



ORANGE COUNTY EMERGENCY MEDICAL SERVICES
PREHOSPITAL ALS STANDING ORDERS

PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

**This is a draft document
for Oct 2026 updates.**

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Org Date: 7/20
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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				
Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1 st dose	Rapid IV	0.4 mg	0.1 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A	N/A
*Adenosine 3 mg/mL	2 nd dose	Rapid IV	0.8 mg	0.3 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	2 mg	0.15 mL
Albuterol 2.5 mg/3mL	Wheezing	Neb	2.5 mg	3 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	4 mg	0.2 mL
Amiodarone 50 mg/mL	VF/pVT	IV/IO	20 mg	0.4 mL	Midazolam 5 mg/mL	Seizure 1 st line	IM	0.8 mg	0.16 mL
*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	20 mg	0.4 mL	Midazolam 5 mg/mL	Seizure	IV/IO/IN	0.4 mg	0.1 mL
Atropine 1 mg/mL	Bradycardia	IV/IO	0.1 mg	0.1 mL	Midazolam 5 mg/mL	ETT	IV/IO/IM	0.4 mg	0.1 mL
Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.1 mg	1 mL	*Midazolam 5 mg/mL	Toxic Delirium	IV/IO	0.8 mg	0.16 mL
Atropine 1 mg/mL	Organophosphate	IV	0.1 mg	0.1 mL	*Midazolam 5 mg/mL	Cardioversion	IN/IV/IM	0.4 mg	0.1 mL
Atropine 0.1 mg/mL	Organophosphate	IV	0.1 mg	1 mL	*Morphine 4 mg/mL	Pain	IV Carpuject	0.4 mg	0.1 mL
Atropine 1 mg/mL	Organophosphate	IM	0.4 mg	0.4 mL	*Morphine 10 mg/10 mL	Pain	IV Carpuject	0.4 mg	0.4 mL
Dextrose 10%	Hypoglycemia	IV	N/A	20 mL	*Morphine 10 mg/mL	Pain	IM	0.4 mg	0.05 mL
Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	4 mg	0.1 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.4 mg	1 mL
Epinephrine 1 mg/mL	Anaphylaxis	IM	0.04 mg	0.04 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	0.4 mg	0.4 mL
Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.04 mg	0.4 mL	Naloxone 4 mg/0.1 mL	Narcotic OD	IN	4 mg	1 Spray
*Epinephrine Push Dose	Hypotension	IV/IO	4 mcg	0.4 mL	Normal Saline 0.9%	Fluid Bolus	IV/IO	N/A	80 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.04 mg	0.4 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL
*Epinephrine 1 mg/mL	Asthma	IM	0.04 mg	0.04 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	N/A	N/A
*Fentanyl 50 mcg/mL	Pain	IV/IM	8 mcg	0.2 mL	Sodium Bicarbonate	Crush Injury	IV/IO	4 mEq	4 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO		
*Base Hospital Order All milliliters rounded									

GRAY

3 - 5 KG

0 - 30 DAYS

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3 MONTHS
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6 MONTHS <

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1 YEAR 10 - 11 KG	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										PURPLE 10 - 11 KG 1 YEAR
	Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs	
	*Adenosine 3 mg/mL	1 st dose	Rapid IV	1 mg	0.3 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A	N/A	
	*Adenosine 3 mg/mL	2 nd dose	Rapid IV	2 mg	0.7 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	5 mg	0.25 mL	
	Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	10 mg	0.5 mL	
	Amiodarone 50 mg/mL	VF/pVT	IV/IO	50 mg	1 mL	Midazolam 5 mg/kg	Seizure 1 st line	IM	2 mg	0.4 mL	
	*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	50 mg	1 mL	Midazolam 5 mg/kg	Seizure	IV/IO/IN	1 mg	0.2 mL	
	Atropine 1 mg/mL	Bradycardia	IV/IO	0.2 mg	0.2 mL	Midazolam 5 mg/kg	ETT	IV/IO/IM	1 mg	0.2 mL	
	Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.2 mg	2 mL	*Midazolam 5 mg/kg	Toxic Delirium	IV/IO	2 mg	0.4 mL	
	Atropine 1 mg/mL	Organophosphate	IV	0.2 mg	0.2 mL	*Midazolam 5 mg/kg	Cardioversion	IN/IV/IM	1 mg	0.2 mL	
	Atropine 0.1 mg/mL	Organophosphate	IV	0.2 mg	2 mL	*Morphine 4 mg/mL	Pain	IV Carpuject	1 mg	0.25 mL	
	Atropine 1 mg/mL	Organophosphate	IM	1 mg	1 mL	*Morphine 10 mg/10 mL	Pain	IV Carpuject	1 mg	1 mL	
	Dextrose 10%	Hypoglycemia	IV	N/A	50 mL	*Morphine 10 mg/mL	Pain	IM	1 mg	0.1 mL	
	Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	10 mg	0.2 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg	2 mL	
	Epinephrine 1 mg/mL	Anaphylaxis	IM	0.1 mg	0.1 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg	1 mL	
	Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.1 mg	1 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%	Fluid Bolus	IV/IO	N/A	200 mL	
	Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.1 mg	1 mL	Normal Saline 0.9%	Croup	Neb	N/A	3 mL	
	*Epinephrine 1 mg/mL	Asthma	IM	0.1 mg	0.1 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	N/A	N/A	
	*Fentanyl 50 mcg/mL	Pain	IV/IM	20 mcg	0.4 mL	Sodium Bicarbonate	Crush Injury	IV/IO	10 mEq	10 mL	
	Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO			
*Base Hospital Order All milliliters rounded											

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12 - 14 KG 2 YEARS 12 - 14 KG 2 YEARS	Age: 2 years Normal Vital Signs: Heart Rate: 90 - 150 Respiration: 24 - 40 Systolic BP: > 70									YELLOW 12 - 14 KG 2 YEARS	
	Cardioversion: 15 joules Defibrillation: 24 joules, 48 joules, 48 joules										
	Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose		mLs
	*Adenosine 3 mg/mL	1 st dose	Rapid IV	1.2 mg	0.4 mL	Ketorolac 15 mg/mL	Pain	IV/IO/IM	N/A		N/A
	*Adenosine 3 mg/mL	2 nd dose	Rapid IV	2.4 mg	0.8 mL	Lidocaine 2% 100 mg/5 mL	IO Infusion Pain	IO	6 mg		0.3 mL
	Albuterol 2.5 mg/3mL	Wheezing	Neb	5 mg	6 mL	Lidocaine 2% 100 mg/5 mL	Cardiac Arrest	IV/IO	12 mg		0.6 mL
	Amiodarone 50 mg/mL	VF/pVT	IV/IO	70 mg	1.4 mL	Midazolam 5 mg/kg	Seizure 1 st line	IM	2.4 mg		0.5 mL
	*Amiodarone 50 mg/mL Over 10 minutes	VT with pulse	IV/IO	70 mg	1.4 mL	Midazolam 5 mg/kg	Seizure	IV/IO/IN	1.2 mg		0.25 mL
	Atropine 1 mg/mL	Bradycardia	IV/IO	0.24 mg	0.24 mL	Midazolam 5 mg/kg	ETT	IV/IO/IM	1.2 mg		0.25 mL
	Atropine 0.1 mg/mL	Bradycardia	IV/IO	0.24 mg	2.4 mL	*Midazolam 5 mg/kg	Toxic Delirium	IV/IO	2.4 mg		0.5 mL
	Atropine 1 mg/mL	Organophosphate	IV	0.24 mg	0.24 mL	*Midazolam 5 mg/kg	Cardioversion	IN/IV/IM	1.2 mg		0.25 mL
	Atropine 0.1 mg/mL	Organophosphate	IV	0.24 mg	2.4 mL	*Morphine 4 mg/mL	Pain	IV Carpuject	1.2 mg		0.3 mL
	Atropine 1 mg/mL	Organophosphate	IM	1.2 mg	1.2 mL	*Morphine 10 mg/10 mL	Pain	IV Carpuject	1.2 mg		1.2 mL
	Dextrose 10%	Hypoglycemia	IV		60 mL	*Morphine 10 mg/mL	Pain	IM	1.2 mg		0.12 mL
	Diphenhydramine 50 mg/mL	Allergic Reaction	IV/IM	12 mg	0.25 mL	Naloxone 0.8 mg/2 mL	Narcotic OD	IN/IV/IM	0.8 mg		2 mL
	Epinephrine 1 mg/mL	Anaphylaxis	IM	0.12 mg	0.12 mL	Naloxone 1 mg/mL	Narcotic OD	IN/IV/IM	1 mg		1 mL
	Epinephrine 0.1 mg/mL	Anaphylaxis	IV/IO	0.12 mg	1.2 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%	Fluid Bolus	IV/IO			240 mL
	Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.12 mg	1.2 mL	Normal Saline 0.9%	Croup	Neb			3 mL
	*Epinephrine 1 mg/mL	Asthma	IM	0.12 mg	0.12 mL	Ondansetron 4 mg	Nausea/vomiting	ODT	N/A		N/A
*Fentanyl 50 mcg/mL	Pain	IV/IM	24 mcg	0.5 mL	Sodium Bicarbonate	Crush Injury	IV/IO	12 mEq	12 mL		
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO				
*Base Hospital Order All milliliters rounded											

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15 - 18 KG 3 - 4 YEARS	Age: 3 - 4 years Normal Vital Signs: Heart Rate: 80 - 140 Respiration: 22 - 34 Systolic BP: > 75										WHITE 15 - 18 KG 3 - 4 YEARS
	Cardioversion: 15 joules					Defibrillation: 30 joules, 60 joules, 60 joules					
	Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs	
	*Adenosine 3 mg/mL	1 st 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	2 nd 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/kg	Seizure 1 st 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/kg	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/kg	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/kg	Toxic Delirium	IV/IO	3 mg	0.6 mL	
	Atropine 1 mg/mL	Organophosphate	IV	0.3 mg	0.3 mL	*Midazolam 5 mg/kg	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%	Fluid Bolus	IV/IO		250 mL	
	Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.15 mg	1.5 mL	Normal Saline 0.9%	Croup	Neb		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	Sodium Bicarbonate	Crush Injury	IV/IO	15 mEq	15 mL	
	Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO			
*Base Hospital Order All milliliters rounded											

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5 - 6 YEARS 19 – 23 KG 5 - 6 YEARS	Age: 5 - 6 years Normal Vital Signs: Heart Rate: 70 - 120 Respiration: 18 - 30 Systolic BP: > 80										BLUE
	Cardioversion: 20 joules					Defibrillation: 40 joules, 80 joules, 80 joules					
	Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs	19 – 23 KG 5 - 6 YEARS
	*Adenosine 3 mg/mL	1 st 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	2 nd 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/kg	Seizure 1 st 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/kg	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/kg	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/kg	Toxic Delirium	IV/IO	4 mg	0.8 mL	
	Atropine 1 mg/mL	Organophosphate	IV	0.4 mg	0.4 mL	*Midazolam 5 mg/kg	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%	Fluid Bolus	IV/IO		250 mL	
	Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.2 mg	2 mL	Normal Saline 0.9%	Croup	Neb		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	Sodium Bicarbonate	Crush Injury	IV/IO	20 mEq	20 mL		
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO				
*Base Hospital Order All milliliters rounded											

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24 - 29 KG 7 - 8 YEARS	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	1 st 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	2 nd 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/kg	Seizure 1 st 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/kg	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/kg	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/kg	Toxic Delirium	IV/IO	5 mg	1 mL
	Atropine 1 mg/mL	Organophosphate	IV	0.5 mg	0.5 mL	*Midazolam 5 mg/kg	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%	Fluid Bolus	IV/IO		250 mL
	Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.25 mg	2.5 mL	Normal Saline 0.9%	Croup	Neb		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	Sodium Bicarbonate	Crush Injury	IV/IO	25 mEq	25 mL	
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO			
*Base Hospital Order All milliliters rounded										

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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	1 st 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	2 nd 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/kg	Seizure 1 st 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/kg	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/kg	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/kg	Toxic Delirium	IV/IO	7 mg	1.4 mL
Atropine 1 mg/mL	Organophosphate	IV	0.7 mg	0.7 mL	*Midazolam 5 mg/kg	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%	Fluid Bolus	IV/IO		250 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.35 mg	3.5 mL	Normal Saline 0.9%	Croup	Neb		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	Sodium Bicarbonate	Crush Injury	IV/IO	35 mEq	35 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO		
*Base Hospital Order All milliliters rounded									

Approved:

Review Dates: 7/21; 9/22; 6/23; 3/25; 3/26
Release Date: MM/DD/YYYY
Final Date for Implementation: MM/DD/YYYY
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ORANGE COUNTY EMERGENCY MEDICAL SERVICES
PREHOSPITAL ALS STANDING ORDERS

PEDIATRIC MEDICATION VOLUME DOSE BY WEIGHT

**This is a draft document
for Oct 2026 updates.**

#: 1-20
Page: 10 of 10
Org Date: 7/20
Revised: 08/26/2026

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									
Medication	Indication	Route	Dose	mLs	Medication	Indication	Route	Dose	mLs
*Adenosine 3 mg/mL	1 st 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	2 nd 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/kg	Seizure 1 st 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/kg	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/kg	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/kg	Toxic Delirium	IV/IO	9 mg	1.8 mL
Atropine 1 mg/mL	Organophosphate	IV	0.9 mg	0.9 mL	*Midazolam 5 mg/kg	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 Carpject	4.5 mg	1 mL
Atropine 1 mg/mL	Organophosphate	IM	2 mg	2 mL	Morphine 10 mg/10 mL	Pain	IV Carpject	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%	Fluid Bolus	IV/IO		250 mL
Epinephrine 0.1 mg/mL	Cardiac Arrest / Bradycardia	IV/IO	0.45 mg	4.5 mL	Normal Saline 0.9%	Croup	Neb		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	Sodium Bicarbonate	Crush Injury	IV/IO	45 mEq	45 mL
Glucagon 1 mg/mL	Hypoglycemia	IM	0.5 mg	0.5 mL	*Tranexamic Acid (TXA)	Hemorrhagic Shock	IV/IO		
*Base Hospital Order All milliliters rounded									

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