## 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<sup>™</sup>) 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.

EFFECTIVE: 01-01-98 REVISED: 07-01-25 SUPERSEDES: 04-01-25

### **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	5mg	
Albuterol MDI	90 mcg/puff	2 puffs <4 years; 4 puffs ≥4 years	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	
Diphenhydramine	50mg/mL	1mg/kg	50mg	
DuoDote™ (Pralidoxime Chloride)	Auto injector	1 DuoDote™	3 DuoDotes™	
Epinephrine (Push Dose) 0.1mg/mL IV 0.01mg/mL		0.1mL/kg every 1-5 mins	10mcg (1 mL)	

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.

Epinephrine <b>0.1mg/mL</b> IV	0.1mg/mL	0.01mg/kg	1mg
Epinephrine 1mg/mL IM	1mg/mL	0.01mg/kg	0.5mg
Epinephrine 1mg/mL Nebulized (NEB)	1mg/mL	2.5mg <1 year; 5mg ≥1 year	5mg (5mL)
Fentanyl IV/IM	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	1mg
Glucopaste (4 years or older)	15gm	15gm	15gm
Hydroxocobalamin	25mg/mL	70mg/kg	5g
Ketorolac slow IV/IO push	15mg/mL	0.5mg/kg	15mg
Ketorolac IM (Adult)	15mg/mL	1mg/kg	30mg
Ketorolac IM (Pediatric)	15mg/mL	0.5mg/kg ≥4 years	15mg
Lidocaine 2% (IO ONLY)	20mg/mL	0.5 mg/kg	40mg
Midazolam all indications IV/IO	5mg/mL	0.1mg/kg	5mg

REVISED: 07-01-25 PAGE 2 OF 19

MEDICATION	FORMULATION	DOSAGE	Maximum Single Dose	
Midazolam Agitation/Sedation IN/IM	5mg/mL	0.2mg/kg	5 or 10mg	
Midazolam Seizure 0-11 mo IN/IM	5mg/mL	0.2mg/kg	2.5mg	
Midazolam Seizure ≥12mo <b>IN/IM</b>	5mg/mL	PediDOSE* 12-16 months: 1.25mg 17months-5 years: 2.5mg 6-11 years: 5mg ≥12 years: 10mg	1.25mg, 2.5mg, 5mg, or 10mg depending on age	
Morphine Sulfate IV/IM/IO	4mg/mL	0.1mg/kg	4mg	
Naloxone	1mg/mL	0.1mg/kg	2mg-4mg	
Normal Saline	0.9% Na Cl	20mL/kg	1L	
Nitroglycerin SL (adults only)	0.4mg	0.4mg	1.2mg	
Olanzapine ODT	10mg	10mg	10mg	
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	
Tranexamic Acid (TXA)	1gm/10mL	1gm/10mL	1gm in 50 or 100mL infused over 10 minutes	

## \*PediDOSE Midazolam IN/IM only - dosing chart for treatment of seizures

Age	0-11	12-16	17 months –	6-11	≥12
	months	months	5 years	years	years
Midazolam Dose IN/IM	0.2mg/kg	1.25 mg	2.5 mg	5 mg	10 mg
Volume IN/IM	See color code	0.25 mL	0.5 mL	1mL	2mL
If age is unknown					

For patients with <u>severe</u> growth restriction (e.g., genetic disorder, severe malnutrition), administer weight-based dose per color code.

REVISED: 07-01-25 PAGE 3 OF 19

# **COLOR CODE DRUG DOSES:**

	Length 47 - 59.5 cm	1		Less than 3 months				
	Normal Vital Signs: Heart Rate: 100-18		e: 100-180	Respirations: 30-60	Systolic	<b>BP:</b> >60		
	Cardioversion:	3 joules		6 joules	6 joule:	S		
	Defibrillation:	6 joules		12 joules	12 joul	es		
	Supraglottic Airway:	igel	Size 1	No gastric suction catheter				
	Medication	Dose	mLs	Medication		Dose	mLs	
	Adenosine	0.3mg	0.1mL	Fentanyl <b>IV/IM</b>	3	3mcg	0.06mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	4	4.5mcg	0.09mL	
Q	Amiodarone	15mg	0.3mL	Glucagon IM	(	0.5mg	0.5mL	
	Atropine	0.06mg	0.6mL	Hydroxocobalamin IV/IO**	2	210mg	8.4mL	GRE
	Calcium Chloride*	60mg	0.6mL	Lidocaine 2% IO		1.5mg	0.08mL	(5
	Dextrose 10% slow IV	15mL	15mL	Midazolam Agitation/Sedation IV	//IO (	0.3mg	0.06mL	
	Diphenhydramine IV/IM	3mg	0.06mL	Midazolam Agitation/Sedation IN	I/IM (	0.6mg	0.12mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0- 11mo <b>IN/II</b>	M (	0.6mg	0.12mL	
	Epinephrine <b>Push Dose</b>	3mcg	0.3mL	Morphine IV/IM/IO	(	0.3mg	0.08mL	
	Epinephrine 0.1mg/mL IV	0.03mg	0.3mL	Naloxone IV/IM/IN	(	0.3mg	0.3mL	
	Epinephrine 1mg/mL IM	0.03mg	0.03mL	Normal Saline IV Bolus	(	60mL	60mL	
	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	Sodium Bicarbonate*	3	3mEq	3mL	
							1:1 with NS	
				**Re	constitu	te 5g vial i	n 200ml NS	

	Length 47 – 59.5 cm	n		Less than 3 months			
	Normal Vital Signs:	Heart Rate	e: 100-180	Respirations: 30-60	Systolic BP: >60	)	
	Cardioversion:	4 joules		8 joules	8 joules		
	Defibrillation:	8 joules		16 joules	16 joules		
	Supraglottic Airway:	igel	Size 1	No gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	0.4mg	0.13mL	Fentanyl <b>IV/IM</b>	4mcg	0.08mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	6mcg	0.12mL	
<b>K</b> g	Amiodarone	20mg	0.4mL	Glucagon IM	0.5mg	0.5mL	<b>-</b>
<b>Y</b>	Atropine	0.08mg	0.8mL	Hydroxocobalamin IV/IO**	280mg	11.2mL	GRE
	Calcium Chloride*	80mg	0.8mL	Lidocaine 2% IO	2mg	0.1mL	(5
	Dextrose 10% slow IV	20mL	20mL	Midazolam Agitation/Sedation IV/	<b>/IO</b> 0.4mg	0.08mL	
	Diphenhydramine IV/IM	4mg	0.08mL	Midazolam Agitation/Sedation IN,	<b>/IM</b> 0.8mg	0.16mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo IN/IM	1 0.8mg	0.16mL	
	Epinephrine <b>Push Dose</b>	4mcg	0.4mL	Morphine IV/IM/IO	0.4mg	0.1mL	
	Epinephrine <b>0.1mg/mL IV</b>	0.04mg	0.4mL	Naloxone IV/IM/IN	0.4mg	0.4mL	
	Epinephrine 1mg/mL IM	0.04mg	0.04mL	Normal Saline IV Bolus	80mL	80mL	
	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	Sodium Bicarbonate*	4mEq	4mL	
				*Dilute 1:1 with NS			
				**Re	econstitute 5g vial	in 200ml NS	

REVISED: 07-01-25 PAGE 4 OF 19

	Length 47 - 59.5 cr	n		Less than 3 months			
	Normal Vital Signs:	Heart Rate	: 100-180	Respirations: 30-60	Systolic BP: >6	0	
	Cardioversion:	5 joules		10 joules	10 joules		
	Defibrillation:	10 joules		20 joules	20 joules		
	Supraglottic Airway:	igel S	Size 1	No gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	0.5mg	0.17mL	Fentanyl <b>IV/IM</b>	5mcg	0.1mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	7.5mcg	0.15mL	
0	Amiodarone	25mg	0.5mL	Glucagon IM	0.5mg	0.5mL	<u> </u>
	Atropine	0.1mg	1mL	Hydroxocobalamin IV/IO**	350mg	14mL	GRE
	Calcium Chloride*	100mg	1mL	Lidocaine 2% IO	2.5mg	0.12mL	(5)
	Dextrose 10% slow IV	25mL	25mL	Midazolam Agitation/Sedation IV/	<b>10</b> 0.5mg	0.1mL	
	Diphenhydramine IV/IM	5mg	0.1mL	Midazolam Agitation/Sedation IN/	<b>'IM</b> 1mg	0.2mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo <b>IN/IM</b>	1mg	0.2mL	
	Epinephrine <b>Push Dose</b>	5mcg	0.5mL	Morphine IV/IM/IO	0.5mg	0.12mL	
	Epinephrine 0.1mg/mL IV	0.05mg	0.5mL	Naloxone IV/IM/IN	0.5mg	0.5mL	
	Epinephrine 1mg/mL IM	0.05mg	0.05mL	Normal Saline IV Bolus	100mL	100mL	
	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	Sodium Bicarbonate*	5mEq	5mL	
						e 1:1 with NS	
				**Re	constitute 5g vial	in 200ml NS	

REVISED: 07-01-25 PAGE 5 OF 19

	Length 59.5 – 62 cm	1		3 – 4 months			
	Normal Vital Signs:	Heart Rate	e: 100-160	Respirations: 25-40 Sys	Systolic BP: >70		
	Cardioversion:	6 joules		12 joules 12	joules		
	Defibrillation:	12 joules		24 joules 24	joules		
	Supraglottic Airway:	igel	Size 1.5	10 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	0.6mg	0.2mL	Fentanyl <b>IV/IM</b>	6mcg	0.12mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	9mcg	0.18mL	
po	Amiodarone	30mg	0.6mL	Glucagon IM	0.5mg	0.5mL	$\succeq$
$\succeq$	Atropine	0.12mg	1.2mL	Hydroxocobalamin IV/IO**	420mg	16.8mL	2
9	Calcium Chloride*	120mg	1.2mL	Lidocaine 2% IO	3mg	0.15mL	
	Dextrose 10% slow IV	30mL	30mL	Midazolam Agitation/Sedation IV/IC	<b>0</b> .6mg	0.12mL	
	Diphenhydramine IV/IM	6mg	0.12mL	Midazolam Agitation/Sedation IN/II	<b>d</b> 1.2mg	0.24mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo IN/IM	1.2mg	0.24mL	
	Epinephrine <b>Push Dose</b>	6mcg	0.6mL	Morphine IV/IM/IO	0.6mg	0.15mL	
	Epinephrine <b>0.1mg/mL IV</b>	0.06mg	0.6mL	Naloxone IV/IM/IN	0.6mg	0.6mL	
	Epinephrine 1mg/mL IM	0.06mg	0.06mL	Normal Saline IV Bolus	120mL	120mL	
	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	Sodium Bicarbonate*	6mEq	6mL	
				*Dilute 1:1 with NS  **Reconstitute 5g vial in 200ml NS			

	Length 62 – 66 cm			5 – 6 months			
	Normal Vital Signs:	Heart Rat	<b>e:</b> 100-160	Respirations: 25-40 Sy	stolic BP: >70	)	
	Cardioversion:	7 joules		14 joules 14	joules		
	Defibrillation:	14 joules		28 joules 28	joules		
	Supraglottic Airway:	igel	Size 1.5	10 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	0.7mg	0.23mL	Fentanyl <b>IV/IM</b>	7mcg	0.14mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	10.5mcg	0.21mL	
Kg	Amiodarone	35mg	0.7mL	Glucagon IM	0.5mg	0.5mL	$\succeq$
<b>Y</b>	Atropine	0.14mg	1.4mL	Hydroxocobalamin IV/IO**	490mg	19.6mL	PINK
_	Calcium Chloride*	140mg	1.4mL	Lidocaine 2% IO	3.5mg	0.18mL	
	Dextrose 10% slow IV	35mL	35mL	Midazolam Agitation/Sedation IV/IC	0.7mg	0.14mL	
	Diphenhydramine IV/IM	7mg	0.14mL	Midazolam Agitation/Sedation IN/IN	<b>/</b> 1.4mg	0.28mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo <b>IN/IM</b>	1.4mg	0.28mL	
	Epinephrine <b>Push Dose</b>	7mcg	0.7mL	Morphine IV/IM/IO	0.7mg	0.18mL	
	Epinephrine 0.1mg/mL IV	0.07mg	0.7mL	Naloxone IV/IM/IN	0.7mg	0.7mL	
	Epinephrine 1mg/mL IM	0.07mg	0.07mL	Normal Saline IV Bolus	140mL	140mL	
	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	Sodium Bicarbonate*	7mEq	7mL	
						1:1 with NS	
				**Reco	nstitute 5g vial i	n 200ml NS	

REVISED: 07-01-25 PAGE 6 OF 19

	Length 66 - 69.5 cr	n		7 - 8 months			
	Normal Vital Signs:	Heart Rat	<b>e:</b> 100-160	Respirations: 20-40	Systolic BP: >70		
	Cardioversion:	8 joules		16 joules	16 joules		
	Defibrillation:	16 joules		32 joules	32 joules		
	Supraglottic Airway:	igel	Size 1.5	10 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	0.8mg	0.27mL	Fentanyl <b>IV/IM</b>	8mcg	0.16mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	12mcg	0.24mL	
	Amiodarone	40mg	0.8mL	Glucagon IM	0.5mg	0.5mL	
Kg	Atropine	0.16mg	1.6mL	Hydroxocobalamin IV/IO**	560mg	22.4mL	
¥	Calcium Chloride*	160mg	1.6mL	Lidocaine 2% IO	4mg	0.2mL	ш
$\infty$	Dextrose 10% slow IV	40mL	40mL	Midazolam Agitation/Sedation IV	<b>/IO</b> 0.8mg	0.16mL	
	Diphenhydramine IV/IM	8mg	0.16mL	Midazolam Agitation/SedationIN/	<b>/IM</b> 1.6mg	0.32mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo IN/IM	<b>1</b> 1.6mg	0.32mL	
	Epinephrine <b>Push Dose</b>	8mcg	0.8mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDOSE	-	
	Epinephrine <b>0.1mg/mL IV</b>	0.08mg	0.8mL	Morphine IV/IM/IO	0.8mg	0.2mL	
	Epinephrine <b>1mg/mL IM</b>	0.08mg	0.08mL	Naloxone IV/IM/IN	0.8mg	0.8mL	
	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	Normal Saline IV Bolus	160mL	160mL	
				Sodium Bicarbonate*	8mEq	8mL	
				**R	*Dilute econstitute 5g vial	e 1:1 with NS in 200ml NS	

Length 69 – 73 cm				9 – 10 months			
	Normal Vital Signs:	Heart Rat	e: 100-160	Respirations: 20-40	Systolic BP: >70		
	Cardioversion:	9 joules		18 joules	l8 joules		
	Defibrillation:	18 joules		36 joules	36 joules		
	Supraglottic Airway:	igel	Size 1.5	10 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	0.9mg	0.3mL	Fentanyl <b>IV/IM</b>	9mcg	0.18mL	
	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	13.5mcg	0.27mL	
	Amiodarone	45mg	0.9mL	Glucagon IM	0.5mg	0.5mL	
ρΰ	Atropine	0.18mg	1.8mL	Hydroxocobalamin IV/IO**	630mg	25.2mL	
¥	Calcium Chloride*	180mg	1.8mL	Lidocaine 2% IO	4.5mg	0.22mL	ш
6	Dextrose 10% slow IV	45mL	45mL	Midazolam Agitation/Sedation IV,	<b>/IO</b> 0.9mg	0.18mL	~
	Diphenhydramine IV/IM	9mg	0.18mL	Midazolam Agitation/Sedation <b>IN/</b>	<b>IM</b> 1.8mg	0.36mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo <b>IN/IM</b>	1.8mg	0.36mL	
	Epinephrine <b>Push Dose</b>	9mcg	0.9mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDOSE	-	
	Epinephrine <b>0.1mg/mL IV</b>	0.09mg	0.9mL	Morphine IV/IM/IO	0.9mg	0.22mL	
	Epinephrine <b>1mg/mL IM</b>	0.09mg	0.09mL	Naloxone IV/IM/IN	0.9mg	0.9mL	
	Epinephrine 1mg/mL NEB	2.5mg	2.5mL	Normal Saline IV Bolus	180mL	180mL	
				Sodium Bicarbonate*	9mEq	9mL	
				**Re	*Dilute econstitute 5g vial i	1:1 with NS n 200ml NS	

REVISED: 07-01-25 PAGE 7 OF 19

	Length 73 – 78 cm			11 – 14 months			
	Normal Vital Signs:	Heart Rate	e: 90-140	Respirations: 24-40	Systolic BP: >70		
	Cardioversion:	10 joules		20 joules	20 joules		
	Defibrillation:	20 joules		40 joules	10 joules		
	Supraglottic Airway:	igel	Size 1.5	10 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	1mg	0.33mL	Fentanyl <b>IV/IM</b>	10mcg	0.2mL	E
þD	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	15mcg	0.3mL	
<b>Y</b>	Amiodarone	50mg	1mL	Glucagon IM	1mg	1mL	URPI
0	Atropine	0.2mg	2mL	Hydroxocobalamin IV/IO**	700mg	28mL	
7	Calcium Chloride	200mg	2mL	Lidocaine 2% IO	5mg	0.25mL	
	Dextrose 10% slow IV	50mL	50mL	Midazolam Agitation/Sedation IV/I	<b>O</b> 1mg	0.2mL	<u> </u>
	Diphenhydramine IV/IM	10mg	0.2mL	Midazolam Agitation/Sedation IN/	<b>M</b> 2mg	0.4mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo <b>IN/IM</b>	2mg	0.4mL	
	Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDOSE	-	
	Epinephrine <b>0.1mg/mL IV</b>	0.1mg	1mL	Morphine IV/IM/IO	1mg	0.25mL	
	Epinephrine 1mg/mL IM	0.1mg	0.1mL	Naloxone IV/IM/IN	1mg	1mL	
	Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	200mL	200mL	
				Sodium Bicarbonate*	10mEq	10mL	

\*Dilute 1:1 with NS

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

	Length 78 – 83 cm			15 – 18 months			
	Normal Vital Signs:	Heart Rate	e: 90-140	Respirations: 24-40 Sy	stolic BP: >70	)	
	Cardioversion:	11 joules		22 joules 22	! joules		
	Defibrillation:	22 joules		44 joules 44	joules		
	Supraglottic Airway:	igel	Size 1.5	10 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	1.1mg	0.37mL	Fentanyl <b>IV/IM</b>	11mcg	0.22mL	ш
<b>b</b> .0	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	16.5mcg	0.33mL	
¥	Amiodarone	55mg	1.1mL	Glucagon IM	1mg	1mL	RP
$\vdash$	Atropine	0.22mg	2.2mL	Hydroxocobalamin IV/IO**	770mg	30.8mL	
$\ddot{\leftarrow}$	Calcium Chloride	220mg	2.2mL	Lidocaine 2% IO	5.5mg	0.28mL	
	Dextrose 10% slow IV	55mL	55mL	Midazolam Agitation/Sedation IV/IC	1.1mg	0.22mL	<b>_</b>
	Diphenhydramine IV/IM	11mg	0.22mL	Midazolam Agitation/Sedation IN/IN	<b>1</b> 2.2mg	0.44mL	
	DuoDote™	1 dose	NA	Midazolam Seizure 0-11mo <b>IN/IM</b>	2.2mg	0.44mL	
	Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDOSE	-	
	Epinephrine <b>0.1mg/mL IV</b>	0.11mg	1.1mL	Morphine IV/IM/IO	1.1mg	0.28mL	
	Epinephrine 1mg/mL IM	0.11mg	0.11mL	Naloxone IV/IM/IN	1.1mg	1.1mL	
	Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	220mL	220mL	
				Sodium Bicarbonate	11mEq	11mL	

\*\*Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 8 OF 19

Length 83 – 94.5 cr	n		19 -35 months		
Normal Vital Signs:	Heart Rat	e: 90-140	Respirations: 20-30	Systolic BP: >70	)
Cardioversion:	12 joules		24 joules	24 joules	
Defibrillation:	24 joules		48 joules	48 joules	
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter		
Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	1.2mg	0.4mL	Fentanyl <b>IV/IM</b>	12mcg	0.24mL
Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	18mcg	0.36mL
Amiodarone	60mg	1.2mL	Glucagon IM	1mg	1mL
Atropine	0.24mg	2.4mL	Hydroxocobalamin IV/IO**	840mg	33.6mL
Calcium Chloride	240mg	2.4mL	Lidocaine 2% IO	6mg	0.3mL
Dextrose 10% slow IV	60mL	60mL	Midazolam Agitation/Sedation IV/I	<b>O</b> 1.2mg	0.24mL
Diphenhydramine IV/IM	12mg	0.24mL	Midazolam Agitation/Sedation IN/	I <b>M</b> 2.4mg	0.48mL
DuoDote™	1 dose	NA	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
Epinephrine <b>Push Dose</b>	10mcg	1mL	Morphine IV/IM/IO	1.2mg	0.3mL
Epinephrine <b>0.1mg/mL IV</b>	0.12mg	1.2mL	Naloxone IV/IM/IN	1.2mg	1.2mL
Epinephrine 1mg/mL IM	0.12mg	0.12mL	Normal Saline IV Bolus	240mL	240mL
Epinephrine 1mg/mL NEB	5mg	5mL	Sodium Bicarbonate	12mEq	12mL

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

	Length 83 - 94.5 cr	n		19 -35 months			
	Normal Vital Signs:	Heart Rat	te: 90-140	Respirations: 20-30 S	ystolic BP: >70	)	
	Cardioversion:	13 joules		26 joules 2	6 joules		
	Defibrillation:	26 joules		52 joules 5	2 joules		
	Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	1.3mg	0.43mL	Fentanyl <b>IV/IM</b>	13mcg	0.26mL	>
<b>b</b> 0	Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	19.5mcg	0.39mL	>
Y	Amiodarone	65mg	1.3mL	Glucagon IM	1mg	1mL C	)
m	Atropine	0.26mg	2.6mL	Hydroxocobalamin IV/IO**	910mg	36.4mL —	4
H	Calcium Chloride	260mg	2.6mL	Lidocaine 2% IO	6.5mg	0.32mL	
	Dextrose 10% slow IV	65mL	65mL	Midazolam Agitation/Sedation IV/IO	1.3mg	0.26mL	_
	Diphenhydramine IV/IM	13mg	0.26mL	Midazolam Agitation/Sedation IN/IN	<b>1</b> 2.6mg	0.52mL	
	DuoDote™	1 dose	NA	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-	
	Epinephrine <b>Push Dose</b>	10mcg	1mL	Morphine IV/IM/IO	1.3mg	0.32mL	
	Epinephrine <b>0.1mg/mL IV</b>	0.13mg	1.3mL	Naloxone IV/IM/IN	1.3mg	1.3mL	
	Epinephrine 1mg/mL IM	0.13mg	0.13mL	Normal Saline IV Bolus	260mL	260mL	
	Epinephrine 1mg/mL NEB	5mg	5mL	Sodium Bicarbonate	13mEq	13mL	

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 9 OF 19

bū
Ÿ
4

Length 83 – 94.5 cr	n		19 -35 months		
Normal Vital Signs:	Heart Rat	e: 90-140	Respirations: 20-30	Systolic BP: >70	
Cardioversion:	14 joules		28 joules	28 joules	
Defibrillation:	28 joules		56 joules	56 joules	
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter		
Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	1.4mg	0.47mL	Fentanyl <b>IV/IM</b>	14mcg	0.28mL
Albuterol NEB	2.5mg	3mL	Fentanyl <b>IN</b>	21mcg	0.42mL
Amiodarone	70mg	1.4mL	Glucagon IM	1mg	1mL
Atropine	0.28mg	2.8mL	Hydroxocobalamin IV/IO**	980mg	39.2mL
Calcium Chloride	280mg	2.8mL	Lidocaine 2% IO	7mg	0.35mL
Dextrose 10% slow IV	70mL	70mL	Midazolam Agitation/Sedation IV/I	<b>O</b> 1.4mg	0.28mL
Diphenhydramine IV/IM	14mg	0.28mL	Midazolam Agitation/Sedation IN/I	<b>M</b> 2.8mg	0.56mL
DuoDote™	1 dose	NA	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
Epinephrine <b>Push Dose</b>	10mcg	1mL	Morphine IV/IM/IO	1.4mg	0.35mL
Epinephrine <b>0.1mg/mL IV</b>	0.14mg	1.4mL	Naloxone IV/IM/IN	1.4mg	1.4mL
Epinephrine <b>1mg/mL IM</b>	0.14mg	0.14mL	Normal Saline IV Bolus	280mL	280mL
Epinephrine 1mg/mL NEB	5mg	5mL	Sodium Bicarbonate	14mEq	14mL

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 10 OF 19

Long-th 04 E 407			2 4			
Length 94.5 – 107 (	cm		3 – 4 years			
Normal Vital Signs:	Heart Rat	<b>e:</b> 80-130	Respirations: 20-30	Systolic BP: >75		
Cardioversion:	15 joules		30 joules	30 joules		
Defibrillation:	30 joules		60 joules	50 joules		
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter			
Medication	Dose	mLs	Medication	Dose	mLs	
Adenosine	1.5mg	0.5mL	Glucagon IM	1mg	1mL	
Albuterol NEB <4 years	2.5mg	3mL	Glucopaste*	15gm	1 dose	
Albuterol NEB > 4 years	5mg	6mL	Hydroxocobalamin IV/IO**	1050mg	42mL	ш
Amiodarone	75mg	1.5mL	Ketorolac slow <b>IV/IO</b> *	7.5mg	0.5mL	F
Atropine	0.3mg	3mL	Ketorolac <b>IM</b> *	7.5mg	0.5mL	=
Calcium Chloride	300mg	3mL	Lidocaine 2% IO	7.5mg	0.38mL	H/
Dextrose 10% slow IV	75mL	75mL	Midazolam Agitation/Sedation IV/I	<b>O</b> 1.5mg	0.3mL	<b>S</b>
Diphenhydramine IV/IM	15mg	0.3mL	Midazolam Agitation/Sedation IN/I	<b>M</b> 3mg	0.6mL	
DuoDote™	1 dose	NA	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-	
Epinephrine <b>Push Dose</b>	10mcg	1mL	Morphine IV/IM/IO	1.5mg	0.38mL	
Epinephrine 0.1mg/mL IV	0.15mg	1.5mL	Naloxone IV/IM/IN	1.5mg	1.5mL	
Epinephrine 1mg/mL IM	0.15mg	0.15mL	Normal Saline IV Bolus	300mL	300mL	
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT*	4mg	1 tablet	
Fentanyl <b>IV/IM</b>	15mcg	0.3mL	Sodium Bicarbonate	15mEq	15mL	
Fentanyl <b>IN</b>	22.5mcg	0.45mL				
				*4 ye	ars or older	

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

	Length 94.5 – 107 c	m		3 – 4 years			
	Normal Vital Signs:	Heart Ra	te: 80-130	Respirations: 20-30 Sy	stolic BP: >75		
	Cardioversion:	16 joules		32 joules 32	! joules		
	Defibrillation:	32 joules		64 joules 64	joules		
	Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	1.6mg	0.53mL	Glucagon IM	1mg	1mL	
	Albuterol NEB <4 years	2.5mg	3mL	Glucopaste*	15gm	1 dose	
	Albuterol NEB <u>&gt;</u> 4 years	5mg	6mL	Hydroxocobalamin IV/IO**	1120mg	44.8mL	ш
Kg	Amiodarone	80mg	1.6mL	Ketorolac slow IV/IO*	8mg	0.53mL	F
_	Atropine	0.32mg	3.2mL	Ketorolac <b>IM</b> *	8mg	0.53mL	WHIT
16	Calcium Chloride	320mg	3.2mL	Lidocaine 2% IO	8mg	0.4mL	<b>=</b>
7	Dextrose 10% slow IV	80mL	80mL	Midazolam Agitation/Sedation IV/IO	1.6mg	0.32mL	<b>\$</b>
	Diphenhydramine IV/IM	16mg	0.32mL	Midazolam Agitation/Sedation IN/IN	<b>1</b> 3.2mg	0.64mL	
	DuoDote™	1 dose	NA	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-	
	Epinephrine <b>Push Dose</b>	10mcg	1mL	Morphine IV/IM/IO	1.6mg	0.4mL	
	Epinephrine <b>0.1mg/mL IV</b>	0.16mg	1.6mL	Naloxone IV/IM/IN	1.6mg	1.6mL	
	Epinephrine 1mg/mL IM	0.16mg	0.16mL	Normal Saline IV Bolus	320mL	320mL	
	Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT*	4mg	1 tablet	
	Fentanyl <b>IV/IM</b>	16mcg	0.32mL	Sodium Bicarbonate	16mEq	16mL	
	Fentanyl <b>IN</b>	24mcg	0.48mL				
					*4 ye	ars or older	

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

 H
 Length 94.5 − 107 cm
 3 − 4 years

REVISED: 07-01-25 PAGE 11 OF 19

Normal Vital Signs:	Heart Rat	<b>e:</b> 80-130	Respirations: 20-30 S	stolic BP: >75	· )
Cardioversion:	17 joules		34 joules 3	4 joules	
Defibrillation:	34 joules		68 joules 6	8 joules	
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter		
Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	1.7mg	0.57mL	Glucagon IM	1mg	1mL
Albuterol NEB <4 years	2.5mg	3mL	Glucopaste*	15gm	1 dose
Albuterol NEB ≥4 years	5mg	6mL	Hydroxocobalamin IV/IO**	1190mg	47.6mL
Amiodarone	85mg	1.7mL	Ketorolac slow IV/IO*	8.5mg	0.57mL
Atropine	0.34mg	3.4mL	Ketorolac <b>IM</b> *	8.5mg	0.57mL
Calcium Chloride	340mg	3.4mL	Lidocaine 2% IO	8.5mg	0.42mL
Dextrose 10% slow IV	85mL	85mL	Midazolam Agitation/Sedation IV/I	<b>)</b> 1.7mg	0.34mL
Diphenhydramine IV/IM	17mg	0.34mL	Midazolam Agitation/SedationIN/IN	<b>1</b> 3.4mg	0.68mL
DuoDote™	1 dose	NA	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
Epinephrine <b>Push Dose</b>	10mcg	1mL	Morphine IV/IM/IO	1.7mg	0.43mL
Epinephrine 0.1mg/mL IV	0.17mg	1.7mL	Naloxone IV/IM/IN	1.7mg	1.7mL
Epinephrine 1mg/mL IM	0.17mg	0.17mL	Normal Saline IV Bolus	340mL	340mL
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT*	4mg	1 tablet
Fentanyl <b>IV/IM</b>	17mcg	0.34mL	Sodium Bicarbonate	17mEq	17mL
Fentanyl <b>IN</b>	25.5mcg	0.51mL			
1				*4 ye	ars or older

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

Length 94.5 – 107 (	cm		3 – 4 years			
Normal Vital Signs:	Heart Rat	te: 80-130	Respirations: 20-30	Systoli	ic <b>BP:</b> >75	
Cardioversion:	18 joules		36 joules	36 jou	les	
Defibrillation:	36 joules		72 joules	72 jou	les	
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter			
Medication	Dose	mLs	Medication		Oose	mLs
Adenosine	1.8mg	0.6mL	Glucagon IM	1	lmg	1mL
Albuterol NEB <4 years	2.5mg	3mL	Glucopaste*	1	L5gm	1 dose
Albuterol NEB <u>&gt;</u> 4 years	5mg	6mL	Hydroxocobalamin IV/IO**	1	L260mg	50.4mL
Amiodarone	90mg	1.8mL	Ketorolac slow IV/IO*	9	9mg	0.6mL
Atropine	0.36mg	3.6mL	Ketorolac <b>IM</b> *	S	9mg	0.6mL
Calcium Chloride	360mg	3.6mL	Lidocaine 2% IO	9	9mg	0.45mL
Dextrose 10% slow IV	90mL	90mL	Midazolam Agitation/Sedation I	I <b>V/IO</b> 1	L.8mg	0.36mL
Diphenhydramine IV/IM	18mg	0.36mL	Midazolam Agitation/Sedation I	I <b>N/IM</b> 3	3.6mg	0.72mL
DuoDote™	1 dose	NA	Midazolam Seizure ≥12mo <b>IN/II</b>	<b>M</b> F	PediDose	-
Epinephrine <b>Push Dose</b>	10mcg	1mL	Morphine IV/IM/IO	1	L.8mg	0.45mL
Epinephrine 0.1mg/mL IV	0.18mg	1.8mL	Naloxone IV/IM/IN	1	L.8mg	1.8mL
Epinephrine 1mg/mL IM	0.18mg	0.18mL	Normal Saline IV Bolus	3	360mL	360mL
Epinephrine 1mg/mL NEB	5mg	5mL	Ondansetron ODT*	4	lmg	1 tablet
Fentanyl <b>IV/IM</b>	18mcg	0.36mL	Sodium Bicarbonate	1	L8mEq	18mL
Fentanyl <b>IN</b>	27mcg	0.54mL				
					*4 ye	ars or older

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

Length 107 – 119.5	cm	5 – 6 years		3
Normal Vital Signs:	Heart Rate: 70-120	Respirations: 15-30	Systolic BP: >80	

REVISED: 07-01-25 PAGE 12 OF 19

Cardioversion:	19 joules		38 joules 3	8 joules	
Defibrillation:	38 joules		76 joules 7	6 joules	
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter		
Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	1.9mg	0.63mL	Glucagon IM	1mg	1mL
Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose
Amiodarone	95mg	1.9mL	Hydroxocobalamin IV/IO**	1330mg	53.2mL
Atropine	0.38mg	3.8mL	Ketorolac slow IV/IO	9.5mg	0.63mL
Calcium Chloride	380mg	3.8mL	Ketorolac <b>IM</b>	9.5mg	0.63mL
Dextrose 10% slow IV	95mL	95mL	Lidocaine 2% IO	9.5mg	0.48mL
Diphenhydramine IV/IM	19mg	0.38mL	Midazolam Agitation/Sedation IV/I	<b>0</b> 1.9mg	0.38mL
DuoDote™	1 dose	NA	Midazolam Agitation/Sedation <b>IN/II</b>	<b>d</b> 3.8mg	0.76mL
Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
Epinephrine <b>0.1mg/mL IV</b>	0.19mg	1.9mL	Morphine IV/IM/IO	1.9mg	0.48mL
Epinephrine 1mg/mL IM	0.19mg	0.19mL	Naloxone IV/IM/IN	1.9mg	1.9mL
Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	380mL	380mL
Fentanyl <b>IV/IM</b>	19mcg	0.38mL	Ondansetron ODT	4mg	1 tablet
Fentanyl <b>IN</b>	28.5mcg	0.57mL	Sodium Bicarbonate	19mEq	19mL

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

Length 107 – 119.5			5 – 6 years		
Normal Vital Signs:	Heart Rate	e: 70-120	Respirations: 15-30 S	<b>ystolic BP:</b> >80	
Cardioversion:	20 joules		40 joules 4	0 joules	
Defibrillation:	40 joules		80 joules 8	0 joules	
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter		
Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	2mg	0.67mL	Glucagon IM	1mg	1mL
Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose
Amiodarone	100mg	2mL	Hydroxocobalamin IV/IO**	1400mg	56mL
Atropine	0.4mg	4mL	Ketorolac slow IV/IO	10mg	0.67mL
Calcium Chloride	400mg	4mL	Ketorolac <b>IM</b>	10mg	0.67mL
Dextrose 10% slow IV	100mL	100mL	Lidocaine 2% IO	10mg	0.5mL
Diphenhydramine IV/IM	20mg	0.4mL	Midazolam Agitation/Sedation IV/I	<b>)</b> 2mg	0.4mL
DuoDote™	1 dose	NA	Midazolam Agitation/SedationIN/II	<b>√</b> 4mg	0.8mL
Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
Epinephrine 0.1mg/mL IV	0.2mg	2mL	Morphine IV/IM/IO	2mg	0.5mL
Epinephrine 1mg/mL IM	0.2mg	0.2mL	Naloxone IV/IM/IN	2mg	2mL
Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	400mL	400mL
Fentanyl <b>IV/IM</b>	20mcg	0.4mL	Ondansetron ODT	4mg	1 tablet
Fentanyl <b>IN</b>	30mcg	0.6mL	Sodium Bicarbonate	20mEq	20mL

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 13 OF 19

þū
Y
2
N

Length 107 – 119.5 cm			5 – 6 years		
Normal Vital Signs:	Heart Rat	<b>e:</b> 70-120	Respirations: 15-30 S	Systolic BP: >80	
Cardioversion:	22 joules		44 joules 4	4 joules	
Defibrillation:	44 joules		88 joules 8	8 joules	
Supraglottic Airway:	igel	Size 2	12 F gastric suction catheter		
Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	2.2mg	0.73mL	Glucagon IM	1mg	1mL
Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose
Amiodarone	110mg	2.2mL	Hydroxocobalamin IV/IO**	1540mg	61.6mL
Atropine	0.44mg	4.4mL	Ketorolac slow <b>IV/IO</b>	11mg	0.73mL
Calcium Chloride	440mg	4.4mL	Ketorolac <b>IM</b>	11mg	0.73mL
Dextrose 10% slow IV	110mL	110mL	Lidocaine 2% IO	11mg	0.55mL
Diphenhydramine IV/IM	22mg	0.44mL	Midazolam Agitation/Sedation IV/I	<b>)</b> 2.2mg	0.44mL
DuoDote™	1 dose	NA	Midazolam Agitation/Sedation IN/II	<b>M</b> 4.4mg	0.88mL
Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
Epinephrine <b>0.1mg/mL IV</b>	0.22mg	2.2mL	Morphine IV/IM/IO	2.2mg	0.55mL
Epinephrine 1mg/mL IM	0.22mg	0.22mL	Naloxone IV/IM/IN	2mg	2mL
Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	440mL	440mL
Fentanyl <b>IV/IM</b>	22mcg	0.44mL	Ondansetron ODT	4mg	1 tablet
Fentanyl <b>IN</b>	33mcg	0.66mL	Sodium Bicarbonate	22mEq	22mL

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 14 OF 19

ш
C
Ž
4
<u> </u>
C

	•	١	d
d	Ū	7	1
d	`	1	9
L		d	ı
4	1	J	ľ
		₹	1

Length 119 – 129 cm			7 – 9 years		
Normal Vital Signs:	Heart Rat	te: 70-110	Respirations: 15-30 Sy	Systolic BP: >80	
Cardioversion:	24 joules		48 joules 48	joules	
Defibrillation:	48 joules		96 joules 96	joules	
Supraglottic Airway:	igel	Size 2.5	12 F gastric suction catheter		
Medication	Dose	mLs	Medication	Dose	mLs
Adenosine	2.4mg	0.8mL	Glucagon IM	1mg	1mL
Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose
Amiodarone	120mg	2.4mL	Hydroxocobalamin IV/IO**	1680mg	67.2mL
Atropine	0.48mg	4.8mL	Ketorolac slow <b>IV/IO</b>	12mg	0.8mL
Calcium Chloride	480mg	4.8mL	Ketorolac <b>IM</b>	12mg	0.8mL
Dextrose 10% slow IV	120mL	120mL	Lidocaine 2% IO	12mg	0.6mL
Diphenhydramine IV/IM	24mg	0.48mL	Midazolam Agitation/Sedation IV/IC	2.4mg	0.48mL
DuoDote™	2 doses	NA	Midazolam Agitation/Sedation IN/IN	<b>1</b> 4.8mg	0.96mL
Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
Epinephrine <b>0.1mg/mL IV</b>	0.24mg	2.4mL	Morphine IV/IM/IO	2.4mg	0.6mL
Epinephrine 1mg/mL IM	0.24mg	0.24mL	Naloxone IV/IM/IN	2mg	2mL
Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	480mL	480mL
Fentanyl <b>IV/IM</b>	24mcg	0.48mL	Ondansetron ODT	4mg	1 tablet
Fentanyl <b>IN</b>	36mcg	0.72mL	Sodium Bicarbonate	24mEq	24mL

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

	Length 119 – 129 cr	n		7 – 9 years			
	Normal Vital Signs:	Heart Rat	te: 70-110	Respirations: 15-30 Sys	tolic BP: >80		
	Cardioversion:	26 joules		52 joules 52	joules		
	Defibrillation:	52 joules		104 joules 10	4 joules		
	Supraglottic Airway:	igel	Size 2.5	12 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	2.6mg	0.87mL	Glucagon IM	1mg	1mL	
	Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose	ш
þD	Amiodarone	130mg	2.6mL	Hydroxocobalamin IV/IO**	1820mg	72.8mL	U
¥	Atropine	0.5mg	5mL	Ketorolac slow IV/IO	13mg	0.87mL	Z
9	Calcium Chloride	520mg	5.2mL	Ketorolac <b>IM</b>	13mg	0.87mL	ORANG
7	Dextrose 10% slow IV	125mL	125mL	Lidocaine 2% IO	13mg	0.65mL	
	Diphenhydramine IV/IM	26mg	0.52mL	Midazolam Agitation/Sedation IV/IO	2.6mg	0.52mL	0
	DuoDote™	2 doses	NA	Midazolam Agitation/Sedation IN/IM	5mg	1mL	
	Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-	
	Epinephrine <b>0.1mg/mL IV</b>	0.26mg	2.6mL	Morphine IV/IM/IO	2.6mg	0.65mL	
	Epinephrine 1mg/mL IM	0.26mg	0.26mL	Naloxone IV/IM/IN	2mg	2mL	
	Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	520mL	520mL	
	Fentanyl <b>IV/IM</b>	26mcg	0.52mL	Ondansetron ODT	4mg	1 tablet	
	Fentanyl <b>IN</b>	39mcg	0.78mL	Sodium Bicarbonate	26mEq	26mL	

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 15 OF 19

		Length 119 – 129 cn	n		7 – 9 years			
		Normal Vital Signs:	Heart Rat	te: 70-110	Respirations: 15-30 S	ystolic BP: >80	)	
		Cardioversion:	28 joules		56 joules 5	6 joules		
		Defibrillation:	56 joules		112 joules 1	12 joules		
		Supraglottic Airway:	igel	Size 2.5	12 F gastric suction catheter			
		Medication	Dose	mLs	Medication	Dose	mLs	
		Adenosine	2.8mg	0.93mL	Glucagon IM	1mg	1mL	
		Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose	
		Amiodarone	140mg	2.8mL	Hydroxocobalamin IV/IO**	1960mg	78.4mL	岩
, o	$\hat{\mathbf{n}}$	Atropine	0.5mg	5mL	Ketorolac slow <b>IV/IO</b>	14mg	0.93mL	
		Calcium Chloride	560mg	5.6mL	Ketorolac <b>IM</b>	14mg	0.93mL	5
28 Ka	S	Dextrose 10% slow IV	125-	125-	Lidocaine 2% IO	14mg	0.7mL	ORANG
	1		140mL	140mL				F C
		Diphenhydramine IV/IM	28mg	0.56mL	Midazolam Agitation/Sedation IV/I	<b>O</b> 2.8mg	0.56mL	O
		DuoDote™	2 doses	NA	Midazolam Agitation/Sedation IN/I	<b>M</b> 5mg	1mL	
		Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-	
		Epinephrine <b>0.1mg/mL IV</b>	0.28mg	2.8mL	Morphine IV/IM/IO	2.8mg	0.7mL	
		Epinephrine 1mg/mL IM	0.28mg	0.28mL	Naloxone IV/IM/IN	2mg	2mL	
		Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	560mL	560mL	
		Fentanyl <b>IV/IM</b>	28mcg	0.56mL	Ondansetron ODT	4mg	1 tablet	
		Fentanyl <b>IN</b>	42mcg	0.84mL	Sodium Bicarbonate	28mEq	28mL	
				•	**Reconstit	ute 5g vial in 200r	nl NS	

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 16 OF 19

Heart Rate: 60-100

Size 2.5

mLs

1mL

6mL

3mL

5mL

6mL

125-

150mL

0.6mL

NA

1mL

3mL

5mL

0.3mL

0.6mL

0.9mL

30 joules

60 joules

Dose

3mg

5mg

150mg

0.5mg

600mg

150mL

30mg

2 doses

10mcg

0.3mg

0.3mg

30mcg

45mcg

5mg

125-

Length 129 - 141.5 cm

**Normal Vital Signs:** 

Supraglottic Airway:

Cardioversion: Defibrillation:

Medication

Albuterol NEB

Calcium Chloride

Dextrose 10% slow IV

Diphenhydramine IV/IM

Epinephrine Push Dose

Epinephrine 0.1mg/mL IV

Epinephrine 1mg/mL NEB

Length 129 - 141.5 cm

Epinephrine 1mg/mL IM

Amiodarone

Atropine

DuoDote™

Fentanyl IV/IM

Fentanyl IN

Adenosine

mLs

1mL

1 dose

84mL

1mL

1mL

0.75mL

0.6mL

0.75mL

600mL

1mL

2mL

Systolic BP: >90

Dose

1mg

15gm

15mg

15<sub>mg</sub>

15mg

3mg

5mg

3mg

2mg

600mL

PediDose

2100mg

60 joules

120 joules

1 tablet 4mg 30mL 30mEq \*\*Reconstitute 5g vial in 200ml NS

	Normal Vital Signs:	Heart Rate	e: 60-100	Respirations: 15-20	Systolic BP: >90		
	Cardioversion:	32 joules		64 joules 6	64 joules		
	Defibrillation:	64 joules		128 joules	28 joules		
	Supraglottic Airway:	igel	Size 2.5	12 F gastric suction catheter			
	Medication	Dose	mLs	Medication	Dose	mLs	
	Adenosine	3.2mg	1.07mL	Glucagon IM	1mg	1mL	
	Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose	
	Amiodarone	160mg	3.2mL	Hydroxocobalamin IV/IO**	2240mg	89.6mL	
þ	Atropine	0.5mg	5mL	Ketorolac slow <b>IV/IO</b>	15mg	1mL	_
<b>Y</b>	Calcium Chloride	640mg	6.4mL	Ketorolac <b>IM</b>	15mg	1mL	GREEN
7	Dextrose 10% slow IV	125-	125-	Lidocaine 2% IO	16mg	0.8mL	~
m		160mL	160mL				76
	Diphenhydramine IV/IM	32mg	0.64mL	Midazolam Agitation/Sedation IV/I	<b>3</b> .2mg	0.64mL	
	DuoDote™	2 doses	NA	Midazolam Agitation/Sedation IN/I	<b>M</b> 5mg	1mL	
	Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-	
	Epinephrine <b>0.1mg/mL</b>	0.32mg	3.2mL	Morphine IV/IM/IO	3.2mg	0.8mL	
	IV						
	Epinephrine 1mg/mL IM	0.32mg	0.32mL	Naloxone IV/IM/IN	2mg	2mL	
	Epinephrine <b>1mg/mL</b>	5mg	5mL	Normal Saline IV Bolus	640mL	640mL	
	NEB						
	Fentanyl <b>IV/IM</b>	32mcg	0.64mL	Ondansetron ODT	4mg	1 tablet	
	Fentanyl <b>IN</b>	48mcg	0.96mL	Sodium Bicarbonate	32mEq	32mL	

10 - 12 years

60 joules

Medication

Glucagon IM

Glucopaste

Ketorolac IM

Lidocaine 2% IO

Morphine IV/IM/IO

Naloxone IV/IM/IN

Ondansetron ODT

10 - 12 years

Sodium Bicarbonate

Normal Saline IV Bolus

120 joules

Respirations: 15-20

12 F gastric suction catheter

Hydroxocobalamin IV/IO\*\*

Midazolam Agitation/Sedation IV/IO

Midazolam Agitation/Sedation IN/IM

Midazolam Seizure ≥12mo IN/IM

Ketorolac slow IV/IO

REVISED: 07-01-25 **PAGE 17 OF 19** 

<sup>\*\*</sup>Reconstitute 5g vial in 200ml NS

<b>Length 129 – 141.5</b>	cm		10 – 12 years			
Normal Vital Signs:	Heart Rate	: 60-100	Respirations: 15-20	Systoli	<b>c BP:</b> >90	
Cardioversion:	34 joules		68 joules	68 joul	es	
Defibrillation:	68 joules		136 joules	136 jou	ules	
Supraglottic Airway:	igel	Size 2.5	12 F gastric suction catheter			
Medication	Dose	mLs	Medication		Dose	mLs
Adenosine	3.4mg	1.13mL	Glucagon IM		1mg	1mL
Albuterol NEB	5mg	6mL	Glucopaste		15gm	1 dose
Amiodarone	170mg	3.4mL	Hydroxocobalamin IV/IO**		2380mg	95.2mL
Atropine	0.5mg	5mL	Ketorolac slow <b>IV/IO</b>		15mg	1mL
Calcium Chloride	680mg	6.8mL	Ketorolac <b>IM</b>		15mg	1mL
Dextrose 10% slow IV	125-	125-	Lidocaine 2% IO		17mg	0.85mL
	170mL	170mL				
Diphenhydramine IV/IM	34mg	0.68mL	Midazolam Agitation/Sedation <b>IV/</b>	/IO	3.4mg	0.68mL
DuoDote™	2 doses	NA	Midazolam Agitation/Sedation IN,	/IM	5mg	1mL
Epinephrine <b>Push Dose</b>	10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>		PediDose	-
Epinephrine <b>0.1mg/mL</b>	0.34mg	3.4mL	Morphine IV/IM/IO		3.4mg	0.85mL
IV						
Epinephrine 1mg/mL IM	0.34mg	0.34mL	Naloxone IV/IM/IN		2mg	2mL
Epinephrine <b>1mg/mL</b>	5mg	5mL	Normal Saline IV Bolus		680mL	680mL
NEB						
Fentanyl <b>IV/IM</b>	34mcg	0.68mL	Ondansetron ODT		4mg	1 tablet
Fentanyl <b>IN</b>	50mcg	1mL	Sodium Bicarbonate		34mEq	34mL
			**D		:-1:- 200	LAIC

\*\*Reconstitute 5g vial in 200ml NS

	Length 129 – 141	L.5 cm		10 – 12 years		
	Normal Vital Signs:	Heart Rate: 60	0-100	Respirations: 15-20	Systolic BP: >9	0
	Cardioversion:	36 joules		72 joules	72 joules	
	Defibrillation:	72 joules		144 joules	144 joules	
	Supraglottic Airway:	igel	Size 2.5	12 F gastric suction catheter		
	Medication	Dose	mLs	Medication	Dose	mLs
	Adenosine	3.6mg	1.2mL	Glucagon IM	1mg	1mL
	Albuterol NEB	5mg	6mL	Glucopaste	15gm	1 dose
	Amiodarone	180mg	3.6mL	Hydroxocobalamin IV/IO**	2520mg	100.8mL
5.0	Atropine	0.5mg	5mL	Ketorolac slow IV/IO	15mg	1mL
OD O	Calcium Chloride	720mg	7.2mL	Ketorolac <b>IM</b>	15mg	1mL
36 Kg	Dextrose 10% slow IV	125-	125-	Lidocaine 2% IO	18mg	0.9mL
9		180mL	180mL			
(II)	Diphenhydramine IV/II	M 36mg	0.72mL	Midazolam Agitation/Sedation IV/IC	<b>)</b> 3.6mg	0.72mL
	DuoDote™	2 doses	NA	Midazolam Agitation/Sedation IN/IM	5mg	1mL
	Epinephrine <b>Push Dose</b>	e 10mcg	1mL	Midazolam Seizure ≥12mo <b>IN/IM</b>	PediDose	-
	Epinephrine <b>0.1mg/ml</b> IV	0.36mg	3.6mL	Morphine IV/IM/IO	3.6mg	0.9mL
	Epinephrine 1mg/mL II	<b>M</b> 0.36mg	0.36mL	Naloxone IV/IM/IN	2mg	2mL
	Epinephrine 1mg/mL NEB	5mg	5mL	Normal Saline IV Bolus	720mL	720mL
	Fentanyl <b>IV/IM</b>	36mcg	0.72mL	Ondansetron ODT	4mg	1 tablet
	Fentanyl <b>IN</b>	50mcg	1mL	Sodium Bicarbonate	36mEq	36mL

\*\*Reconstitute 5g vial in 200ml NS

REVISED: 07-01-25 PAGE 18 OF 19

	Longer than the Length-Based Resuscitation Tape							
	Normal Vital Signs:	Heart Rate:	60-100	Respirations: 12-20	Systo	ic <b>BP:</b> >90		
	Cardioversion:	120 joules		150 joules	200 jo	oules		
	Defibrillation:	200 joules		200 joules	200 ja	oules		
	Supraglottic Airway:	igel	30-60 kg	Size 3 (12 F gastric suction ca	theter			
			50-90 kg	Size 4 (12 F gastric suction ca	theter			
			>90 kg	Size 5 (12 F gastric suction ca	theter			
	Medication	Dose	mLs	Medication		Dose	mLs	
	Adenosine	6 or 12mg	2 or 4mL	Ketorolac <b>IM</b>		30mg	2mL	
	Albuterol NEB	5mg	6mL	Lidocaine 2% IO		40mg	2mL	
	Amiodarone	300mg	6mL	Midazolam Agitation/Sedation	IV/IO <sup>3</sup>	5 mg	1 mL	<b>Y</b>
	Aspirin	325mg	1 tablet	Midazolam Agitation/Sedation	$IM/IN^3$	5 or 10mg	1 or 2mL	0
ADUI	Atropine	1mg	10mL	Midazolam Seizure >14y IV/IO <sup>3</sup>	3	5mg	1mL	BLACK
	Calcium Chloride	1gm	10mL	Midazolam Seizure <b>IM/IN</b> <sup>3</sup>		10mg	2mL	
	Dextrose 10% slow IV <sup>1</sup>	125-250mL	125-250mL	Morphine IV/IM/IO <sup>4</sup>		4mg	1mL	$oldsymbol{\Omega}$
	Diphenhydramine IV/IM	50mg	1mL	Naloxone IV		0.8-2mg	0.8-2mL	
	DuoDote™	1-3 doses	NA	Naloxone IM		2mg	2mL	
	Epinephrine <b>Push Dose</b>	10mcg	1mL	Naloxone IN		2-4mg	2-4mL	
	Epinephrine 0.1mg/mL IV	1mg	10mL	Nitroglycerin <sup>5</sup>		0.4mg	1 dose	
	Epinephrine 1mg/mL IM	0.5mg	0.5mL	Normal Saline IV Bolus		1L	1L	
	Epinephrine 1mg/mL NEB	5mg	5mL	Olanzapine ODT <sup>6</sup>		10mg	1 tablet	
	Fentanyl IV/IM/IN <sup>2</sup>	50mcg	1mL	Ondansetron ODT		4mg	1 tablet	
	Glucagon IM	1mg	1mL	Ondansetron IV/IM <sup>7</sup>		4mg	2mL	
	Glucopaste	15gm	1 dose	Sodium Bicarbonate		50mEq	50mL	
	Ketorolac slow IV/IO	15mg	1mL	Tranexamic Acid (TXA) <sup>8</sup>		1gm	50/100mL	

#### NOTES:

Chest Pain – Suspected Cardiac / Chest Pain – STEMI

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

Pulmonary Edema / CHF

**0.4mg SL**, for SBP  $\geq$  100mmHg; **0.8mg SL**, for SBP  $\geq$  150mmHg; **1.2mg SL**, for SBP  $\geq$  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

REVISED: 07-01-25 PAGE 19 OF 19

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

<sup>&</sup>lt;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>&</sup>lt;sup>3</sup> Midazolam: Dose varies by indication, refer to Treatment Protocol and MCG 1317.25

<sup>&</sup>lt;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>&</sup>lt;sup>5</sup> Nitroglycerin

<sup>&</sup>lt;sup>6</sup> Olanzapine ODT given once

 $<sup>^{\</sup>bf 7}$  Ondansetron IV/IM – only for 15 years of age or older

<sup>&</sup>lt;sup>8</sup> Tranexamic Acid (TXA) – 1gm(10mL) dilute in 50 or 100mL of normal saline infused over 10 minutes