



**PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT**

3-5 KG NEWBORN	Defibrillation (2-4J/kg)				Normal Vital Signs			
	Cardioversion** (1J/kg)				HR: 100-180 Respirations: 30-60 SBP: >60mmHg			
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs
	8-16 joules							
	4 joules							
**Adenosine (1 <sup>st</sup> dose)	Rapid IV	0.4 mg	0.1 mL BHO	Glucagon	IM	0.5 mg	0.5 mL	
3mg/mL				1mg/mL				
**Adenosine (2 <sup>nd</sup> dose)	Rapid IV	0.8 mg	0.3 mL BHO	**Hydroxocobalamin	IV	280 mg	1.1 mL BHO	
3mg/mL				25mg/mL		Over 15 min		
Albuterol	Neb	2.5 mg	3 mL	Lidocaine 2%	IO	2 mg	0.15 mL	
2.5mg/3mL				100mg/5mL				
Amiodarone (VF/pulseless VT)	IV/IO	20 mg	0.4 mL	Lidocaine 2% (Cardiac arrest)	IV/IO	4 mg	0.2 mL	
50mg/mL				100mg/5mL				
**Amiodarone (VT w/ pulse)	IV	20 mg	0.4 mL BHO	Midazolam (Seizure 1 <sup>st</sup> line)	IM	0.8 mg	0.16 mL	
50mg/mL		Over 10 min.		5mg/mL				
Atropine (Bradycardia)	IV/IO	0.1 mg	0.1 mL	Midazolam (Seizure)	IV/IO/IN	0.4mg	0.1 mL	
1mg/mL				5mg/mL				
Atropine (Bradycardia)	IV/IO	0.1 mg	1 mL	**Midazolam (Cardioversion)	IN/IV/IM	0.4mg	0.1 mL BHO	
0.1mg/mL				5mg/mL				
Atropine (Organophosphate)	IV	0.1 mg	0.1 mL	**Morphine	IV	0.4 mg	0.1 mL BHO <2yrs	
1mg/mL				4mg/mL	carpuject			
Atropine (Organophosphate)	IV	0.1 mg	1 mL	**Morphine	IV	0.4 mg	0.4 mL BHO <2yrs	
0.1mg/mL				10mg/10mL	carpuject			
Atropine (Organophosphate)	IM	0.4 mg	0.4 mL	**Morphine	IM	0.4 mg	0.05 mL BHO <2yrs	
1mg/mL				10mg/mL				
Dextrose 10%	IV	20 mL		Naloxone	IN/IV/IM	0.4 mg	1 mL	
100 mg/mL				0.8mg/2mL				
Diphenhydramine	IV/IO/IM	4 mg	0.1 mL	Naloxone	IN/IV/IM	0.4 mg	0.4 mL	
50mg/mL				1mg/mL				
Epinephrine (Anaphylaxis)	IM	0.04 mg	0.04 mL	Naloxone	IN	Single spray		
1mg/mL (1:1000)				4mg/0.1mL				
Epinephrine (Anaphylaxis)	IV/IO	0.04 mg	0.4 mL	Normal Saline	IV/IO	80 mL		
0.1mg/mL				0.9% NaCl				
Epinephrine (Cardiac arrest)	IV/IO	0.04 mg	0.4 mL	Normal Saline	Neb	3 mL		
0.1mg/mL				0.9% NaCl				
Epinephrine (Cardiac arrest)	IV	0.04 mg	0.4 mL	Ondansetron	ODT	N/A		
0.1mg/mL				4mg				
**Fentanyl	IN/IV/IM	8 mcg	0.2 mL BHO <2 yrs	Sodium Bicarbonate	IV/IO	4 mEq	4 mL	
50mcg/mL				1mEq/mL				
				1:1 dilution with NS				
**Base Hospital Order				All milliliters rounded				

NEWBORN  
3-5 KG

6-7 kg 3 MONTHS	Defibrillation (2-4 J/kg)				Normal Vital Signs			
	Cardioversion** (1 J/kg)				HR: 100-160 Respirations: 25-40 SBP: >70mmHg			
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs
	12-24 joules							
	6 joules							
**Adenosine (1 <sup>st</sup> dose)	Rapid IV	0.6 mg	0.2 mL BHO	Glucagon	IM	0.5 mg	0.5 mL	
3mg/mL				1mg/mL				
**Adenosine (2 <sup>nd</sup> dose)	Rapid IV	1.2 mg	0.4 mL BHO	**Hydroxocobalamin	IV	420 mg	17 mL BHO	
3mg/mL				25mg/mL		Over 15 min		
Albuterol	Neb	5 mg	6 mL	Lidocaine 2%	IO	3 mg	0.15 mL	
2.5mg/3mL				100mg/5mL				
Amiodarone (VF/pulseless VT)	IV/IO	30 mg	0.6 mL	Lidocaine 2% (Cardiac arrest)	IV/IO	6 mg	0.3 mL	
50mg/mL				100mg/5mL				
**Amiodarone (VT w/ pulse)	IV	30 mg	0.6 mL BHO	Midazolam (Seizure 1 <sup>st</sup> line)	IM	1.2 mg	0.25 mL	
50mg/mL		Over 10 min.		5mg/mL				
Atropine (Bradycardia)	IV/IO	0.14 mg	0.14 mL	Midazolam (Seizure)	IV/IO/IN	0.6 mg	0.1 mL	
1mg/mL				5mg/mL				
Atropine (Bradycardia)	IV/IO	0.14 mg	1.4 mL	**Midazolam (Cardioversion)	IN/IV/IM	0.6 mg	0.1 mL BHO	
0.1mg/mL				5mg/mL				
Atropine (Organophosphate)	IV	0.14 mg	0.14 mL	**Morphine	IV	0.6 mg	0.15 mL BHO <2yrs	
1mg/mL				4mg/mL	carpuject			
Atropine (Organophosphate)	IV	0.14 mg	1.4 mL	**Morphine	IV	0.6 mg	0.6 mL BHO <2yrs	
0.1mg/mL				10mg/10mL	carpuject			
Atropine (Organophosphate)	IM	0.6 mg	0.6 mL	**Morphine	IM	0.6 mg	0.05 mL BHO <2yrs	
1mg/mL				10mg/mL				
Dextrose 10%	IV	30 mL		Naloxone	IN/IV/IM	0.6 mg	1.5 mL	
100 mg/mL				0.8mg/2mL				
Diphenhydramine	IV/IO/IM	6 mg	0.1 mL	Naloxone	IN/IV/IM	0.6 mg	0.6 mL	
50mg/mL				1mg/mL				
Epinephrine (Anaphylaxis)	IM	0.06 mg	0.06 mL	Naloxone	IN	Single spray		
1mg/mL (1:1000)				4mg/0.1mL				
Epinephrine (Anaphylaxis)	IV/IO	0.06 mg	0.6 mL	Normal Saline	IV/IO	120 mL		
0.1mg/mL (1:10,000)				0.9% NaCl				
Epinephrine (Cardiac arrest)	IV	0.06 mg	0.6 mL	Normal Saline	Neb	3 mL		
0.1mg/mL (1:10,000)				0.9% NaCl				
**Fentanyl	IN/IV/IM	12 mcg	0.25 mL BHO <2yrs	Ondansetron	ODT	N/A		
50mcg/mL				4mg				
				1:1 dilution with NS				
**Base Hospital Order				All milliliters rounded				

3 MONTHS  
6-7 KG

Approved: *Carl Schultz, MD*

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**PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT**

8-9 KG 6 MONTHS	16-32 joules				Normal Vital Signs			
	8 joules				HR: 100-160	Respirations: 20-40	SBP: >70mmHg	
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs
**Adenosine (1 <sup>st</sup> dose) 3mg/mL	Rapid IV	0.8 mg	0.3 mL BHO	Glucagon 1mg/mL	IM	0.5 mg	0.5 mL	
**Adenosine (2 <sup>nd</sup> dose) 3mg/mL	Rapid IV	1.6 mg	0.5 mL BHO	**Hydroxocobalamin 25mg/mL	IV	560 mg Over 15 min	22 mL BHO	
Albuterol 2.5mg/3mL	Neb	5 mg	6 mL	Lidocaine 2% 100mg/5mL	IO	4 mg	0.2 mL	
Amiodarone (VF/pulseless VT) 50mg/mL	IV/IO	40 mg	0.8 mL	Lidocaine 2% (Cardiac arrest) 100mg/5mL	IV/IO	8 mg	0.4 mL	
**Amiodarone (VT w/ pulse) 50mg/mL	IV	40 mg Over 10 min	0.8 mL BHO	Midazolam (Seizure 1 <sup>st</sup> line) 5mg/mL	IM	1.6 mg	0.32 mL	
Atropine (Bradycardia) 1mg/mL	IV/IO	0.16 mg	0.16 mL	Midazolam (Seizure) 5mg/mL	IV/IO/IN	0.8 mg	0.16 mL	
Atropine (Bradycardia) 0.1mg/mL	IV/IO	0.16 mg	1.6 mL	**Midazolam (Cardioversion) 5mg/mL	IN/IV/IM	0.8 mg	0.16 mL BHO	
Atropine (Organophosphate) 1mg/mL	IV	0.16 mg	0.16 mL	**Morphine 4mg/mL	IV carpuject	0.8 mg	0.2 mL BHO <2yrs	
Atropine (Organophosphate) 0.1mg/mL	IV	0.16 mg	1.6 mL	**Morphine 10mg/10mL	IV carpuject	0.8 mg	0.8 mL BHO <2yrs	
Atropine (Organophosphate) 1mg/mL	IM	0.8 mg	0.8 mL	**Morphine 10mg/mL	IM	0.8 mg	0.08 mL BHO <2yrs	
Dextrose 10% 100 mg/mL	IV		40 mL	Naloxone 0.8mg/2mL	IN/IV/IM	0.8 mg	2 mL	
Diphenhydramine 50mg/mL	IV/IO/IM	8 mg	0.15 mL	Naloxone 1mg/mL	IN/IV/IM	0.8 mg	0.8 mL	
Epinephrine (Anaphylaxis) 1mg/mL (1:1000)	IM	0.08 mg	0.08 mL	Naloxone 4mg/0.1mL	IN		Single spray	
Epinephrine (Anaphylaxis) 0.1mg/mL (1:10,000)	IV/IO	0.08 mg	0.8 mL	Normal Saline 0.9% NaCl	IV/IO		160 mL	
Epinephrine (Cardiac arrest) 0.1mg/mL (1:10,000)	IV/IO	0.08 mg	0.8 mL	Normal Saline 0.9% NaCl	Neb		3 mL	
**Fentanyl 50mcg/mL	IN/IV/IM	16 mcg	0.3 mL BHO <2yrs	Ondansetron 4mg	ODT		N/A	
				Sodium Bicarbonate 1mEq/mL	IV/IO	8 mEq	8 mL	

\*\*Base Hospital Order All milliliters rounded

10-11 KG 1 YEAR	20-40 joules				Normal Vital Signs			
	10 joules				HR: 90-140	Respirations: 24-40	SBP: >80mmHg	
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs
**Adenosine (1 <sup>st</sup> dose) 3mg/mL	Rapid IV	1 mg	0.3 mL BHO	Glucagon 1mg/mL	IM	0.5 mg	0.5 mL	
**Adenosine (2 <sup>nd</sup> dose) 3mg/mL	Rapid IV	2 mg	0.7 mL BHO	**Hydroxocobalamin 25mg/mL	IV	700 mg Over 15 min	28 mL BHO	
Albuterol 2.5mg/3mL	Neb	5 mg	6 mL	Lidocaine 2% 100mg/5mL	IO	5 mg	0.25 mL	
Amiodarone (VF/pulseless VT) 50mg/mL	IV/IO	50 mg	1 mL	Lidocaine 2% (Cardiac arrest) 100mg/5mL	IV/IO	10 mg	0.5 mL	
**Amiodarone (VT w/ pulse) 50mg/mL	IV	50 mg Over 10 min	1 mL BHO	Midazolam (Seizure 1 <sup>st</sup> line) 5mg/mL	IM	2 mg	0.4 mL	
Atropine (Bradycardia) 1mg/mL	IV/IO	0.2 mg	0.2 mL	Midazolam (Seizure) 5mg/mL	IV/IO/IN	1 mg	0.2 mL	
Atropine (Bradycardia) 0.1mg/mL	IV/IO	0.2 mg	2 mL	**Midazolam (Cardioversion) 5mg/mL	IN/IV/IM	1 mg	0.2 mL BHO	
Atropine (Organophosphate) 1mg/mL	IV	0.2 mg	0.2 mL	**Morphine 4mg/mL	IV carpuject	1 mg	0.25 mL BHO <2yrs	
Atropine (Organophosphate) 0.1mg/mL	IV	0.2 mg	2 mL	**Morphine 10mg/10mL	IV carpuject	1 mg	1 mL BHO <2yrs	
Atropine (Organophosphate) 1mg/mL	IM	1 mg	1 mL	**Morphine 10mg/mL	IM	1 mg	0.1 mL BHO <2yrs	
Dextrose 10% 100 mg/mL	IV		50 mL	Naloxone 0.8mg/2mL	IN/IV/IM	0.8 mg	2 mL	
Diphenhydramine 50mg/mL	IV/IO/IM	10 mg	0.2 mL	Naloxone 1mg/mL	IN/IV/IM	1 mg	1 mL	
Epinephrine (Anaphylaxis) 1mg/mL (1:1000)	IM	0.1 mg	0.1 mL	Naloxone 4mg/0.1mL	IN		Single spray	
Epinephrine (Anaphylaxis) 0.1mg/mL (1:10,000)	IV/IO	0.1 mg	1 mL	Normal Saline 0.9% NaCl	IV/IO		200 mL	
Epinephrine (Cardiac arrest) 0.1mg/mL (1:10,000)	IV/IO	0.1 mg	1 mL	Normal Saline 0.9% NaCl	Neb		3 mL	
**Fentanyl 50mcg/mL	IN/IV/IM	20 mcg	0.4 mL BHO <2yrs	Ondansetron 4mg	ODT		N/A	
				Sodium Bicarbonate 1mEq/mL	IV/IO	10 mEq	10 mL	

\*\*Base Hospital Order All milliliters rounded

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**PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT**

12-14 KG 2 YEARS	Defibrillation (2-4 J/kg)		24-48 joules		Normal Vital Signs				12-14 KG 2 YEARS
	Cardioversion** (1 J/kg)		15 joules		HR: 90-140 Respirations:20-30 SBP: >80mmHg				
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs	
**Adenosine (1 <sup>st</sup> dose)	Rapid IV	1.2 mg	0.4 mL	Glucagon	IM	0.5 mg	0.5 mL		
3mg/mL			BHO	1mg/mL					
**Adenosine (2 <sup>nd</sup> dose)	Rapid IV	2.4 mg	0.8 mL	**Hydroxocobalamin	IV	840 mg	34 mL		
3mg/mL			BHO	25mg/mL		Over 15 min	BHO		
Albuterol	Neb	5 mg	6 mL	Lidocaine 2%	IO	6 mg	0.3 mL		
2.5mg/3mL				100mg/5mL					
Amiodarone (VF/pulseless VT)	IV/IO	70 mg	1.4 mL	Lidocaine 2% (Cardiac arrest)	IV/IO	12 mg	0.6 mL		
50mg/mL				100mg/5mL					
**Amiodarone (VT w/ pulse)	IV	70 mg	1.4 mL	Midazolam (Seizure 1 <sup>st</sup> line)	IM	2.4 mg	0.5 mL		
50mg/mL		Over 10 min.	BHO	5mg/mL					
Atropine (Bradycardia)	IV/IO	0.24 mg	0.24 mL	Midazolam (Seizure)	IV/IO/IN	1.2 mg	0.25 mL		
1mg/mL				5mg/mL					
Atropine (Bradycardia)	IV/IO	0.24 mg	2.4 mL	**Midazolam (Cardioversion)	IN/IV/IM	1.2 mg	0.25 mL		
0.1mg/mL				5mg/mL			BHO		
Atropine (Organophosphate)	IV	0.24 mg	0.24 mL	**Morphine	IV	1.2 mg	0.3 mL		
1mg/mL				4mg/mL	carpuject		BHO <2 yrs		
Atropine (Organophosphate)	IV	0.24 mg	2.4 mL	**Morphine	IV	1.2 mg	1.2 mL		
0.1mg/mL				10mg/10mL	carpuject		BHO <2 yrs		
Atropine (Organophosphate)	IM	1.2 mg	1.2 mL	**Morphine	IM	1.2 mg	0.12 mL		
1mg/mL				10mg/mL			BHO <2 yrs		
Dextrose 10%	IV	60 mL		Naloxone	IN/IV/IM	0.8 mg	2 mL		
100 mg/mL				0.8mg/2mL					
Diphenhydramine	IV/IO/IM	12 mg	0.25 mL	Naloxone	IN/IV/IM	1 mg	1 mL		
50mg/mL				1mg/mL					
Epinephrine (Anaphylaxis)	IM	0.12 mg	0.12 mL	Naloxone	IN	Single spray			
1mg/mL (1:1000)				4mg/0.1mL					
Epinephrine (Anaphylaxis)	IV/IO	0.12 mg	1.2 mL	Normal Saline	IV/IO	240 mL			
0.1mg/mL (1:10,000)				0.9% NaCl					
Epinephrine (Cardiac arrest)	IV/IO	0.12 mg	1.2 mL	Normal Saline	Neb	3 mL			
0.1mg/mL (1:10,000)				0.9% NaCl					
**Fentanyl	IN/IV/IM	24 mcg	0.5 mL	Ondansetron	ODT	N/A			
50mcg/mL			BHO <2 yrs	4mg					
				Sodium Bicarbonate	IV/IO	12 mEq	12 mL		
				1mEq/mL					

\*\*Base Hospital Order All milliliters rounded

15-18 KG 3-4 YEARS	Defibrillation (2-4 J/kg)		30-60 joules		Normal Vital Signs				15-18 KG 3-4 YEARS
	Cardioversion** (1 J/kg)		15 joules		HR: 80-130 Respirations: 20-30 SBP: >85mmHg				
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs	
**Adenosine (1 <sup>st</sup> dose)	Rapid IV	1.5 mg	0.5 mL	Glucagon	IM	0.5 mg	0.5 mL		
3mg/mL			BHO	1mg/mL					
**Adenosine (2 <sup>nd</sup> dose)	Rapid IV	3 mg	1 mL	**Hydroxocobalamin	IV	1050 mg	42 mL		
3mg/mL			BHO	25mg/mL		Over 15 min	BHO		
Albuterol	Neb	5 mg	6 mL	Lidocaine 2%	IO	7.5 mg	0.4 mL		
2.5mg/3mL				100mg/5mL					
Amiodarone (VF/pulseless VT)	IV/IO	75 mg	1.5 mL	Lidocaine 2% (Cardiac arrest)	IV/IO	15 mg	0.8 mL		
50mg/mL				100mg/5mL					
**Amiodarone (VT w/ pulse)	IV	75 mg	1.5 mL	Midazolam (Seizure 1 <sup>st</sup> line)	IM	3 mg	0.6 mL		
50mg/mL		Over 10 min.	BHO	5mg/mL					
Atropine (Bradycardia)	IV/IO	0.3 mg	0.3 mL	Midazolam (Seizure)	IV/IO/IN	1.5 mg	0.3 mL		
1mg/mL				5mg/mL					
Atropine (Bradycardia)	IV/IO	0.3 mg	3 mL	**Midazolam (Cardioversion)	IN/IV/IM	1.5 mg	0.3 mL		
0.1mg/mL				5mg/mL			BHO		
Atropine (Organophosphate)	IV	0.3 mg	0.3 mL	Morphine	IV	1.5 mg	0.4 mL		
1mg/mL				4mg/mL	carpuject				
Atropine (Organophosphate)	IV	0.3 mg	3 mL	Morphine	IV	1.5 mg	1.5 mL		
0.1mg/mL				10mg/10mL	carpuject				
Atropine (Organophosphate)	IM	1.5 mg	1.5 mL	Morphine	IM	1.5 mg	0.15mL		
1mg/mL				10mg/mL					
Dextrose 10%	IV	75 mL		Naloxone	IN/IV/IM	0.8 mg	2 mL		
0.1mg/mL				0.8mg/2mL					
Diphenhydramine	IV/IO/IM	15 mg	0.3 mL	Naloxone	IN/IV/IM	1 mg	1 mL		
50mg/mL				1mg/mL					
Epinephrine (Anaphylaxis)	IM	0.15 mg	0.15 mL	Naloxone	IN	Single spray			
1mg/mL (1:1000)				4mg/0.1mL					
Epinephrine (Anaphylaxis)	IV/IO	0.15 mg	1.5 mL	Normal Saline	IV/IO	250 mL			
0.1mg/mL (1:10,000)				0.9% NaCl					
Epinephrine (Cardiac arrest)	IV/IO	0.15 mg	1.5 mL	Normal Saline	Neb	3 mL			
0.1mg/mL (1:10,000)				0.9% NaCl					
Fentanyl	IN/IV/IM	30 mcg	0.6 mL	Ondansetron	ODT	4 mg			
50mcg/mL				4mg		Age 24 years			
				Sodium Bicarbonate	IV/IO	15 mEq	15 mL		
				1mEq/mL					

\*\*Base Hospital Order All milliliters rounded

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**PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT**

19-23 KG 5-6 YEARS	Defibrillation (2-4 J/kg)				Normal Vital Signs			
	Cardioversion** (1 J/kg)				HR: 70-120 Respirations: 15-30 SBP: >85mmHg			
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs
**Adenosine (1 <sup>st</sup> dose)	Rapid IV	2 mg	0.7 mL	Glucagon	IM	0.5 mg	0.5 mL	
3mg/mL			BHO	1mg/mL				
**Adenosine (2 <sup>nd</sup> dose)	Rapid IV	4 mg	1.3 mL	**Hydroxocobalamin	IV	1400 mg	56 mL	
3mg/mL			BHO	25mg/mL		Over 15 min	BHO	
Albuterol	Neb	5 mg	6 mL	Lidocaine 2%	IO	10 mg	0.5 mL	
2.5mg/3mL				100mg/5mL				
Amiodarone (VF/pulseless VT)	IV/IO	100 mg	2 mL	Lidocaine 2% (Cardiac arrest)	IV/IO	20 mg	1 mL	
50mg/mL				100mg/5mL				
**Amiodarone (VT w/ pulse)	IV	100 mg	2 mL	Midazolam (Seizure 1 <sup>st</sup> line)	IM	4 mg	0.8 mL	
50mg/mL		Over 10 min.	BHO	5mg/mL				
Atropine (Bradycardia)	IV/IO	0.4 mg	0.4 mL	Midazolam (Seizure)	IV/IO/IN	2 mg	0.4 mL	
1mg/mL				5mg/mL				
Atropine (Bradycardia)	IV/IO	0.4 mg	4 mL	**Midazolam (Cardioversion)	IN/IV/IM	2 mg	0.4 mL	
0.1mg/mL				5mg/mL			BHO	
Atropine (Organophosphate)	IV	0.4 mg	0.4 mL	Morphine	IV	2 mg	0.5 mL	
1mg/mL				4mg/mL	carpuject			
Atropine (Organophosphate)	IV	0.4 mg	4 mL	Morphine	IV	2 mg	2 mL	
0.1mg/mL				10mg/10mL	carpuject			
Atropine (Organophosphate)	IM	2 mg	2 mL	Morphine	IM	2 mg	0.2 mL	
1mg/mL				10mg/mL				
Dextrose 10%	IV	100 mL		Naloxone	IN/IV/IM	0.8 mg	2 mL	
100 mg/mL				0.8mg/2mL				
Diphenhydramine	IV/IO/IM	20 mg	0.4 mL	Naloxone	IN/IV/IM	1 mg	1 mL	
50mg/mL				1mg/mL				
Epinephrine (Anaphylaxis)	IM	0.2 mg	0.2 mL	Naloxone	IN	Single spray		
1mg/mL (1:1000)				4mg/0.1mL				
Epinephrine (Anaphylaxis)	IV/IO	0.2 mg	2 mL	Normal Saline	IV/IO	250 mL		
0.1mg/mL (1:10,000)				0.9% NaCl				
Epinephrine (Cardiac arrest)	IV/IO	0.2 mg	2 mL	Normal Saline	Neb	3 mL		
0.1mg/mL (1:10,000)				0.9% NaCl				
Fentanyl	IN/IV/IM	40 mcg	0.8 mL	Ondansetron	ODT	4 mg		
50mcg/mL				4mg				
				Sodium Bicarbonate	IV/IO	20 mEq	20 mL	
				1mEq/mL				

19-23 KG  
5-6 YEARS

\*\*Base Hospital Order

All milliliters rounded

24-29 KG 7-8 YEARS	Defibrillation (2-4 J/kg)				Normal Vital Signs			
	Cardioversion** (1 J/kg)				HR: 70-110 Respirations: 15-30 SBP: >90mmHg			
	Medication Concentration	Route	Dose	mLs	Medication Concentration	Route	Dose	mLs
**Adenosine (1 <sup>st</sup> dose)	Rapid IV	2.5 mg	0.85 mL	Glucagon	IM	0.5 mg	0.5 mL	
3mg/mL			BHO	1mg/mL				
**Adenosine (2 <sup>nd</sup> dose)	Rapid IV	5 mg	1.7 mL	**Hydroxocobalamin	IV	1820 mg	73 mL	
3mg/mL			BHO	25mg/mL		Over 15 min	BHO	
Albuterol	Neb	5 mg	6 mL	Lidocaine 2%	IO	13 mg	0.65 mL	
2.5mg/3mL				100mg/5mL				
Amlodarone (VF/pulseless VT)	IV/IO	125 mg	2.5 mL	Lidocaine 2% (Cardiac arrest)	IV/IO	25 mg	1.3 mL	
50mg/mL				100mg/5mL				
**Amiodarone (VT w/ pulse)	IV	125 mg	2.5 mL	Midazolam (Seizure 1 <sup>st</sup> line)	IM	5 mg	1 mL	
50mg/mL		Over 10 min	BHO	5mg/mL				
Atropine (Bradycardia)	IV/IO	0.5 mg	0.5 mL	Midazolam (Seizure)	IV/IO/IN	2.5 mg	0.5 mL	
1mg/mL				5mg/mL				
Atropine (Bradycardia)	IV/IO	0.5 mg	5 mL	**Midazolam (Cardioversion)	IN/IV/IM	2.5 mg	0.5 mL	
0.1mg/mL				5mg/mL			BHO	
Atropine (Organophosphate)	IV	0.5 mg	0.5 mL	Morphine	IV	2.5 mg	0.65 mL	
1mg/mL				4mg/mL	carpuject			
Atropine (Organophosphate)	IV	0.5 mg	5 mL	Morphine	IV	2.5 mg	2.5 mL	
0.1mg/mL				10mg/10mL	carpuject			
Atropine (Organophosphate)	IM	2 mg	2 mL	Morphine	IM	2.5 mg	0.25 mL	
1mg/mL				10mg/mL				
Dextrose 10%	IV	130 mL		Naloxone	IN/IV/IM	0.8 mg	2 mL	
100 mg/mL				0.8mg/2mL				
Diphenhydramine	IV/IO/IM	25mg	0.5 mL	Naloxone	IN/IV/IM	1 mg	1 mL	
50mg/mL				1mg/mL				
Epinephrine (Anaphylaxis)	IM	0.25 mg	0.25 mL	Naloxone	IN	Single spray		
1mg/mL (1:1000)				4mg/0.1mL				
Epinephrine (Anaphylaxis)	IV/IO	0.25 mg	2.5 mL	Normal Saline	IV/IO	250 mL		
0.1mg/mL (1:10,000)				0.9% NaCl				
Epinephrine (Cardiac arrest)	IV/IO	0.25 mg	2.5 mL	Normal Saline	Neb	3 mL		
0.1mg/mL (1:10,000)				0.9% NaCl				
Fentanyl	IN/IV/IM	50 mcg	1 mL	Ondansetron	ODT	4 mg		
50mcg/mL				4mg				
				Sodium Bicarbonate	IV/IO	25 mEq	25 mL	
				1mEq/mL				

24-29 KG  
7-8 YEARS

\*\*Base Hospital Order

All milliliters rounded

Approved:

*Carl Schultz, MD*

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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

Medication Concentration	70-140 joules			Normal Vital Signs			
	Route	Dose	mLs	HR: 60-100	Respirations: 15-20	SBP: >90mmHg	
				Medication Concentration	Route	Dose	mLs
**Adenosine (1 <sup>st</sup> dose) 3mg/mL	Rapid IV	3.5 mg	1.2 mL BHO	Glucagon 1mg/mL	IM	0.5 mg	0.5 mL
**Adenosine (2 <sup>nd</sup> dose) 3mg/mL	Rapid IV	7 mg	2.4 mL BHO	**Hydroxocobalamin 25mg/mL	IV	2380 mg Over 15 min	95 mL BHO
Albuterol 2.5mg/3mL	Neb	5 mg	6 mL	Lidocaine 2% 100mg/5mL	IO	17 mg	0.85 mL
Amiodarone (VF/pulseless VT) 50mg/mL	IV/IO	175 mg	3.5 mL	Lidocaine 2% (Cardiac arrest) 100mg/5mL	IV/IO	35 mg	1.8 mL
**Amiodarone (VT w/ pulse) 50mg/mL	IV	150 mg Over 10 min.	3 mL BHO	Midazolam (Seizure 1 <sup>st</sup> line) 5mg/mL	IM	7 mg	1.4 mL
Atropine (Bradycardia) 1mg/mL	IV/IO	0.5 mg	0.5 mL	Midazolam (Seizure) 5mg/mL	IV/IO/IN	3.5 mg	0.7 mL
Atropine (Bradycardia) 0.1mg/mL	IV/IO	0.5 mg	5 mL	**Midazolam (Cardioversion) 5mg/mL	IN/IV/IM	3.5 mg	0.7 mL BHO
Atropine (Organophosphate) 1mg/mL	IV	0.7 mg	0.7 mL	Morphine 4mg/mL	IV carpuject	3.5 mg	0.85 mL
Atropine (Organophosphate) 0.1mg/mL	IV	0.7 mg	7 mL	Morphine 10mg/10mL	IV carpuject	3.5 mg	3.5 mL
Atropine (Organophosphate) 1mg/mL	IM	2 mg	2 mL	Morphine 10mg/mL	IM	3.5 mg	0.35 mL
Dextrose 10% 100 mg/mL	IV		175 mL	Naloxone 0.8mg/2mL	IN/IV/IM	0.8 mg	2 mL
Diphenhydramine 50mg/mL	IV/IO/IM	35 mg	0.7 mL	Naloxone 1mg/mL	IN/IV/IM	1 mg	1 mL
Epinephrine (Anaphylaxis) 1mg/mL (1:1000)	IM	0.35 mg	0.35 mL	Naloxone 4mg/0.1mL	IN	Single spray	
Epinephrine (Anaphylaxis) 0.1mg/mL (1:10,000)	IV/IO	0.3 mg	3 mL	Normal Saline 0.9% NaCl	IV/IO	250 mL	
Epinephrine (Cardiac arrest) 0.1mg/mL (1:10,000)	IV/IO	0.35 mg	3.5 mL	Normal Saline 0.9% NaCl	Neb	3 mL	
Fentanyl 50mcg/mL	IN/IV/IM	50 mcg	1 mL	Ondansetron 4mg	ODT	4 mg	
				Sodium Bicarbonate 1mEq/mL	IV/IO	35 mEq	35 mL

30-36 KG  
9-12 YEARS

30-36 KG  
9-12 YEARS

Updated 06.07.2023

\*\*Base Hospital Order All milliliters rounded

Medication Concentration	80-160 joules			Normal Vital Signs			
	Route	Dose	mLs	HR: 60-100	Respirations: 15-20	SBP: >90mmHg	
				Medication Concentration	Route	Dose	mLs
**Adenosine (1 <sup>st</sup> dose) 3mg/mL	Rapid IV	4.5 mg	1.5 mL BHO	Glucagon 1mg/mL	IM	0.5 mg	0.5 mL
**Adenosine (2 <sup>nd</sup> dose) 3mg/mL	Rapid IV	9 mg	3 mL BHO	**Hydroxocobalamin 25mg/mL	IV	3,150 mg Over 15 min	126 mL BHO
Albuterol 2.5mg/3mL	Neb	5 mg	6 mL	Lidocaine 2% 100mg/5mL	IO	20 mg	1 mL
Amiodarone (VF/pulseless VT) 50mg/mL	IV/IO	225 mg	4.5 mL	Lidocaine 2% (Cardiac arrest) 100mg/5mL	IV/IO	45 mg	2.3 mL
**Amiodarone (VT w/ pulse) 50mg/mL	IV	150 mg Over 10 min.	3 mL BHO	Midazolam (Seizure 1 <sup>st</sup> line) 5mg/mL	IM	9 mg	1.8 mL
Atropine (Bradycardia) 1mg/mL	IV/IO	0.5 mg	0.5 mL	Midazolam (Seizure) 5mg/mL	IV/IO/IN	4.5 mg	0.9 mL
Atropine (Bradycardia) 0.1mg/mL	IV/IO	0.5 mg	5 mL	**Midazolam (Cardioversion) 5mg/mL	IN/IV/IM	4.5 mg	0.9 mL BHO
Atropine (Organophosphate) 1mg/mL	IV	0.9 mg	0.9 mL	Morphine 4mg/mL	IV carpuject	4 mg	1 mL
Atropine (Organophosphate) 0.1mg/mL	IV	0.9 mg	9 mL	Morphine 10mg/10mL	IV carpuject	4.5 mg	4.5 mL
Atropine (Organophosphate) 1mg/mL	IM	2 mg	2 mL	Morphine 10mg/mL	IM	4.5 mg	0.45 mL
Dextrose 10% 0.1mg/mL	IV		225 mL	Naloxone 0.8mg/2mL	IN/IV/IM	0.8 mg	2 mL
Diphenhydramine 50mg/mL	IV/IO/IM	45 mg	0.9 mL	Naloxone 1mg/mL	IN/IV/IM	1 mg	1 mL
Epinephrine (Anaphylaxis) 1mg/mL (1:1000)	IM	0.45 mg	0.45 mL	Naloxone 4mg/0.1mL	IN	Single spray	
Epinephrine (Anaphylaxis) 0.1mg/mL (1:10,000)	IV/IO	0.3 mg	3 mL	Normal Saline 0.9% NaCl	IV/IO	250 mL	
Epinephrine (Cardiac arrest) 0.1mg/mL (1:10,000)	IV/IO	0.45 mg	4.5 mL	Normal Saline 0.9% NaCl	Neb	3 mL	
Fentanyl 50mcg/mL	IN/IV/IM	50 mcg	1 mL	Ondansetron 4mg	ODT	4 mg	
				Sodium Bicarbonate 1mEq/mL	IV/IO	45 mEq	45 mL

37-49 KG (too tall for Broselow)  
13-14 YEARS

37-49 KG (too tall for Broselow)  
13-14 YEARS

Updated 06.07.2023

\*\*Base Hospital Order All milliliters rounded

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*Carol Schultz, MD*

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