PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

Age: Neonate 0 - 30 days **Normal Vital Signs: Heart Rate:** 100 - 180 **Respiration:** 30 - 60 **Systolic BP:** > 60

Cardioversion: 4 joules **Defibrillation:** 8 joules, 16 joules, 16 joules

GRAY

3 - 5 KG 0 - 30 DAYS

Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	0.4 mg	0.1 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	0.8 mg	0.3 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	2.5 mg	3 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	20 mg	0.4 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	20 mg	0.4 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.1 mg	0.1 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.1 mg	1 mL
Atropine 1 mg/mL	Organophosphate	IV	0.1 mg	0.1 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.1 mg	1 mL
Atropine 1 mg/mL	Organophosphate	IM	0.4 mg	0.4 mL
Dextrose 10%	Hypoglycemia	IV	N/A	20 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	4 mg	0.1 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.04 mg	0.04 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.04 mg	0.4 mL
*Epinephrine Push Dose	Hypotension	IV/IO	4 mcg	0.4 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.04 mg	0.4 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.04 mg	0.04 mL
*Fentanyl 50 mcg/mL	Pain	IV/IM	8 mcg	0.2 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL

3 - 5 KG 0 - 30 DAYS

Medication	Indication	Route	Dose	mLs
Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A	N/A
Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	2 mg	0.15 mL
Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	4 mg	0.2 mL
Midazolam 5 mg/mL	**Seizure 1st line**	IM	0.8 mg	0.16 mL
Midazolam 5 mg/mL	Seizure	IV/IO/IN	0.4 mg	0.1 mL
Midazolam 5 mg/mL	ETT	IV/IO/IM	0.4 mg	0.1 mL
*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	0.8 mg	0.16 mL
*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	0.4 mg	0.1 mL
*Morphine 4 mg/mL	Pain	IV Carpuject	0.4 mg	0.1 mL
*Morphine 10 mg/10 mL	Pain	IV Carpuject	0.4 mg	0.4 mL
*Morphine 10 mg/mL	Pain	IM	0.4 mg	0.05 mL
Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.4 mg	1 mL
Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	0.4 mg	0.4 mL
Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
Normal Saline 0.9%	Hypotension	IV/IO	N/A	80 mL
Normal Saline 0.9%	Croup	Neb	N/A	3 mL
Ondansetron 4 mg	Nausea/vomiting	ODT	N/A	N/A
Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	N/A	N/A
Sodium Bicarbonate	Crush Injury	IV/IO	4 mEq	4 mL
*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	60 mg	0.6 mL

3 - 5 KG 0 - 30 DAYS

*Base Hospital Order All milliliters rounded

Approved: [signature] MD

Review Dates: 7/21; 9/22; 6/23; 3/25; 3/26
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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

PINK — **6 - 7 KG** — **3 MONTHS**

Age: 3 months **Normal Vital Signs: Heart Rate:** 100 - 160 **Respiration:** 30 - 60 **Systolic BP:** > 60

Cardioversion: 6 joules **Defibrillation:** 12 joules, 24 joules, 24 joules

Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	0.6 mg	0.2 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A	N/A
*Adenosine 3 mg/mL	2nd dose	Rapid IV	1.2 mg	0.4 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	3 mg	0.15 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	6 mg	0.3 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	30 mg	0.6 mL	Midazolam 5 mg/mL	**Seizure 1st line**	IM	1.2 mg	0.25 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	30 mg	0.6 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	0.6 mg	0.1 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.14 mg	0.14 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	0.6 mg	0.1 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.14 mg	1.4 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	1.2 mg	0.25 mL
Atropine 1 mg/mL	Organophosphate	IV	0.14 mg	0.14 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	0.6 mg	0.1 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.14 mg	1.4 mL	*Morphine 4 mg/mL	Pain	IV Carpuject	0.6 mg	0.15 mL
Atropine 1 mg/mL	Organophosphate	IM	0.6 mg	0.6 mL	*Morphine 10 mg/10 mL	Pain	IV Carpuject	0.6 mg	0.6 mL
Dextrose 10%	Hypoglycemia	IV	N/A	30 mL	*Morphine 10 mg/mL	Pain	IM	0.6 mg	0.05 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	6 mg	0.1 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.6 mg	1.5 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.06 mg	0.06 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	0.6 mg	0.6 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.06 mg	0.6 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	7 mcg	0.7 mL	Normal Saline 0.9%	Hypotension	IV/IO	N/A	120 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.06 mg	0.6 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.06 mg	0.06 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	N/A	N/A
*Fentanyl 50 mcg/mL	Pain	IV/IM	12 mcg	0.25 mL	Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	0.6 mg	0.3 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	6 mEq	6 mL
					*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	90 mg	0.9 mL

*Base Hospital Order All milliliters rounded

PINK — **6 - 7 KG** — **3 MONTHS**

3 MONTHS — **6 - 7 KG**

Approved: [signature] MD

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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

6 MONTHS 8 - 9 KG — **RED 8 - 9 KG 6 MONTHS**

Age: 6 months | Normal Vital Signs: Heart Rate: 100 - 160 | Respiration: 30 - 60 | Systolic BP: > 60

Cardioversion: 8 joules | Defibrillation: 16 joules, 32 joules, 32 joules

Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	0.8 mg	0.3 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A	N/A
*Adenosine 3 mg/mL	2nd dose	Rapid IV	1.6 mg	0.5 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	4 mg	0.2 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	8 mg	0.4 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	40 mg	0.8 mL	Midazolam 5 mg/mL	**Seizure 1st line**	IM	1.6 mg	0.32 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	40 mg	0.8 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	0.8 mg	0.16 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.16 mg	0.16 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	0.8 mg	0.16 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.16 mg	1.6 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	1.6 mg	0.32 mL
Atropine 1 mg/mL	Organophosphate	IV	0.16 mg	0.16 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	0.8 mg	0.16 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.16 mg	1.6 mL	*Morphine 4 mg/mL	Pain	IV Carpuject	0.8 mg	0.2 mL
Atropine 1 mg/mL	Organophosphate	IM	0.8 mg	0.8 mL	*Morphine 10 mg/10 mL	Pain	IV Carpuject	0.8 mg	0.8 mL
Dextrose 10%	Hypoglycemia	IV	N/A	40 mL	*Morphine 10 mg/mL	Pain	IM	0.8 mg	0.08 mL
Diphenhydramine	Allergic Reaction	IV/IM	8 mg	0.15 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.08 mg	0.08 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	0.8 mg	0.8 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.08 mg	0.8 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	9 mcg	0.9 mL	Normal Saline 0.9%	Hypotension	IV/IO	N/A	160 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.08 mg	0.8 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.08 mg	0.08 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	N/A	N/A
*Fentanyl 50 mcg/mL	Pain	IV/IM	16 mcg	0.3 mL	Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	0.8 mg	0.4 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	8 mEq	8 mL
					*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	120 mg	1.2 mL

*Base Hospital Order All milliliters rounded

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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

10 - 11 KG 1 YEAR

Age: 1 year Normal Vital Signs: Heart Rate: 90 - 150 Respiration: 24 - 40 Systolic BP: > 70

Cardioversion: 10 joules Defibrillation: 20 joules, 40 joules, 40 joules

Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	1 mg	0.3 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	2 mg	0.7 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	50 mg	1 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	50 mg	1 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.2 mg	0.2 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.2 mg	2 mL
Atropine 1 mg/mL	Organophosphate	IV	0.2 mg	0.2 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.2 mg	2 mL
Atropine 1 mg/mL	Organophosphate	IM	1 mg	1 mL
Dextrose 10%	Hypoglycemia	IV	N/A	50 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	10 mg	0.2 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.1 mg	0.1 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.1 mg	1 mL
*Epinephrine Push Dose	Hypotension	IV/IO	10 mcg	1 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.1 mg	1 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.1 mg	0.1 mL
*Fentanyl 50 mcg/mL	Pain	IV/IM	20 mcg	0.4 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL

PURPLE 10 - 11 KG 1 YEAR

Medication	Indication	Route	Dose	mLs
Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A	N/A
Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	5 mg	0.25 mL
Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	10 mg	0.5 mL
Midazolam 5 mg/mL	**Seizure 1st line**	IM	2 mg	0.4 mL
Midazolam 5 mg/mL	Seizure	IV/IO/IN	1 mg	0.2 mL
Midazolam 5 mg/mL	ETT	IV/IO/IM	1 mg	0.2 mL
*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	2 mg	0.4 mL
*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	1 mg	0.2 mL
*Morphine 4 mg/mL	Pain	IV Carpuject	1 mg	0.25 mL
*Morphine 10 mg/10 mL	Pain	IV Carpuject	1 mg	1 mL
*Morphine 10 mg/mL	Pain	IM	1 mg	0.1 mL
Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL
Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
Normal Saline 0.9%	Hypotension	IV/IO	N/A	200 mL
Normal Saline 0.9%	Croup	Neb	N/A	3 mL
Ondansetron 4 mg	Nausea/vomiting	ODT	N/A	N/A
Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	1 mg	0.5 mL
Sodium Bicarbonate	Crush Injury	IV/IO	10 mEq	10 mL
*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	150 mg	1.5 mL

*Base Hospital Order All milliliters rounded

Approved: [signature] MD

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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

YELLOW

12 - 14 KG 2 YEARS

Age: 2 years Normal Vital Signs: Heart Rate: 90 - 150 Respiration: 24 - 40 Systolic BP: > 70

Cardioversion: 15 joules Defibrillation: 24 joules, 48 joules, 48 joules

Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	1.2 mg	0.4 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	2.4 mg	0.8 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	70 mg	1.4 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	70 mg	1.4 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.24 mg	0.24 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.24 mg	2.4 mL
Atropine 1 mg/mL	Organophosphate	IV	0.24 mg	0.24 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.24 mg	2.4 mL
Atropine 1 mg/mL	Organophosphate	IM	1.2 mg	1.2 mL
Dextrose 10%	Hypoglycemia	IV		60 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	12 mg	0.25 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.12 mg	0.12 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.12 mg	1.2 mL
*Epinephrine Push Dose	Hypotension	IV/IO	10 mcg	1 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.12 mg	1.2 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.12 mg	0.12 mL
*Fentanyl 50 mcg/mL	Pain	IV/IM	24 mcg	0.5 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL

Medication	Indication	Route	Dose	mLs
Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A	N/A
Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	6 mg	0.3 mL
Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	12 mg	0.6 mL
Midazolam 5 mg/mL	**Seizure 1st line**	IM	2.4 mg	0.5 mL
Midazolam 5 mg/mL	Seizure	IV/IO/IN	1.2 mg	0.25 mL
Midazolam 5 mg/mL	ETT	IV/IO/IM	1.2 mg	0.25 mL
*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	2.4 mg	0.5 mL
*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	1.2 mg	0.25 mL
*Morphine 4 mg/mL	Pain	IV Carpuject	1.2 mg	0.3 mL
*Morphine 10 mg/10 mL	Pain	IV Carpuject	1.2 mg	1.2 mL
*Morphine 10 mg/mL	Pain	IM	1.2 mg	0.12 mL
Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL
Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
Normal Saline 0.9%	Hypotension	IV/IO		240 mL
Normal Saline 0.9%	Croup	Neb	N/A	3 mL
Ondansetron 4 mg	Nausea/vomiting	ODT	N/A	N/A
Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	1.2 mg	0.6 mL
Sodium Bicarbonate	Crush Injury	IV/IO	12 mEq	12 mL
*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	180 mg	1.8 mL

12 - 14 KG 2 YEARS

*Base Hospital Order All milliliters rounded

Approved: [signature] MD

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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

WHITE
15 - 18 KG
3 - 4 YEARS

Age: 3 - 4 years Normal Vital Signs: Heart Rate: 80 - 140 Respiration: 22 - 34 Systolic BP: > 75

Cardioversion: 15 joules Defibrillation: 30 joules, 60 joules, 60 joules

Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	1.5 mg	0.5 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	4.5 mg	0.3 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	3 mg	1 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	7.5 mg	0.4 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	15 mg	0.8 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	75 mg	1.5 mL	Midazolam 5 mg/mL	**Seizure 1st line**	IM	3 mg	0.6 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	75 mg	1.5 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	1.5 mg	0.3 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.3 mg	0.3 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	1.5 mg	0.3 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.3 mg	3 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	3 mg	0.6 mL
Atropine 1 mg/mL	Organophosphate	IV	0.3 mg	0.3 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	1.5 mg	0.3 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.3 mg	3 mL	Morphine 4 mg/mL	Pain	IV Carpuject	1.5 mg	0.4 mL
Atropine 1 mg/mL	Organophosphate	IM	1.5 mg	1.5 mL	Morphine 10 mg/10 mL	Pain	IV Carpuject	1.5 mg	1.5 mL
Dextrose 10%	Hypoglycemia	IV		75 mL	Morphine 10 mg/mL	Pain	IM	1.5 mg	0.15 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	15 mg	0.3 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.15 mg	0.15 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.15 mg	1.5 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	10 mcg	1 mL	Normal Saline 0.9%	Hypotension	IV/IO	N/A	250 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.15 mg	1.5 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.15 mg	0.15 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	4 mg	N/A
Fentanyl 50 mcg/mL	Pain	IV/IM	30 mcg	0.6 mL	Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	1.5 mg	0.8 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	15 mEq	15 mL
					*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	225 mg	2.3 mL

*Base Hospital Order All milliliters rounded

WHITE
15 - 18 KG
3 - 4 YEARS

Approved: [signature] MD

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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

BLUE

19 – 23 KG 5 - 6 YEARS

Age: 5 - 6 years Normal Vital Signs: Heart Rate: 70 - 120 Respiration: 18 - 30 Systolic BP: > 80

Cardioversion: 20 joules Defibrillation: 40 joules, 80 joules, 80 joules

Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	2 mg	0.7 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	5.5 mg	0.4 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	4 mg	1.3 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	10 mg	0.5 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	20 mg	1 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	100 mg	2 mL	Midazolam 5 mg/mL	**Seizure 1st line**	IM	4 mg	0.8 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	100 mg	2 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	2 mg	0.4 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.4 mg	0.4 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	2 mg	0.4 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.4 mg	4 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	4 mg	0.8 mL
Atropine 1 mg/mL	Organophosphate	IV	0.4 mg	0.4 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	2 mg	0.4 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.4 mg	4 mL	Morphine 4 mg/mL	Pain	IV Carpuject	2 mg	0.5 mL
Atropine 1 mg/mL	Organophosphate	IM	2 mg	2 mL	Morphine 10 mg/10 mL	Pain	IV Carpuject	2 mg	2 mL
Dextrose 10%	Hypoglycemia	IV		100 mL	Morphine 10 mg/mL	Pain	IM	2 mg	0.2 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	20 mg	0.4 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.2 mg	0.2 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.2 mg	2 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	10 mcg	1 mL	Normal Saline 0.9%	Hypotension	IV/IO	N/A	250 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.2 mg	2 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.2 mg	0.2 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	4 mg	N/A
Fentanyl 50 mcg/mL	Pain	IV/IM	40 mcg	0.8 mL	Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	2 mg	1 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	20 mEq	20 mL
					*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	300 mg	3 mL

*Base Hospital Order All milliliters rounded

19 – 23 KG 5 - 6 YEARS

Approved: [signature] MD

Review Dates: 7/21; 9/22; 6/23; 3/25; 3/26
Final Date for Implementation: 04/01/2027

PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

ORANGE 7 - 8 YEARS 24 - 29 KG

Age: 7 - 8 years Normal Vital Signs: Heart Rate: 70 - 120 Respiration: 18 - 30 Systolic BP: > 80

Cardioversion: 30 joules Defibrillation: 50 joules, 100 joules, 100 joules

Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	2.5 mg	0.85 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	7 mg	0.5 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	5 mg	1.7 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	13 mg	0.65 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	25 mg	1.3 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	125 mg	2.5 mL	Midazolam 5 mg/mL	**Seizure 1st line**	IM	5 mg	1 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	125 mg	2.5 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	2.5 mg	0.5 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.5 mg	0.5 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	2.5 mg	0.5 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.5 mg	5 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	5 mg	1 mL
Atropine 1 mg/mL	Organophosphate	IV	0.5 mg	0.5 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	2.5 mg	0.5 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.5 mg	5 mL	Morphine 4 mg/mL	Pain	IV Carpuject	2.5 mg	0.65 mL
Atropine 1 mg/mL	Organophosphate	IM	2 mg	2 mL	Morphine 10 mg/10 mL	Pain	IV Carpuject	2.5 mg	2.5 mL
Dextrose 10%	Hypoglycemia	IV		130 mL	Morphine 10 mg/mL	Pain	IM	2.5 mg	0.25 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	25 mg	0.5 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.25 mg	0.25 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.25 mg	2.5 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	10 mcg	1 mL	Normal Saline 0.9%	Hypotension	IV/IO	N/A	250 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.25 mg	2.5 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.25 mg	0.25 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	4 mg	N/A
Fentanyl 50 mcg/mL	Pain	IV/IM	50 mcg	1 mL	Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	2.5 mg	1.3 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	25 mEq	25 mL
					*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	375 mg	3.8 mL

*Base Hospital Order All milliliters rounded

ORANGE 24 - 29 KG 7 - 8 YEARS

Approved: KShaikh MD

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PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

GREEN

30 – 36 KG 9 – 12 YEARS

30 - 36 KG 9 - 12 YEARS

Age: 9 - 12 years Normal Vital Signs: Heart Rate: 60 - 100 Respiration: 12 - 16 Systolic BP: > 90

Cardioversion: 30 joules Defibrillation: 70 joules, 140 joules, 140 joules

Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	3.5 mg	1.2 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	9 mg	0.6 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	7 mg	2.4 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	17 mg	0.85 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	35 mg	1.8 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	175 mg	3.5 mL	Midazolam 5 mg/mL	**Seizure 1st line**	IM	7 mg	1.4 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	150 mg	3 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	3.5 mg	0.7 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.5 mg	0.5 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	3.5 mg	0.7 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.5 mg	5 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	7 mg	1.4 mL
Atropine 1 mg/mL	Organophosphate	IV	0.7 mg	0.7 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	3.5 mg	0.7 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.7 mg	7 mL	Morphine 4 mg/mL	Pain	IV Carpuject	3.5 mg	0.85 mL
Atropine 1 mg/mL	Organophosphate	IM	2 mg	2 mL	Morphine 10 mg/10 mL	Pain	IV Carpuject	3.5 mg	3.5 mL
Dextrose 10%	Hypoglycemia	IV		175 mL	Morphine 10 mg/mL	Pain	IM	3.5 mg	0.35 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	35 mg	0.7 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.35 mg	0.35 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.3 mg	3 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	10 mcg	1 mL	Normal Saline 0.9%	Hypotension	IV/IO	N/A	250 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.35 mg	3.5 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.35 mg	0.35 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	4 mg	N/A
Fentanyl 50 mcg/mL	Pain	IV/IM	50 mcg	1 mL	Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	3.5 mg	1.8 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	35 mEq	35 mL
					*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	525 mg	5.3 mL

*Base Hospital Order All milliliters rounded

Approved: J Shaikh MD

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ORANGE COUNTY EMERGENCY MEDICAL SERVICES
PREHOSPITAL ALS STANDING ORDERS

PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

Age: 13 - 14 years Normal Vital Signs: Heart Rate: 60 - 100 Respiration: 12 - 16 Systolic BP: > 90
Cardioversion: 40 joules Defibrillation: 80 joules, 160 joules, 160 joules

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

Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1st dose	Rapid IV	4.5 mg	1.5 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	12.5 mg	0.8 mL
*Adenosine 3 mg/mL	2nd dose	Rapid IV	9 mg	3 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	20 mg	1 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	45 mg	2.3 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	225 mg	4.5 mL	Midazolam 5 mg/mL	**Seizure 1st line**	IM	9 mg	1.8 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	150 mg	3 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	4.5 mg	0.9 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.5 mg	0.5 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	4.5 mg	0.9 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.5 mg	5 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	9 mg	1.8 mL
Atropine 1 mg/mL	Organophosphate	IV	0.9 mg	0.9 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	4.5 mg	0.9 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.9 mg	9 mL	Morphine 4 mg/mL	Pain	IV Carpuject	4.5 mg	1 mL
Atropine 1 mg/mL	Organophosphate	IM	2 mg	2 mL	Morphine 10 mg/10 mL	Pain	IV Carpuject	4.5 mg	4.5 mL
Dextrose 10%	Hypoglycemia	IV		225 mL	Morphine 10 mg/mL	Pain	IM	4.5 mg	0.45 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	45 mg	0.9 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.45 mg	0.45 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.3 mg	3 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	10 mcg	1 mL	Normal Saline 0.9%	Hypotension	IV/IO	N/A	250 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.45 mg	4.5 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.45 mg	0.45 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	4 mg	N/A
Fentanyl 50 mcg/mL	Pain	IV/IM	50 mcg	1 mL	Ondansetron 4 mg/2 mL	Nausea/vomiting	IV	4 mg	2 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	45 mEq	45 mL
					*TXA 1 gram/10 mL Over 10 minutes	Hemorrhagic Shock	IV/IO	675 mg	6.8 mL

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

*Base Hospital Order All milliliters rounded

Approved: [signature] MD

Review Dates: 7/21; 9/22; 6/23; 3/25; 3/26
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