg	<b>1.8mL</b>	
Epinephrine 1mg/mL IM	0.18mg	<b>0.18mL</b>	Normal Saline IV Bolus	360mL	<b>360mL</b>		
Epinephrine 1mg/mL NEB	5mg	<b>5mL</b>	Ondansetron ODT*	4mg	<b>1 tablet</b>		
Fentanyl IV/IM	18mcg	<b>0.36mL</b>	Sodium Bicarbonate	18mEq	<b>18mL</b>		

\*4 years or older

19 Kg	Length 107 – 119.5 cm			5 – 6 years			
	Normal Vital Signs:	Heart Rate: 70-120		Respirations: 15-30		Systolic BP: >80	
	Cardioversion:	19 joules		38 joules		38 joules	
	Defibrillation:	38 joules		76 joules		76 joules	
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	1.9mg	0.63mL	Fentanyl IN	28.5mcg	0.57mL	
	Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL	
	Amiodarone	95mg	1.9mL	Glucopaste	15gm	1 dose	
	Atropine	0.38mg	3.8mL	Ketorolac slow IV/IO	9.5mg	0.63mL	
	Calcium Chloride	380mg	3.8mL	Ketorolac IM	9.5mg	0.63mL	
	Dextrose 10% slow IV	95mL	95mL	Lidocaine 2% IO	9.5mg	0.48mL	
	Diphenhydramine IV/IM	19mg	0.38mL	Midazolam IV/IM/IO	1.9mg	0.38mL	
	Duodote™	1 dose	NA	Midazolam IN	3.8mg	0.76mL	
	Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	1.9mg	0.48mL	
	Epinephrine 0.1mg/mL IV	0.19mg	1.9mL	Naloxone IV/IM/IN	1.9mg	1.9mL	
	Epinephrine 1mg/mL IM	0.19mg	0.19mL	Normal Saline IV Bolus	380mL	380mL	
	Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
	Fentanyl IV/IM	19mcg	0.38mL	Sodium Bicarbonate	19mEq	19mL	
20 Kg	Cardioversion:	20 joules		40 joules		40 joules	
	Defibrillation:	40 joules		80 joules		80 joules	
		Medication	Dose	mLs	Medication	Dose	mLs
		Adenosine	2mg	0.67mL	Fentanyl IN	30mcg	0.6mL
		Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL
		Amiodarone	100mg	2mL	Glucopaste	15gm	1 dose
		Atropine	0.4mg	4mL	Ketorolac slow IV/IO	10mg	0.67mL
		Calcium Chloride	400mg	4mL	Ketorolac IM	10mg	0.67mL
		Dextrose 10% slow IV	100mL	100mL	Lidocaine 2% IO	10mg	0.5mL
		Diphenhydramine IV/IM	20mg	0.4mL	Midazolam IV/IM/IO	2mg	0.4mL
		Duodote™	1 dose	NA	Midazolam IN	4mg	0.8mL
		Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	2mg	0.5mL
		Epinephrine 0.1mg/mL IV	0.2mg	2mL	Naloxone IV/IM/IN	2mg	2mL
		Epinephrine 1mg/mL IM	0.2mg	0.2mL	Normal Saline IV Bolus	400mL	400mL
	Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
	Fentanyl IV/IM	20mcg	0.4mL	Sodium Bicarbonate	20mEq	20mL	
22 Kg	Cardioversion:	22 joules		44 joules		44 joules	
	Defibrillation:	44 joules		88 joules		88 joules	
		Medication	Dose	mLs	Medication	Dose	mLs
		Adenosine	2.2mg	0.73mL	Fentanyl IN	33mcg	0.66mL
		Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL
		Amiodarone	110mg	2.2mL	Glucopaste	15gm	1 dose
		Atropine	0.44mg	4.4mL	Ketorolac slow IV/IO	11mg	0.73mL
		Calcium Chloride	440mg	4.4mL	Ketorolac IM	11mg	0.73mL
		Dextrose 10% slow IV	110mL	110mL	Lidocaine 2% IO	11mg	0.55mL
		Diphenhydramine IV/IM	22mg	0.44mL	Midazolam IV/IM/IO	2.2mg	0.44mL
		Duodote™	1 dose	NA	Midazolam IN	4.4mg	0.88mL
		Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	2.2mg	0.55mL
		Epinephrine 0.1mg/mL IV	0.22mg	2.2mL	Naloxone IV/IM/IN	2mg	2mL
		Epinephrine 1mg/mL IM	0.22mg	0.22mL	Normal Saline IV Bolus	440mL	440mL
	Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
	Fentanyl IV/IM	22mcg	0.44mL	Sodium Bicarbonate	22mEq	22mL	

BLUE

24 Kg	Length 119 – 129 cm			7 – 9 years		
	Normal Vital Signs:		Heart Rate: 70-110	Respirations: 15-30		Systolic BP: >80
	Cardioversion:		24 joules	48 joules		48 joules
	Defibrillation:		48 joules	96 joules		96 joules
	Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	2.4mg	0.8mL	Fentanyl IN	36mcg	0.72mL	
Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL	
Amiodarone	120mg	2.4mL	Glucopaste	15gm	1 dose	
Atropine	0.48mg	4.8mL	Ketorolac slow IV/IO	12mg	0.8mL	
Calcium Chloride	480mg	4.8mL	Ketorolac IM	12mg	0.8mL	
Dextrose 10% slow IV	120mL	120mL	Lidocaine 2% IO	12mg	0.6mL	
Diphenhydramine IV/IM	24mg	0.48mL	Midazolam IV/IM/IO	2.4mg	0.48mL	
Duodote™	2 doses	NA	Midazolam IN	4.8mg	0.96mL	
Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	2.4mg	0.6mL	
Epinephrine 0.1mg/mL IV	0.24mg	2.4mL	Naloxone IV/IM/IN	2mg	2mL	
Epinephrine 1mg/mL IM	0.24mg	0.24mL	Normal Saline IV Bolus	480mL	480mL	
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
Fentanyl IV/IM	24mcg	0.48mL	Sodium Bicarbonate	24mEq	24mL	
26 Kg	Cardioversion:		26 joules	52 joules		52 joules
	Defibrillation:		52 joules	104 joules		104 joules
	Medication	Dose	mLs	Medication	Dose	mLs
	Adenosine	2.6mg	0.87mL	Fentanyl IN	39mcg	0.78mL
	Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL
	Amiodarone	130mg	2.6mL	Glucopaste	15gm	1 dose
	Atropine	0.5mg	5mL	Ketorolac slow IV/IO	13mg	0.87mL
	Calcium Chloride	520mg	5.2mL	Ketorolac IM	13mg	0.87mL
	Dextrose 10% slow IV	130mL	130mL	Lidocaine 2% IO	13mg	0.65mL
	Diphenhydramine IV/IM	26mg	0.52mL	Midazolam IV/IM/IO	2.6mg	0.52mL
	Duodote™	2 doses	NA	Midazolam IN	5mg	1mL
	Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	2.6mg	0.65mL
	Epinephrine 0.1mg/mL IV	0.26mg	2.6mL	Naloxone IV/IM/IN	2mg	2mL
	Epinephrine 1mg/mL IM	0.26mg	0.26mL	Normal Saline IV Bolus	520mL	520mL
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
Fentanyl IV/IM	26mcg	0.52mL	Sodium Bicarbonate	26mEq	26mL	
28 Kg	Cardioversion:		28 joules	56 joules		56 joules
	Defibrillation:		56 joules	112 joules		112 joules
	Medication	Dose	mLs	Medication	Dose	mLs
	Adenosine	2.8mg	0.93mL	Fentanyl IN	42mcg	0.84mL
	Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL
	Amiodarone	140mg	2.8mL	Glucopaste	15gm	1 dose
	Atropine	0.5mg	5mL	Ketorolac slow IV/IO	14mg	0.93mL
	Calcium Chloride	560mg	5.6mL	Ketorolac IM	14mg	0.93mL
	Dextrose 10% slow IV	140mL	140mL	Lidocaine 2% IO	14mg	0.7mL
	Diphenhydramine IV/IM	28mg	0.56mL	Midazolam IV/IM/IO	2.8mg	0.56mL
	Duodote™	2 doses	NA	Midazolam IN	5mg	1mL
	Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	2.8mg	0.7mL
	Epinephrine 0.1mg/mL IV	0.28mg	2.8mL	Naloxone IV/IM/IN	2mg	2mL
	Epinephrine 1mg/mL IM	0.28mg	0.28mL	Normal Saline IV Bolus	560mL	560mL
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
Fentanyl IV/IM	28mcg	0.56mL	Sodium Bicarbonate	28mEq	28mL	

ORANGE

30 Kg	Length 129 – 141.5 cm			10 – 12 years		
	Normal Vital Signs:		Heart Rate: 60-100	Respirations: 15-20	Systolic BP: >90	
	Cardioversion:		30 joules	60 joules	60 joules	
	Defibrillation:		60 joules	120 joules	120 joules	
	Medication	Dose	mLs	Medication	Dose	mLs
	Adenosine	3mg	1mL	Fentanyl IN	45mcg	0.9mL
	Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL
	Amiodarone	150mg	3mL	Glucopaste	15gm	1 dose
	Atropine	0.5mg	5mL	Ketorolac slow IV/IO	15mg	1mL
	Calcium Chloride	600mg	6mL	Ketorolac IM	15mg	1mL
Dextrose 10% slow IV	150mL	150mL	Lidocaine 2% IO	15mg	0.75mL	
Diphenhydramine IV/IM	30mg	0.6mL	Midazolam IV/IM/IO	3mg	0.6mL	
Duodote™	2 doses	NA	Midazolam IN	5mg	1mL	
Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	3mg	0.75mL	
Epinephrine 0.1mg/mL IV	0.3mg	3mL	Naloxone IV/IM/IN	2mg	2mL	
Epinephrine 1mg/mL IM	0.3mg	0.3mL	Normal Saline IV Bolus	600mL	600mL	
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
Fentanyl IV/IM	30mcg	0.6mL	Sodium Bicarbonate	30mEq	30mL	

GREEN

32 Kg	Length 129 – 141.5 cm			10 – 12 years		
	Normal Vital Signs:		Heart Rate: 60-100	Respirations: 15-20	Systolic BP: >90	
	Cardioversion:		32 joules	64 joules	64 joules	
	Defibrillation:		64 joules	128 joules	128 joules	
	Medication	Dose	mLs	Medication	Dose	mLs
	Adenosine	3.2mg	1.07mL	Fentanyl IN	48mcg	0.96mL
	Albuterol NEB	5mg	6mL	Glucagon IM	1mg	1mL
	Amiodarone	160mg	3.2mL	Glucopaste	15gm	1 dose
	Atropine	0.5mg	5mL	Ketorolac slow IV/IO	15mg	1mL
	Calcium Chloride	640mg	6.4mL	Ketorolac IM	15mg	1mL
Dextrose 10% slow IV	160mL	160mL	Lidocaine 2% IO	16mg	0.8mL	
Diphenhydramine IV/IM	32mg	0.64mL	Midazolam IV/IM/IO	3.2mg	0.64mL	
Duodote™	2 doses	NA	Midazolam IN	5mg	1mL	
Epinephrine Push Dose	10mcg	1mL	Morphine IV/IM/IO	3.2mg	0.8mL	
Epinephrine 0.1mg/mL IV	0.32mg	3.2mL	Naloxone IV/IM/IN	2mg	2mL	
Epinephrine 1mg/mL IM	0.32mg	0.32mL	Normal Saline IV Bolus	640mL	640mL	
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT	4mg	1 tablet	
Fentanyl IV/IM	32mcg	0.64mL	Sodium Bicarbonate	32mEq	32mL	

GREEN

<b>34 Kg</b>	<b>Length 129 – 141.5 cm</b>			<b>10 – 12 years</b>			<b>GREEN</b>		
	<b>Normal Vital Signs:</b>		Heart Rate: 60-100	Respirations: 15-20		Systolic BP: >90			
	<b>Cardioversion:</b>		34 joules	68 joules		68 joules			
	<b>Defibrillation:</b>		68 joules	136 joules		136 joules			
	<b>Medication</b>		<b>Dose</b>	<b>mLs</b>	<b>Medication</b>			<b>Dose</b>	<b>mLs</b>
	Adenosine		3.4mg	<b>1.13mL</b>	Fentanyl <b>IN</b>			50mcg	<b>1mL</b>
	Albuterol NEB		5mg	<b>6mL</b>	Glucagon IM			1mg	<b>1mL</b>
	Amiodarone		170mg	<b>3.4mL</b>	Glucopaste			15gm	<b>1 dose</b>
	Atropine		0.5mg	<b>5mL</b>	Ketorolac slow <b>IV/IO</b>			15mg	<b>1mL</b>
	Calcium Chloride		680mg	<b>6.8mL</b>	Ketorolac <b>IM</b>			15mg	<b>1mL</b>
	Dextrose 10% slow IV		170mL	<b>170mL</b>	Lidocaine 2% IO			17mg	<b>0.85mL</b>
	Diphenhydramine IV/IM		34mg	<b>0.68mL</b>	Midazolam <b>IV/IM/IO</b>			3.4mg	<b>0.68mL</b>
	Duodote™		2 doses	<b>NA</b>	Midazolam <b>IN</b>			5mg	<b>1mL</b>
	Epinephrine <b>Push Dose</b>		10mcg	<b>1mL</b>	Morphine IV/IM/IO			3.4mg	<b>0.85mL</b>

<b>36 Kg</b>	<b>Length 129 – 141.5 cm</b>			<b>10 – 12 years</b>			<b>GREEN</b>		
	<b>Normal Vital Signs:</b>		Heart Rate: 60-100	Respirations: 15-20		Systolic BP: >90			
	<b>Cardioversion:</b>		36 joules	72 joules		72 joules			
	<b>Defibrillation:</b>		72 joules	144 joules		144 joules			
	<b>Medication</b>		<b>Dose</b>	<b>mLs</b>	<b>Medication</b>			<b>Dose</b>	<b>mLs</b>
	Adenosine		3.6mg	<b>1.2mL</b>	Fentanyl <b>IN</b>			50mcg	<b>1mL</b>
	Albuterol NEB		5mg	<b>6mL</b>	Glucagon IM			1mg	<b>1mL</b>
	Amiodarone		180mg	<b>3.6mL</b>	Glucopaste			15gm	<b>1 dose</b>
	Atropine		0.5mg	<b>5mL</b>	Ketorolac slow <b>IV/IO</b>			15mg	<b>1mL</b>
	Calcium Chloride		720mg	<b>7.2mL</b>	Ketorolac <b>IM</b>			15mg	<b>1mL</b>
	Dextrose 10% slow IV		180mL	<b>180mL</b>	Lidocaine 2% IO			18mg	<b>0.9mL</b>
	Diphenhydramine IV/IM		36mg	<b>0.72mL</b>	Midazolam <b>IV/IM/IO</b>			3.6mg	<b>0.72mL</b>
	Duodote™		2 doses	<b>NA</b>	Midazolam <b>IN</b>			5mg	<b>1mL</b>
	Epinephrine <b>Push Dose</b>		10mcg	<b>1mL</b>	Morphine IV/IM/IO			3.6mg	<b>0.9mL</b>

<b>Longer than the Length-Based Resuscitation Tape</b>						
<b>ADULT</b>	<b>Normal Vital Signs:</b>	Heart Rate: 50-99		Respirations: 12-20		Systolic BP: >100
	<b>Cardioversion:</b>	120 joules		150 joules		200 joules
	<b>Defibrillation:</b>	200 joules		200 joules		200 joules
	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>	<b>Medication</b>	<b>Dose</b>	<b>mLs</b>
	Adenosine	6 or 12mg	<b>2 or 4mL</b>	Glucagon IM	1mg	<b>1mL</b>
	Albuterol NEB	5mg	<b>6mL</b>	Glucopaste	15gm	<b>1 dose</b>
	Amiodarone	300mg	<b>6mL</b>	Ketorolac slow IV/IO	15mg	<b>1mL</b>
	Aspirin	325mg	<b>1 tablet</b>	Ketorolac IM	30mg	<b>2mL</b>
	Atropine	1mg	<b>10mL</b>	Lidocaine 2% IO	40mg	<b>2mL</b>
	Calcium Chloride	1gm	<b>10mL</b>	Midazolam IV/IM//IN/IO <sup>3</sup>	2-5mg	<b>0.4-1mL</b>
	Dextrose 10% slow IV <sup>1</sup>	125- 250mL	<b>125- 250mL</b>	Morphine IV/IM/IO <sup>4</sup>	4mg	<b>1mL</b>
	Diphenhydramine IV/IM	50mg	<b>1mL</b>	Naloxone IV	0.8-2mg	<b>0.8-2mL</b>
Duodote™	1-3 doses	<b>NA</b>	Naloxone IM	2mg	<b>2mL</b>	
Epinephrine <b>Push Dose</b>	10mcg	<b>1mL</b>	Naloxone IN	2-4mg	<b>2-4mL</b>	
Epinephrine <b>0.1mg/mL IV</b>	1mg	<b>10mL</b>	Nitroglycerin <sup>5</sup>	0.4mg	<b>1 dose</b>	
Epinephrine <b>1mg/mL IM</b>	0.5mg	<b>0.5mL</b>	Normal Saline IV Bolus	1L	<b>1L</b>	
Epinephrine <b>1mg/mL NEB</b>	5mg	<b>5mL</b>	Ondansetron ODT	4mg	<b>1 tablet</b>	
Fentanyl IV/IM/IN <sup>2</sup>	50mcg	<b>1mL</b>	Ondansetron IV/IM <sup>6</sup>	4mg	<b>2mL</b>	
			Sodium Bicarbonate	50mEq	<b>50mL</b>	

**BLACK**

**NOTES:**

<sup>1</sup> Dextrose: **125mL IV** and reassess, if patient remains symptomatic, repeat x1 for a total of 250mL

<sup>2</sup> Fentanyl: **50mcg (1mL) slow IV push or IM/IN**, repeat every 5min prn, maximum total dose prior to Base Contact 150mcg

<sup>3</sup> Midazolam:

Agitated Delirium / Behavioral / Psychiatric Crisis

**5mg (1mL) IM/IN/IV**, repeat x1 in 5 min prn, maximum total dose prior to Base contact 10mg for Agitated Delirium (Psychiatric Crisis requires Base order for any)

Cardiac Dysrhythmia - sedation prior to synchronized cardioversion / transcutaneous pacing

**2mg (0.4mL) slow IV/IO push/IM/IN**, may repeat ever 5 min, maximum total dose prior to Base contact 6mg

Seizure - Active

**5mg (1mL) IM/IN/IV**, repeat x1 in 2 min prn, maximum total dose prior to Base contact 10mg

<sup>4</sup> Morphine: **4mg (1mL) slow IV/IO push or IM**, repeat every 5min prn, maximum total dose prior to Base contact 12mg

<sup>5</sup> Nitroglycerin

Chest Pain – Suspected Cardiac / Chest Pain – STEMI

**0.4 mg SL** prn, repeat every 5min prn x2, total 3 doses, hold if SBP < 100mmHg or patient has taken sexually enhancing medication within 48 hours

Pulmonary Edema / CHF

**0.4mg SL**, for SBP ≥ 100mmHg; **0.8mg SL**, for SBP ≥ 150mmHg; **1.2mg SL**, for SBP ≥ 200mmHg

Repeat every 3-5 min prn x2 for persistent dyspnea, assess blood pressure prior to each administration and determine subsequent dose base on SBP as listed above. Hold if SBP

<sup>6</sup> Ondansetron IV/IM – only for 15 years of age or older