

Airway Emergency Reference – Adult, Medical

		Paralysis and Induction				Post Placement Management			
Medication Name		Etomidate	Ketamine	Succinylcholine	Rocuronium	Morphine	Fentanyl	Midazolam	Ketamine
Dose		0.3 mg/kg	2 mg/kg	2 mg/kg	1 mg/kg	0.1 mg/kg	1 mcg/kg	0.05 mg/kg	2 mg/kg
Concentration		2 mg/mL	100 mg/mL	20 mg/mL	10 mg/mL	10 mg/mL	50 mcg/mL	5 mg/mL	100 mg/mL
lbs	kg								
66	30	9mg / 4.5mL	60mg / 0.6mL	60mg / 3mL	30mg / 3mL	3mg / 0.3mL	30mcg / 0.6mL	1.5mg / 0.3mL	60mg / 0.6mL
88	40	12mg / 6mL	80mg / 0.8mL	80mg / 4mL	40mg / 4mL	4mg / 0.4mL	40mcg / 0.8mL	2mg / 0.4mL	80mg / 0.8mL
110	50	15mg / 7.5mL	100mg / 1mL	100mg / 5mL	50mg / 5mL	4mg / 0.4mL	50mcg / 1mL	2.5mg / 0.5mL	100mg / 1mL
132	60	18mg / 9mL	120mg / 1.2mL	120mg / 6mL	60mg / 6mL	4mg / 0.4mL	60mcg / 1.2mL	3mg / 0.6mL	120mg / 1.2mL
154	70	20mg / 10mL	140mg / 1.4mL	140mg / 7mL	70mg / 7mL	4mg / 0.4mL	70mcg / 1.4mL	3.5mg / 0.7mL	140mg / 1.4mL
176	80	20mg / 10mL	160mg / 1.6mL	160mg / 8mL	80mg / 8mL	4mg / 0.4mL	80mcg / 1.6mL	4mg / 0.8mL	160mg / 1.6mL
198	90	20mg / 10mL	180mg / 1.8mL	180mg / 9mL	90mg / 9mL	4mg / 0.4mL	90mcg / 1.8mL	4mg / 0.8mL	180mg / 1.8mL
220	100	20mg / 10mL	200mg / 2mL	200mg / 10mL	100mg / 10mL	4mg / 0.4mL	100mcg / 2mL	4mg / 0.8mL	200mg / 2mL
242	110	20mg / 10mL	200mg / 2mL	200mg / 10mL	100mg / 10mL	4mg / 0.4mL	100mcg / 2mL	4mg / 0.8mL	200mg / 0mL
264	120	20mg / 10mL	200mg / 2mL	200mg / 10mL	100mg / 10mL	4mg / 0.4mL	100mcg / 2mL	4mg / 0.8mL	200mg / 2mL
286	130	20mg / 10mL	200mg / 2mL	200mg / 10mL	100mg / 10mL	4mg / 0.4mL	100mcg / 2mL	4mg / 0.8mL	200mg / 2mL
308	140	20mg / 10mL	200mg / 2mL	200mg / 10mL	100mg / 10mL	4mg / 0.4mL	100mcg / 2mL	4mg / 0.8mL	200mg / 2mL
330	150	20mg / 10mL	200mg / 2mL	200mg / 10mL	100mg / 10mL	4mg / 0.4mL	100mcg / 2mL	4mg / 0.8mL	200mg / 2mL
Max Dose		20mg / 10mL	200mg / 2mL	200mg / 10mL	100mg / 10mL	4mg / 0.4mL	100mcg / 2mL	4mg / 0.8mL	200mg / 2mL

Pressor FAQs – Adult, Medical

PRESSOR	Receptor	Main Effect	Main Shock Use	Other
Epinephrine	$\alpha_1, \alpha_2, \beta_1, \beta_2$	Vasoconstriction Inotropy (increased squeeze) Dromotropy (increased conduction through AV node) Chronotropy (increased rate)	Anaphylaxis Asthma Cardiac Arrest	<ul style="list-style-type: none"> Nonspecific α and β receptor activation Hard on myocardium Typically an add-on agent to norepinephrine in septic shock when an additional agent is required and occasionally an alternative first-line agent if norepinephrine is contraindicated. Increases heart rate. May decrease mesenteric perfusion, may induce tachyarrhythmias and ischemia Must be diluted; eg, a usual concentration is 1 mg of 1:1,000 in 250 mL D5W (4 micrograms/mL).
Norepinephrine	α_1, β_1	Vasoconstriction Inotropy	Septic Shock Undifferentiated Shock	<ul style="list-style-type: none"> First line med for most kinds of shock Initial vasopressor of choice in septic, cardiogenic and hypovolemic shock. Wide range of doses used clinically. Must be diluted; a usual concentration is 4mg in 250mL of D5W or NS (16mcg/mL)
Phenylephrine	α_1	Vasoconstriction	Hypotension ("push dose" pressors in the ED)	<ul style="list-style-type: none"> May cause reflex bradycardia Pure alpha-adrenergic vasoconstrictor. Alternative vasopressor for patients with septic shock who: (1) develop tachyarrhythmias on norepinephrine, (2) have persistent shock despite use of two or more vasopressor/inotropic agents including vasopressin (salvage therapy), or (3) high cardiac output with persistent hypotension. May decrease stroke volume and cardiac output in patients with cardiac dysfunction. May be given as bolus dose of 50 to 100 micrograms to support blood pressure during rapid sequence intubation.
Dobutamine	β_1, β_2	Inotropy Vasodilation	Cardiogenic Shock	<ul style="list-style-type: none"> Minimal change in heart rate Hard on myocardium Initial agent of choice in cardiogenic shock with low cardiac output and maintained blood pressure. Add-on to norepinephrine for cardiac output augmentation in septic shock with myocardial dysfunction or ongoing hypoperfusion despite adequate intravascular volume and MAP. Increases cardiac contractility and rate; may cause hypotension and tachyarrhythmias.
Dopamine	$\alpha_1, \alpha_2, \beta_1, \beta_2, DA$	Vasoconstriction (high doses) Inotropy Dromotropy Chronotropy	Septic Shock (2 nd line behind Norepinephrine)	<ul style="list-style-type: none"> More adverse effects (eg, tachycardia, arrhythmias particularly at doses ≥ 20 mcg/kg/minute) and failed therapy than norepinephrine. May be useful in selected patients (eg, with compromised systolic function or bradycardia at low risk for tachyarrhythmias). Must be diluted; eg, a usual concentration is 400mg in 250mL D5W (1.6 mg/mL); use of a commercially available pre-diluted solution is preferred.
Vasopressin	V1	Vasoconstriction	Norepinephrine sparing effect at low doses	<ul style="list-style-type: none"> Add-on to another vasopressor (eg, norepinephrine) to augment efficacy and decrease initial vasopressor requirement. Not recommended as a replacement for a first-line vasopressor. Pure vasoconstrictor; may decrease stroke volume and cardiac output in myocardial dysfunction or precipitate ischemia in coronary artery disease. Must be diluted; eg, a usual concentration is 25units in 250mL D5W or NS (0.1 units/mL).

Pressor FAQs – Adult, Medical

Pressor Drip Reference – Adult, Medical

The abbreviation gtt comes from the Latin “guttae”, meaning “drops”

EPINEPHRINE (1mg of 1:1,000 in 250mL NS or D5W) 60 gtt tubing							
mcg/min	gtt/min		mcg/min	gtt/min		mcg/min	gtt/min
1 mcg/min	15 gtt/min		5 mcg/min	75 gtt/min		9 mcg/min	135 gtt/min
2 mcg/min	30 gtt/min		6 mcg/min	90 gtt/min		10 mcg/min	150 gtt/min
3 mcg/min	45 gtt/min		7 mcg/min	105 gtt/min			
4 mcg/min	60 gtt/min		8 mcg/min	120 gtt/min			

All gtt/min rates on this page are based off 60 gtt tubing.
If using 10 gtt tubing, divide the listed gtt/min rate by 6.

ALWAYS check drug concentrations **BEFORE** using any charts in this book

NOREPINEPHRINE (4mg in 250mL NS or D5W) 60 gtt tubing							
mcg/min	gtt/min		mcg/min	gtt/min		mcg/min	gtt/min
1 mcg/min	4 gtt/min		11 mcg/min	41 gtt/min		21 mcg/min	79 gtt/min
2 mcg/min	8 gtt/min		12 mcg/min	45 gtt/min		22 mcg/min	82 gtt/min
3 mcg/min	11 gtt/min		13 mcg/min	49 gtt/min		23 mcg/min	86 gtt/min
4 mcg/min	15 gtt/min		14 mcg/min	53 gtt/min		24 mcg/min	90 gtt/min
5 mcg/min	19 gtt/min		15 mcg/min	56 gtt/min		25 mcg/min	94 gtt/min
6 mcg/min	23 gtt/min		16 mcg/min	60 gtt/min		26 mcg/min	98 gtt/min
7 mcg/min	26 gtt/min		17 mcg/min	64 gtt/min		27 mcg/min	101 gtt/min
8 mcg/min	30 gtt/min		18 mcg/min	68 gtt/min		28 mcg/min	106 gtt/min
9 mcg/min	34 gtt/min		19 mcg/min	71 gtt/min		29 mcg/min	109 gtt/min
10 mcg/min	38 gtt/min		20 mcg/min	75 gtt/min		30 mcg/min	113 gtt/min

King Guide To Parenteral Admixtures – Adult, Medical

Key To Symbols		DSW	D10NS	NS	LR	Adenosine	Amiodarone	Atropine	Calcium chloride	Diazepam	Diltiazem	Diphenhydramine	Dopamine	Epinephrine	Etomidate	Famotidine	Fentanyl	Glucagon	Haloperidol	Hydroxocobalamin	Ketamine	Ketorolac	Lidocaine	Lorazepam	Magnesium sulfate	Methylprednisolone	Midazolam	Morphine sulfate	Naloxone	Nitroglycerin	Norepinephrine	Ondansetron	Rocuronium	Sodium Bicarb	Succinylcholine	TXA	Vasopressin			
Adenosine	C		C	C																																				
Amiodarone	▲		▲				■	C	C	■	C	C	C	C		C	▲		C		C	■	C	C	▲	▲	C	C	C	C	▲	C	C	■	C			C		
Atropine			C	C			■	■	C	■		C	C	C	C	C	C		▲		C	C	C		C	C	C	C	C	C	C	C	C		C	C		C		
Calcium chloride	C		C	C			■	■	■	■		C	C	C		C	C		■		■	■	C	C	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Diazepam	▲		▲	■			■	■	■	■	■	■	■	■		■	▲		■	■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Diltiazem	C		C				■		C	■	■	■	■	■		■	C		C			■	C	C	C	▲	C	C	C	C	C	C	C	C	▲	C		C		
Diphenhydramine	C	C	C	C			■	■	■	■	■	■	■	■		■	C		▲		C	■	C	C	C	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Dopamine	C		C	C			■	■	■	■	■	■	■	■		■	C		▲	■	C	C	C	C	C	C	C	C	C	C	C	C	C	C	■	C		C		
Epinephrine	C	C	▲	C			■	■	■	■	■	■	■	■		■	C		▲		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	■	C		C	
Etomidate								■							■		C						■	■															C	
Famotidine	C		C	C			■	■	■	■	■	■	■	■		■	C		▲			■	C	C	C	▲	C	C	C	C	C	C	C	C	▲	C	C		C	
Fentanyl	C		C	C			▲	■	■	■	■	■	■	■		■	■		▲	■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Glucagon																			■		■																			
Haloperidol	C		▲	▲			■	■	■	■	■	■	■	■		■	▲		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Hydroxocobalamin	C		C	C									■				■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Ketamine	C		C				■	■	■	■	■	■	■	■		■	C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Ketorolac	C		C	C			■	■	■	■	■	■	■	■		■	C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Lidocaine	C		C	C			■	■	■	■	■	■	■	■		■	C		▲			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Lorazepam	▲		▲	▲			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Magnesium sulfate	C		C	C			■	■	■	■	■	■	■	■		■	C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Methylprednisolone	▲		C	▲			■	■	■	■	■	■	■	■		■	C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Midazolam	C		C	▲			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Morphine sulfate	C	C	▲	C			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Naloxone	C		C	C			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Nitroglycerin	▲		▲	▲			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Norepinephrine	C		C	C			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Ondansetron	C		C	C			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Rocuronium	C		C	C			■	■	■	■	■	■	■	■		■	C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Sodium Bicarb	C	C	C	▲			■	■	■	■	■	■	■	■		■	C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Succinylcholine	C	C	C	C			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
TXA	C		C	C																																			■	
Vasopressin	C		C	C			■	■	■	■	■	■	■	■		■	C		▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Medication Quick Reference – Adult, Medical

Medication Name	Indication (Protocol Use)	First Dose	Second Dose	Max
Adenosine	Narrow Complex Tachycardia (p. 45)	6.0 mg	12.0 mg	May repeat 12.0mg x1
	Wide Complex Tachycardia (p. 46)	6.0 mg	12.0 mg	May repeat 12.0mg x1
Albuterol	COPD / Asthma / Stridor (p. 36)	2.5 mg	2.5 mg	3 doses
	Allergic Reaction (p. 49)	2.5 mg	2.5 mg	3 doses
	Prolonged Crush Injury (p. 85)	2.5 mg		
	Hazmat, General (p. 91)	2.5 mg		
Amiodarone	Cardiac Arrest, Adult (p. 39)	300 mg	150 mg	
	V-Fib / Pulseless V-Tach (p. 41)	300 mg	150 mg	
	Narrow Complex Tachycardia With A Pulse (p. 45)	150 mg over 10 minutes		
	Wide Complex Tachycardia With A Pulse (p. 46)	150 mg over 10 minutes		
Aspirin	CHF / Pulmonary Edema (p. 37)	324 mg		
	Chest Pain / Suspected ACS (p. 43)	324 mg		
	ST Elevation MI (STEMI) (p. 44)	324 mg		
Atropine	Bradycardia With A Pulse (p. 47)	0.5 mg	0.5 mg	3 doses
	Cholinergic / Organophosphate Overdose (p. 60)	Minor – 2.0 mg Major – 6.0 mg		
	Beta Blocker Overdose (p. 61)	0.5 mg	0.5 mg	3 doses
	Calcium Channel Blocker Overdose (p. 62)	0.5 mg	0.5 mg	3 doses
	WMD / Nerve Agent Exposure (p. 101)	Minor – 2.0 mg Major – 6.0 mg		
Calcium Chloride	Cardiac Arrest (p. 39)	1.0 g		1 dose
	Beta Blocker Overdose (p. 61)	1.0 g		1 dose
	Calcium Channel Blocker Overdose (p. 62)	1.0 g		1 dose
	Prolonged Crush Injury (p. 85)	1.0 g over 3 min		1 dose

Medication Quick Reference – Adult, Medical

Medication Name	Indication (Protocol Use)	First Dose	Second Dose	Max Dose
Dextrose	Diabetic Emergencies (p. 52)	D10W – 125mL D5W – 250mL D50 – 25mL		
Diltiazem	Narrow Complex Tachycardia With A Pulse (p. 45)	0.25 mg/kg	0.35 mg/kg	20 mg
	Wide Complex Tachycardia With A Pulse (p. 46)	0.25 mg/kg	0.35 mg/kg	20 mg
Diphenhydramine	Allergic Reaction (p. 49)	50 mg		
	Antipsychotic OD / Acute Dystonic Reaction (p. 65)	25 mg		2 doses
Dopamine (400mg in 250mL in D5W)	CHF / Pulmonary Edema (p. 37)	5-20 mcg/kg/min (See Pressor Drip Sheet)		
	Bradycardia With A Pulse (p. 47)	5-20 mcg/kg/min (See Pressor Drip Sheet)		
	Hypotension / Shock (Non-Trauma) (p. 75)	5-20 mcg/kg/min (See Pressor Drip Sheet)		
	Hypotension / Shock (Trauma) (p. 100)	5-20 mcg/kg/min (See Pressor Drip Sheet)		
Epinephrine (1:1,000)	Allergic Reaction (p. 49)	0.3 mg IM		3 doses
	COPD / Asthma / Stridor (p. 36)	0.3 mg IM	0.15mg IF HR >150 or Age > or CAD	
	COPD / Asthma / Stridor (p. 36)	1 mg Neb in 2mL NS	0.15mg IF HR >150 or Age > or CAD	
Epinephrine (1:10,000)	Cardiac Arrest (p. 39)	1 mg		
	V-Fib / Pulseless V-Tach (p. 41)	1 mg		
	Asystole / Pulseless Electrical Activity (PEA) (p. 40)	1 mg		
Epinephrine Infusion (1mg of 1:1,000 in 250mL D5W)	Allergic Reaction (p. 49)	0.1 mg over 5 minutes (0.1mL of 1:1000 into 10mL NS)	0.1 mg over 5 minutes (0.1mL of 1:1000 into 10mL NS)	Epi Infusion 2-10 mcg/min
	Bradycardia With A Pulse (p. 47)	2-10 mcg/min (See Pressor Drip Sheet)		
	Calcium Channel Blocker Overdose (p. 62)	2-10 mcg/min (See Pressor Drip Sheet)		
	Hypotension / Shock (Non-Trauma) (p. 75)	2-10 mcg/min (See Pressor Drip Sheet)		
	Hypotension / Shock (Trauma) (p. 100)	2-10 mcg/min (See Pressor Drip Sheet)		
Etomidate	Rapid Sequence Airway (p. 33)	0.3 mg/kg		20mg
Famotidine	Allergic Reaction (p. 49)	20 mg		

Medication Quick Reference – Adult, Medical

Medication Name	Indication (Protocol Use)	First Dose	Second Dose	Max Dose
Fentanyl	Post Advanced Airway Sedation (p. 34)	1 mcg/kg		100mcg, max 3 doses
	Narrow Complex Tachycardia With A Pulse (cardioversion) (p. 45)	1 mcg/kg		100mcg
	Bradycardia With A Pulse (pacing) (p. 47)	1 mcg/kg		100mcg
	Pain Management (p. 69)	1 mcg/kg IV/IN		100mcg IV, max 2 doses (50 mcg per nare)
	Pain Management, Trauma (p. 95)	1 mcg/kg IV/IN		100mcg IV, max 2 doses (50 mcg per nare)
Glucagon	Cardiac Arrest (p. 39)	50 mcg/kg		5 mg
	Diabetic Emergencies	1.0 mg		
	Calcium Channel Blocker Overdose (p. 62)	50 mcg/kg		5 mg
	Beta Blocker Overdose (p. 61)	50 mcg/kg		5 mg
Glucose (Oral)	Diabetic Emergencies (p. 52)	15 g PO (1 tube)		2 tubes
Haloperidol	Behavioral / Excited Delirium (p. 51)	<60 kg – 5 mg IM >60 kg – 10 mg IM		
Hydroxycobalamin (Cyanokit)	Cyanide Poisoning (p. 64)	70 mg/kg		5 g
Ipratropium Bromide	Asthma / COPD (p. 36)	0.5 mg / neb		2 doses
	Hazmat, General (p. 91)	0.5 mg / neb		5 mg
Ketamine	Rapid Sequence Airway (RSA) (p. 33)	2 mg/kg		200 mg
	Post Advanced Airway Sedation (p. 34)	2 mg/kg		200mg
	Behavioral / Excited Delirium (p. 51)	2-4 mg/kg IM		200mg
	Pain Management (p. 95)	0.2 mg/kg		20 mg
Lidocaine 2%	RSA (with Head Injury) (p. 33)	1.5 mg/kg		150 mg
	Intraosseous Venous Access Procedure (p. 192) (Awake and aware of pain)	10-20 mg ½ - 1 mL of 2% at 100mg/5mL concentration		

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Medication Name	Indication (Protocol Use)	First Dose	Second Dose	Max Dose
Lorazepam	Narrow Complex Tachycardia (cardioversion) (p. 45)	0.04 mg/kg IV/IO		2 mg
	Bradycardia With A Pulse (pacing) (p. 47)	0.04 mg/kg IV/IO		2 mg
	Behavioral / Excited Delirium (p. 51)	<60kg-1mg IM ≥60kg-1-2mg IM		
	OB General (seizures) (p. 55)	1-2mg		4 mg total
	Antipsychotic Overdose / Acute Dystonic Reaction (p. 65)	1-2mg		2 mg
	Cocaine and Sympathomimetic Overdose (p. 67)	1-2mg		2 mg
	Tricyclic Overdose (p. 68)	1-2mg		
	Seizure (p. 72)	1-2mg		
	Magnesium Sulfate	COPD / Asthma / Stridor (p. 36)	2 g over 10 minutes	
Cardiac Arrest (p. 39)		2 g over 1-2 minutes		
Wide Complex Tachycardia With A Pulse (p. 46)		2 g over 1-2 minutes		
OB General (p. 55)		4 g over 10 minutes		
Beta Blocker Overdose (p. 61)		2 g over 1-2 minutes		
MARK I Kit	Cholinergic / Organophosphate Overdose (p. 60)	2 mg Atropine IM & 600 mg 2-PAM IM		
	WMD / Nerve Agent Exposure (p. 101)	2 mg Atropine IM & 600 mg 2-PAM IM		
Methylprednisone	Asthma / COPD (p. 36)	125 mg IV/IO		
	Allergic Reaction (p. 49)	125 mg IV/IO		
Midazolam	Airway Management (p. 32)	1 mg IV/IN		
	Post Advanced Airway Sedation (p. 34)	4 mg IV/IO		Max 3 doses
	CHF / Pulmonary Edema (p. 37)	1 mg IV		
	Narrow Complex Tachycardia With A Pulse (cardioversion) (p. 45)	2-4 mg IM/IN/IV/IO		Max 4 mg

Medication Quick Reference – Adult, Medical

Medication Name	Indication (Protocol Use)	First Dose	Second Dose	Max Dose
Midazolam (cont)	Bradycardia With A Pulse (pacing) (p. 47)	2-4 mg		4 mg
	OB General (p. 55)	5 mg IM/IN/IV/IO		May repeat x 1
	Antipsychotic Overdose / Acute Dystonic Reaction (p. 65)	5 mg if <60 y/o 2.5 mg if ≥60 y/o		5 mg
	Cocaine and Sympathomimetic Overdose (p. 67)	2-4 mg		
	Tricyclic Overdose (p. 68)	2-4 mg		
	Seizure (p. 72)	5 mg if <60 y/o 2.5 mg if ≥60 y/o		
	Bites and Envenomations (p. 79)	5 mg IM/IN or 2 mg IV/IO		
	Environmental – Hyperthermia (p. 87)	2 mg		
	Morphine Sulfate	Pain Management – Medical (p. 69)	4 mg	
Pain Management – Trauma (p. 95)		0.1 mg/kg		4 mg / dose May repeat x 2
Naloxone	Opiate Overdose (p. 66)	0.5-2.0 mg		May repeat x 2
Nitroglycerin	CHF / Pulmonary Edema (p. 37)	0.4 mg SL if IV present OR 1", 1.5" or 2" Nitro Paste	0.4 mg SL if no IV present	3 doses
	Chest Pain / Suspected ACS (p. 43)	0.4 mg SL if IV present OR 1", 1.5" or 2" Nitro Paste	0.4 mg SL if no IV present	3 doses
	ST Elevation Myocardial Infarction (STEMI) (p. 44)	0.4 mg SL if IV present OR 1", 1.5" or 2" Nitro Paste	0.4 mg SL if no IV present	3 doses
Nitrous Oxide	Pain Management – Trauma (p. 95)			
	Nitrous Oxide – Procedure (p. 196)			
Norepinephrine	Hypotension / Shock (Non-Trauma) (p. 75)	8-12 mcg/min (See Pressor Drip Sheet)		
	Hypotension / Shock (Trauma) (p. 100)	8-12 mcg/min (See Pressor Drip Sheet)		
Ondansetron	Post Advanced Airway Sedation (p. 34)	4.0 mg		4.0 mg
	Chest Pain / Suspected ACS (p. 43)	4.0 mg		4.0 mg
	ST Elevation MI (nausea) (p. 44)	4.0 mg		4.0 mg

Medication Quick Reference – Adult, Medical

Medication Name	Indication (Protocol Use)	First Dose	Second Dose	Max Dose
Ondansetron (cont.)	Abdominal Pain / GI Bleeding (p. 48)	4.0 mg		4.0 mg
	Pain Management (p. 69)	4.0 mg		4.0 mg
	Environmental – Hyperthermia (p. 87)	4.0 mg		4.0 mg
	Eye Pain – Trauma (p. 90)	4.0 mg		4.0 mg
	Pain Management – Trauma (p. 95)	4.0 mg		4.0 mg
Rocuronium	Rapid Sequence Airway (RSA) (p. 33)	1.0 mg/kg		100 mg
	Rapid Sequence Airway – Procedure (p. 150)	1.0 mg/kg		100 mg
Sodium Bicarb	Cardiac Arrest (hyperkalemia) (p. 39)	50 mEq		
	Beta Blocker Overdose (p. 61)	1 mEq/kg over 5 minutes		100 mEq
	Tricyclic Overdose (p. 68)	1 mEq/kg over 5 minutes		100 mEq
	Prolonged Crush Injury (p. 85)	50 mEq		
	Hazmat General (p. 91)	2.5mL Bicarb in 5mL NS, neb		
Succinylcholine	Rapid Sequence Airway (RSA) (p. 33)	2 mg/kg		200 mg
	Rapid Sequence Airway – Procedure (p. 150)	2 mg/kg		200 mg
Tranexamic Acid (TXA)	Hemorrhage Control – Trauma (p. 95)	1 gm over 10 minutes		2 gm
	Tranexamic Acid – Procedure (p. 197)	1 gm over 10 minutes		2 gm

Mixing Directions: Tranexamic Acid (TXA) 1gm into 50mL NS (60mL total volume). Infuse over 10 minutes. 10 gtts tubing = 60 gtts/min

Medication Quick Reference – Peds Cardiac Arrest (General) p. 111

Medication Name		1 st Shock	Epinephrine (1:10,000)	2 nd Shock	Amiodarone	Atropine	Calcium Gluconate	Sodium Bicarb	3 rd Shock	Lidocaine
Dose		Biphasic	0.01 mg/kg	Biphasic	5 mg/kg	0.02 mg/kg	100 mg/kg	1 mEq/kg	Biphasic	1 mg/kg
Concentration		2 J/kg	0.1 mg/mL	4 J/kg	50 mg/mL	0.1 mg/mL	100 mg/mL	1 mEq/mL	4-10 J/kg	20 mg/mL
lbs	kg				May repeat x 2 OR switch to Lidocaine					May repeat at 5-10 minutes, ½ dose
2-4	1	2 J	0.01mg / 0.1mL	4 J	5mg / 0.1mL	0.1mg / 1mL (minimum)	100mg / 1mL	1mEq / 1mL	4-10 J	1mg / 0.05mL
5	2	4 J	0.02mg / 0.2mL	8 J	10mg / 0.2mL	0.1mg / 1mL (minimum)	200mg / 2mL	2mEq / 2mL	8-20 J	2mg / 0.1mL
6-7	3	6 J	0.03mg / 0.3mL	12 J	15mg / 0.3mL	0.1mg / 1mL (minimum)	300mg / 3mL	3mEq / 3mL	12-30 J	3mg / 0.15mL
8-9	4	8 J	0.04mg / 0.4mL	16 J	20mg / 0.4mL	0.1mg / 1mL (minimum)	400mg / 4mL	4mEq / 4mL	16-40 J	4mg / 0.2mL
10-12	5	10 J	0.05mg / 0.5mL	20 J	25mg / 0.5mL	0.1mg / 1mL	500mg / 5mL	5mEq / 5mL	20-50 J	5mg / 0.25mL
13-14	6	12 J	0.06mg / 0.6mL	24 J	30mg / 0.6mL	0.12mg / 1.2mL	600mg / 6mL	6mEq / 6mL	24-60 J	6mg / 0.3mL
15-16	7	14 J	0.07mg / 0.7mL	28 J	35mg / 0.7mL	0.14mg / 1.4mL	700mg / 7mL	7mEq / 7mL	28-70 J	7mg / 0.35mL
17-18	8	16 J	0.08mg / 0.8mL	32 J	40mg / 0.8mL	0.16mg / 1.6mL	800mg / 8mL	8mEq / 8mL	32-80 J	8mg / 0.4mL
19-20	9	18 J	0.09mg / 0.9mL	36 J	45mg / 0.9mL	0.18mg / 1.8mL	900mg / 9mL	9mEq / 9mL	36-90 J	9mg / 0.45mL
21-23	10	20 J	0.1mg / 1mL	40 J	50mg / 1mL	0.2mg / 2mL	<u>1gm / 10mL</u>	10mEq / 10mL	40-100 J	10mg / 0.5mL
26-27	12	24 J	0.12mg / 1.2mL	48 J	60mg / 61.2mL	0.24mg / 2.4mL	1gm / 10mL	12mEq / 12mL	48-120 J	12mg / 0.6mL
32-34	15	30 J	0.15mg / 1.5mL	60 J	75mg / 1.5mL	0.3mg / 3mL	1gm / 10mL	15mEq / 15mL	60-150 J	15mg / 0.75mL
43-45	20	40 J	0.2mg / 2mL	80 J	100mg / 2mL	0.4mg / 4mL	1gm / 10mL	20mEq / 20mL	80-200 J	20mg / 1mL
55-56	25	50 J	0.25mg / 2.5mL	100 J	125mg / 2.5mL	0.5mg / 5mL	1gm / 10mL	25mEq / 25mL	100-200 J	25mg / 1.25mL
110-111	50	100 J	0.5mg / 5mL	200 J	250mg / 5mL	1mg / 10mL	1gm / 10mL	50mEq / 50mL	200 J	50mg / 2.5mL
132-133	60	120 J	0.6mg / 6mL	200 J	300mg / 6mL	1mg / 10mL	1gm / 10mL	50mEq / 50mL	200 J	60mg / 3mL
165-166	75	150 J	0.75mg / 7.5mL	200 J	300mg / 6mL	1mg / 10mL	1gm / 10mL	50mEq / 50mL	200 J	75mg / 3.75mL
220-221	100	200 J	1mg / 10mL	200 J	300mg / 6mL	1mg / 10mL	1gm / 10mL	50mEq / 50mL	200 J	100mg / 5mL
Max Dose		200 J	1mg / 10mL	200mg / 10mL	300mg / 6mL	1mg / 10mL	1gm / 10mL	50mEq	200 J	3 mg/kg

Medication Quick Reference – Peds Perfusing Arrhythmias, p. 115-116

Medication Name		Epinephrine (1:10,000)	Atropine	Midazolam INTRANASAL	Lorazepam IV	Midazolam IV	Adenosine	Adenosine	Amiodarone
Dose		0.01 mg/kg	0.02 mg/kg	0.2 mg/kg	0.05 mg/kg	0.05 mg/kg	0.1 mg/kg	0.2 mg/kg	5 mg/kg
Concentration		0.1 mg/mL	0.1 mg/mL	5 mg/mL	20 mg/mL	5 mg/mL	3 mg/mL	3mg / mL	50 mg/mL
lbs	kg	Every 3-5 min while setting up to pace	If Brady due to vagal tone	Sedation for Pacing			First Dose	Second Dose	Infuse over 20-60 minutes
2-4	1	0.01mg / 0.1mL	0.1mg / 1mL (minimum)	0.2mg / 0.04mL	0.05mg / 0.003mL	0.05mg / 0.01mL	0.1mg / 0.03mL	0.2mg / 0.07mL	5mg / 0.1mL
5	2	0.02mg / 0.2mL	0.1mg / 1mL (minimum)	0.4mg / 0.08mL	0.1mg / 0.005mL	0.1mg / 0.02mL	0.2mg / 0.07mL	0.4mg / 0.13mL	10mg / 0.2mL
6-7	3	0.03mg / 0.3mL	0.1mg / 1mL (minimum)	0.6mg / 0.12mL	0.15mg / 0.008mL	0.15mg / 0.03mL	0.3mg / 0.1mL	0.6mg / 0.2mL	15mg / 0.3mL
8-9	4	0.04mg / 0.4mL	0.1mg / 1mL (minimum)	0.8mg / 0.16mL	0.2mg / 0.01mL	0.2mg / 0.04mL	0.4mg / 0.13mL	0.8mg / 0.27mL	20mg / 0.4mL
10-12	5	0.05mg / 0.5mL	0.1mg / 1mL	1mg / 0.2mL	0.25mg / 0.013mL	0.25mg / 0.05mL	0.5mg / 0.17mL	1mg / 0.33mL	25mg / 0.5mL
13-14	6	0.06mg / 0.6mL	0.12 mg / 1.2mL	1.2mg / 0.24mL	0.3mg / 0.015mL	0.3mg / 0.06mL	0.6mg / 0.2mL	1.2mg / 0.4mL	30mg / 0.6mL
15-16	7	0.07mg / 0.7mL	0.14mg / 1.4mL	1.4mg / 0.28mL	0.35mg / 0.018mL	0.35mL / 0.07mL	0.7mg / 0.23mL	1.4mg / 0.47mL	35mg / 0.7mL
17-18	8	0.08mg / 0.8mL	0.16mg / 1.6mL	1.6mg / 0.32mL	0.4mg / 0.02mL	0.4mg / 0.08mL	0.8mg / 0.27mL	1.6mg / 0.53mL	40mg / 0.8mL
19-20	9	0.09mg / 0.9mL	0.18mg / 1.8mL	1.8mg / .36mL	0.45mg / 0.023mL	0.45mg / 0.09mL	0.9mg / 0.3mL	1.8mg / 0.6mL	45mg / 0.9mL
21-23	10	0.1mg / 1mL	0.2mg / 2mL	2mg / 0.4mL	0.5mg / 0.03mL	0.5mg / 0.1mL	1mg / 0.33mL	2mg / 0.67mL	50mg / 1mL
26-27	12	0.12mg / 1.2mL	0.24mg / 2.4mL	2.4mg / 0.48mL	0.6mg / 0.03mL	0.6mg / 0.12mL	1.2mg / 0.4mL	2.4mg / 0.8mL	60mg / 1.2mL
32-34	15	0.15mg / 1.5mL	0.3mg / 3mL	3mg / 0.6mL	0.75mg / 0.038mL	0.75mg / 0.15mL	1.5mg / 0.5mL	3mg / 1mL	75mg / 1.5mL
43-45	20	0.2mg / 2mL	0.4mg / 4mL	4mg / 0.8mL	1mg / 0.05mL	1mg / 0.2mL	2mg / 0.67mL	4mg / 1.33mL	100mg / 2mL
55-56	25	0.25mg / 2.5mL	0.5mg / 5mL	5mg / 1mL	1.25mg / 0.063mL	1.25mg / 0.25mL	2.5mg / 0.83mL	5mg / 1.67mL	125mg / 2.5mL
110-111	50	0.5mg / 5mL	0.5mg / 5mL	10mg / 2mL	2mg / 0.1mL	2mg / 0.4mL	5mg / 1.67mL	10mg / 3.33mL	250mg / 5mL
132-133	60	0.6mg / 6mL	0.5mg / 5mL	10mg / 2mL	2mg / 0.1mL	2mg / 0.4mL	6mg / 2mL	12mg / 4mL	300mg / 6mL
165-166	75	0.75mg / 7.5mL	0.5mg / 5mL	10mg / 2mL	2mg / 0.1mL	2mg / 0.4mL	6mg / 2mL	12mg / 4mL	300mg / 6mL
220-221	100	1mg / 10mL	0.5mg / 5mL	10mg / 2mL	2mg / 0.1mL	2mg / 0.4mL	6mg / 2mL	12mg / 4mL	300mg / 6mL
Max Dose		1mg / 10mL	0.5mg / 5mL	10mg / 2mL	2mg / 0.1mL	2mg / 0.4mL	6mg / 2mL	12mg / 4mL	300mg / 6mL

Bradycardia With A Pulse (p. 115)

Tachycardia With A Pulse (p. 116)

Medication Quick Reference – Peds Allergic Reaction, p. 117

Medication Name		Epinephrine IM (1:1,000)	Epinephrine IV (1:10,000)	Albuterol	Diphenhydramine	Famotidine	Epinephrine gtt	Methylprednisolone
Dose		0.01 mg/kg	0.005 mg/kg	2.5 mg / 3mL	1 mg/kg	0.5 mg/kg	0.1-1 mcg/kg/min	2 mg/kg
Concentration		1 mg/mL	0.1 mg/mL		50 mg/mL	10 mg/mL	1mg of 1:1,000 in 250mL D5W	62.5 mg/mL
lbs	kg							
2-4	1	0.01mg / 0.01mL	0.005mg / 0.05mL		1mg / 0.02mL	0.5mg / 0.05mL	1mcg/min / 15gtt/min	2mg / 0.03mL
5	2	0.02mg / 0.02mL	0.01mg / 0.1mL		2mg / 0.04mL	1mg / 0.1mL	2mcg/min / 30gtt/min	4mg / 0.06mL
6-7	3	0.03mg / 0.03mL	0.03mg / 0.3mL		3mg / 0.06mL	1.5mg / 0.15mL	3mcg/min / 45gtt/min	6mg / 0.09mL
8-9	4	0.04mg / 0.04mL	0.04mg / 0.4mL		4mg / 0.08mL	2mg / 0.2mL	4mcg/min / 60gtt/min	8mg / 0.13mL
10-12	5	0.05mg / 0.05mL	0.05mg / 0.5mL		5mg / 0.1mL	2.5mg / 0.25mL	5mcg/min / 75gtt/min	10mg / 0.16mL
13-14	6	0.06mg / 0.06mL	0.06mg / 0.6mL		6mg / 0.12mL	3mg / 0.3mL	6mcg/min / 90gtt/min	12mg / 0.19mL
15-16	7	0.07mg / 0.07mL	0.07mg / 0.7mL		7mg / 0.14mL	3.5mg / 0.35mL	7mcg/min / 105gtt/min	14mg / 0.22mL
17-18	8	0.08mg / 0.08mL	0.08mg / 0.8mL		8mg / 0.16mL	4mg / 0.4mL	8mcg/min / 120gtt/min	16mg / 0.26mL
19-20	9	0.09mg / 0.09mL	0.09mg / 0.9mL		9mg / 0.18mL	4.5mg / 0.45mL	9mcg/min / 135gtt/min	18mg / 0.29mL
21-23	10	0.1mg / 0.1mL	0.1mg / 1mL		10mg / 0.2mL	5mg / 0.5mL	10mcg/min / 150gtt/min	20mg / 0.32mL
26-27	12	0.12mg / 0.12mL	0.1mg / 1mL		12mg / 0.24mL	6mg / 0.6mL	10mcg/min / 150gtt/min	24mg / 0.38mL
32-34	15	0.15mg / 0.15mL	0.1mg / 1mL		15mg / 0.3mL	7.5mg / 0.75mL	10mcg/min / 150gtt/min	30mg / 0.48mL
43-45	20	0.2mg / 0.2mL	0.1mg / 1mL		20mg / 0.4mL	10mg / 1mL	10mcg/min / 150gtt/min	40mg / 0.64mL
55-56	25	0.25mg / 0.25mL	0.1mg / 1mL		25mg / 0.5mL	17.5mg / 1.75mL	10mcg/min / 150gtt/min	50mg / 0.8mL
110-111	50	0.3mg / 0.3mL	0.1mg / 1mL		50mg / 1mL	20mg / 2mL	10mcg/min / 150gtt/min	100mg / 1.6mL
132-133	60	0.3mg / 0.3mL	0.1mg / 1mL		50mg / 1mL	20mg / 2mL	10mcg/min / 150gtt/min	120mg / 1.92mL
165-166	75	0.3mg / 0.3mL	0.1mg / 1mL		50mg / 1mL	20mg / 2mL	10mcg/min / 150gtt/min	125mg / 2mL
220-221	100	0.3mg / 0.3mL	0.1mg / 1mL		50mg / 1mL	20mg / 2mL	10mcg/min / 150gtt/min	125mg / 2mL
Max Dose		0.3mg / 0.3mL	0.1mg / 1mL		50mg / 1mL	20mg / 2mL	10mcg/min / 150gtt/min	125mg / 2mL

Medication Quick Reference – Peds Seizure, p. 125

Medication Name		Midazolam INTRANASAL	Lorazepam IV	Midazolam IV	Glucagon IM	D10
Dose		0.2 mg/kg	0.1 mg/kg	0.1 mg/kg		3 mL/kg
Concentration		5 mg/mL	20 mg/mL	5 mg/mL		
lbs	kg					
2-4	1	0.2mg / 0.04mL	0.1mg / 0.005mL	0.1mg / 0.02mL	0.5mg	3mL
5	2	0.4mg / 0.08mL	0.2mg / 0.01mL	0.2mg / 0.04mL	0.5mg	6mL
6-7	3	0.6mg / 0.12mL	0.3mg / 0.015mL	0.3mg / 0.06mL	0.5mg	9mL
8-9	4	0.8mg / 0.16mL	0.4mg / 0.02mL	0.4mg / 0.08mL	0.5mg	12mL
10-12	5	1mg / 0.2mL	0.5mg / 0.025mL	0.5mg / 0.1mL	0.5mg	15mL
13-14	6	1.2mg / 0.24mL	0.6mg / 0.03mL	0.6mg / 0.12mL	0.5mg	18mL
15-16	7	1.4mg / 0.28mL	0.7mg / 0.035mL	0.7mg / 0.14mL	0.5mg	21mL
17-18	8	1.6mg / 0.32mL	0.8mg / 0.04mL	0.8mg / 0.16mL	0.5mg	24mL
19-20	9	1.8mg / .36mL	0.9mg / 0.045mL	0.9mg / 0.18ml	0.5mg	27mL
21-23	10	2mg / 0.4mL	1mg / 0.05mL	1mg / 0.2mL	0.5mg	30mL
32-34	15	3mg / 0.6mL	1.5mg / 0.075mL	1.5mg / 0.3mL	0.5mg	45mL
32-34	15	3mg / 0.6mL	1.5mg / 0.075mL	1.5mg / 0.3mL	0.5mg	45mL
43-45	20	4mg / 0.8mL	<u>2mg / 0.1mL</u>	2mg / 0.4mL	0.5mg	60mL
55-56	25	5mg / 1mL	2mg / 0.1mL	2.5mg / 0.5mL	<u>1mg</u>	75mL
110-111	50	<u>10mg / 2mL</u>	2mg / 0.1mL	5mg / 1mL	1mg	<u>125mL</u>
132-133	60	10mg / 2mL	2mg / 0.1mL	6mg / 1.2mL	1mg	125mL
165-166	75	10mg / 2mL	2mg / 0.1mL	7.5mg / 1.5mL	1mg	125mL
220-221	100	10mg / 2mL	2mg / 0.1mL	<u>10mg / 2mL</u>	1mg	125mL
Max Dose		10mg / 2mL	2mg / 0.1mL	10mg / 2mL	1mg	125mL

Disposable Diaper ROUGH Weight Estimate Chart		
Diaper Size	lbs	kg
P	<6	<2.7
N	<10	<4
1	8-14	3-6
2	12-18	5-8
3	16-28	7-13
4	22-37	9-17
5	27+	12+
6	35+	16+
7	41+	18+

Medication Quick Reference – Peds Critical Care

Asystole / PEA Arrest (p. 112)			
Epinephrine, 1:10,000			
Kg	Dose 0.01mg/kg	mL	lbs
1	0.01	0.1	2-4
2	0.02	0.2	5
3	0.03	0.3	6-7
4	0.04	0.4	8-9
5	0.05	0.5	10-12
6	0.06	0.6	13-14
7	0.07	0.7	15-16
8	0.08	0.8	17-18
9	0.09	0.9	19-20
10	0.1	1	21-23
15	0.15	1.5	32-34
20	0.2	2	43-45
25	0.25	2.5	55-56
50	0.5	5	110-111
100	1	10	220-221

Tachycardia With A Pulse (p. 116)			
Adenosine 6mg/2mL (3mg/mL)			
Kg	Dose 0.1mg/kg	mL	lbs
1	0.1	0.03	2-4
2	0.2	0.07	5
3	0.3	0.1	6-7
4	0.4	0.13	8-9
5	0.5	0.17	10-12
6	0.6	0.2	13-14
7	0.7	0.23	15-16
8	0.8	0.27	17-18
9	0.9	0.3	19-20
10	1	0.33	21-23
15	1.5	0.5	32-34
20	2	0.67	43-45
25	2.5	0.83	55-56
50	5	1.67	110-111
60	6	2	132-133

V-Fib / Pulseless V-Tach (p. 113)			
Amiodarone 150mg/3mL (50mg/mL)			
Kg	Dose 5mg/kg	mL	lbs
1	5	0.1	2-4
2	10	0.2	5
3	15	0.3	6-7
4	20	0.4	8-9
5	25	0.5	10-12
6	30	0.6	13-14
7	35	0.7	15-16
8	40	0.8	17-18
9	45	0.9	19-20
10	50	1	21-23
15	75	1.5	32-34
20	100	2	43-45
25	125	2.5	55-56
50	250	5	110-111
60	300	6	132-133

Post Resuscitation Care (p. 114)			
Fentanyl IV 100mcg/2mL (50mcg/mL)			
Kg	Dose 1mcg/kg	mL	lbs
1	1	0.02	2-4
2	2	0.04	5
3	3	0.06	6-7
4	4	0.08	8-9
5	5	0.1	10-12
6	6	0.12	13-14
7	7	0.14	15-16
8	8	0.16	17-18
9	9	0.18	19-20
10	10	0.2	21-23
15	15	0.3	32-34
20	20	0.4	43-45
25	25	0.5	55-56
50	50	1	110-111
75	75	1.5	165-166

Medication Quick Reference – Peds Critical Care

Allergic Reaction (p. 117)			
Diphenhydramine (50mg/mL)			
Kg	Dose 1mg/kg	mL	lbs
1	1	0.02	2-4
2	2	0.04	5
3	3	0.06	6-7
4	4	0.08	8-9
5	5	0.1	10-12
6	6	0.12	13-14
7	7	0.14	15-16
8	8	0.16	17-18
9	9	0.18	19-20
10	10	0.2	21-23
15	15	0.3	32-34
20	20	0.4	43-45
25	25	0.5	55-56
50	50	1	110-111

Allergic Reaction (p. 117)			
Methylprednisolone			
Kg	Dose 2mg/kg	mL	lbs
1	2	0.03	2-4
2	4	0.06	5
3	6	0.10	6-7
4	8	0.13	8-9
5	10	0.16	10-12
6	12	0.19	13-14
7	14	0.22	15-16
8	16	0.26	17-18
9	18	0.29	19-20
10	20	0.32	21-23
15	30	0.48	32-34
20	40	0.64	43-45
25	50	0.8	55-56
50	100	1.6	110-111
62.5	125	2	137-138

Allergic Reaction (p. 117)			
Famotidine			
Kg	Dose 0.5mg/kg	mL	lbs
1	0.5	0.05	2-4
2	1	0.1	5
3	1.5	0.15	6-7
4	2	0.2	8-9
5	2.5	0.25	10-12
6	3	0.3	13-14
7	3.5	0.35	15-16
8	4	0.4	17-18
9	4.5	0.45	19-20
10	5	0.5	21-23
15	7.5	0.75	32-34
20	10	1	43-45
25	12.5	1.25	55-56
40	20	2	88-89

Allergic Reaction (p. 117)			
Epinephrine 1:1,000 IM			
Kg	Dose 0.01mg/kg	mL	lbs
1	0.01	0.1	2-4
2	0.02	0.2	5
3	0.03	0.3	6-7
4	0.04	0.4	8-9
5	0.05	0.5	10-12
6	0.06	0.6	13-14
7	0.07	0.7	15-16
8	0.08	0.8	17-18
9	0.09	0.9	19-20
10	0.1	1	21-23
15	0.15	1.5	32-34
20	0.2	2	43-45
25	0.25	2.5	55-56
30	0.3	3	66-67

Medication Quick Reference – Peds Critical Care

Allergic Reaction (p. 117)			
Epinephrine 1:10,000 IV/IO			
Kg	Dose 0.005mg/kg	mL	lbs
1	0.005	0.05	2-4
2	0.01	0.1	5
3	0.015	0.15	6-7
4	0.02	0.2	8-9
5	0.025	0.25	10-12
6	0.03	0.3	13-14
7	0.035	0.35	15-16
8	0.04	0.4	17-18
9	0.045	0.45	19-20
10	0.05	0.5	21-23
15	0.075	0.75	32-34
20	0.1	1	43-45
25			
30			
35			
Pain Management (p. 123)			
Fentanyl IN 100mcg/2mL (50mcg/mL)			
Kg	Dose 1.5mcg/kg	mL	lbs
1	1.5	0.03	2-4
2	3	0.06	5
3	4.5	0.09	6-7
4	6	0.12	8-9
5	7.5	0.15	10-12
6	9	0.18	13-14
7	10.5	0.21	15-16
8	12	0.24	17-18
9	13.5	0.27	19-20
10	15	0.3	21-23
15	22.5	0.45	32-34
20	30	0.6	43-45
30	45	0.9	66-67
33.3	50	1	73-74

Seizure (p. 125)			
Midazolam			
Kg	Dose 0.2mg/kg IM/IN	mL	lbs
1	0.2		2-4
2	0.4		5
3	0.6		6-7
4	0.8		8-9
5	1		10-12
6	1.2		13-14
7	1.4		15-16
8	1.6		17-18
9	1.8		19-20
10	2		21-23
15	3		32-34
20	4		43-45
25	5		55-56
Pain Management (p. 123)			
Fentanyl IV/IO/IM 100mcg/2mL (50mcg/mL)			
Kg	Dose 1mcg/kg	mL	lbs
1	1	0.02	2-4
2	2	0.04	5
3	3	0.06	6-7
4	4	0.08	8-9
5	5	0.1	10-12
6	6	0.12	13-14
7	7	0.14	15-16
8	8	0.16	17-18
9	9	0.18	19-20
10	10	0.2	21-23
15	15	0.3	32-34
20	20	0.4	43-45
25	25	0.5	55-56
50	50	1	110-111
75	75	1.5	165-166