



Section 13: Appendix 1: Medications

PEDIATRIC DRUG ADMINISTRATION CHARTS

Weight	3 kg	4 kg	5 kg	6-7 kg	8-9 kg	10-11 kg	12-14 kg	15-18 kg	19-23 kg	24-29 kg	30-36 kg
Volume Expansion Saline Bolus	60 ml	80 ml	100 ml	130 ml	170 ml	210 ml	260 ml	325 ml	420 ml	530 ml	660 ml

GRAY	CONCENTRATION	ROUTES	3 KG	4 KG	5 KG
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	0.3 mg (0.1 ml)	0.4 mg (0.13 ml)	0.5 mg (0.17 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	0.6 mg (0.2 ml)	0.8 mg (0.27 ml)	1.0 mg (0.33 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	15 mg (0.3 ml)	20 mg (0.4 ml)	25 mg (0.5 ml)
Atropine	1 mg / 10 ml	IV / IO	0.1 mg (1 ml)	0.1 mg (1 ml)	0.1 mg (1 ml)
Calcium Gluconate	100 mg / ml	IV / IO	180 mg (1.8 ml)	240 mg (2.4 ml)	300 mg (3 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	0.6 G (6 ml)	0.8 G (8 ml)	1 G (10 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	3 mg (0.06 ml)	4 mg (0.08 ml)	5 mg (0.1 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.03 mg (0.03 ml)	0.04 mg (0.04 ml)	0.05 mg (0.05 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.03 mg (0.3 ml)	0.04 mg (0.4 ml)	0.05 mg (0.5 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	3 mcg (0.06 ml)	4 mcg (0.08 ml)	5 mcg (0.1 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	0.3 mg (0.3 ml)	0.4 mg (0.4 ml)	0.5 mg (0.5 ml)
Magnesium Sulfate	1 g / ml	IV / IO	150 mg (0.15 ml)	200 mg (0.2 ml)	250 mg (0.25 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	150 mg (3.75 ml)	200 mg (5 ml)	250 mg (6.25 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	6 mg (0.1 ml)	8 mg (0.125 ml)	10 mg (0.15 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	0.3 mg (0.06 ml)	0.4 mg (0.08 ml)	0.5 mg (0.1 ml)
Midazolam (Versed)	5 mg / ml	IN	0.6 mg (0.12 ml)	0.8 mg (0.16 ml)	1 mg (0.2 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	0.3 mg (0.3 ml)	0.4 mg (0.4 ml)	0.5 mg (0.5 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	0.45 mg (0.23 ml)	0.6 mg (0.3 ml)	0.75 mg (0.38 ml)



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PINK	CONCENTRATION	ROUTES	6 - 7 KG (6.5 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	0.65 mg (0.22 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	1.3 mg (0.43 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	32 mg (0.64 ml)
Atropine	1 mg / 10 ml	IV / IO	0.13 mg (1.3 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	390 mg (3.9 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	1.3 G (13 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	6.5 mg (0.13 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.065 mg (0.065 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.065 mg (0.65 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	6.5 mcg (0.13 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	0.65 mg (0.5 ml)
Magnesium Sulfate	1 g / ml	IV / IO	325 mg (0.325 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	325 mg (8.125 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	13 mg (0.21 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	0.65 mg (0.13 ml)
Midazolam (Versed)	5 mg / ml	IN	1.3 mg (0.26 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	0.65 mg (0.65 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	1 mg (0.5 ml)
Sodium Bicarbonate 8.4%	1 mEq / ml	IV / IO	6.5 mEq (6.5 ml)

RED	CONCENTRATION	ROUTES	8-9 kg (8.5 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	0.85 mg (0.28 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	1.7 mg (0.57 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	42 mg (0.84 ml)
Atropine	1 mg / 10 ml	IV / IO	0.17 mg (1.7 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	510 mg (5.1 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	4.25 (42.5 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	8.5 mg (0.17 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.085 mg (0.085 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.085 mg (0.85 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	8.5 mcg (0.17 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	0.85 mg (0.5 ml)
Magnesium Sulfate	1 g / ml	IV / IO	425 mg (0.425 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	425 mg (10.625 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	17 mg (0.27 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	0.85 mg (0.17 ml)
Midazolam (Versed)	5 mg / ml	IN	1.7 mg (0.34 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	0.85 mg (0.85 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	1.3 mg (0.65 ml)
Sodium Bicarbonate 8.4%	1 mEq / ml	IV / IO	8.5 mEq (8.5 ml)



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PURPLE	CONCENTRATION	ROUTES	10-11 kg (10.5 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	1 mg (0.33 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	2 mg (0.66 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	52 mg (1.04 ml)
Atropine	1 mg / 10 ml	IV / IO	0.21 mg (2.1 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	630 mg (6.3 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	3.15 G (31.5 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	10.5 mg (0.21 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.10 mg (0.1 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.1 mg (1 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	10.5 mcg (0.21 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	1 mg (1 ml)
Magnesium Sulfate	1 g / ml	IV / IO	525 mg (0.525 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	525 mg (13.125 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	21 mg (0.34 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	1.05 mg (0.21 ml)
Midazolam (Versed)	5 mg / ml	IN	2.1 mg (0.42 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	1.05 mg (1.05 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	1.58 mg (0.8 ml)
Sodium Bicarbonate 8.4%	1 mEq / ml	IV / IO	10.5 mEq (10.5 ml)

YELLOW	CONCENTRATION	ROUTES	12-14 kg (13 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	1.3 mg (0.43 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	2.6 mg (0.87 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	65 mg (1.3 ml)
Atropine	1 mg / 10 ml	IV / IO	0.26 mg (2.6 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	780 mg (7.8 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	6.5 G (65 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	13 mg (0.21 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.13 mg (0.13 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.13 mg (1.3 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	13 mcg (0.26 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	1 mg (1 ml)
Magnesium Sulfate	1 g / ml	IV / IO	650 mg (0.65 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	650 mg (16.25 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	26 mg (0.42 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	1.3 mg (0.26 ml)
Midazolam (Versed)	5 mg / ml	IN	2.6 mg (0.52 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	1.3 mg (1.3 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	1.95 mg (.975 ml)
Sodium Bicarbonate 8.4%	1 mEq / ml	IV / IO	13 mEq (13 ml)



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WHITE	CONCENTRATION	ROUTES	15-18 kg (16.5 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	1.65 mg (0.55 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	3.3 mg (1.1 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	82.5 mg (1.65 ml)
Atropine	1 mg / 10 ml	IV / IO	0.33 mg (3.3 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	990 mg (9.9 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	8.25 G (82.5 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	16.5 mg (0.33 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.16 mg (0.16 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.165 mg (1.65 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	16.5 mcg (0.33ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	1 mg (1 ml)
Magnesium Sulfate	1 g / ml	IV / IO	825 mg (0.825 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	825 mg (20.625 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	33 mg (0.53 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	1.65 mg (0.33 ml)
Midazolam (Versed)	5 mg / ml	IN	3.3 mg (0.66 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	1.65 mg (1.65 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	2.48 mg (1.24 ml)
Sodium Bicarbonate 8.4%	1 mEq/ml	IV / IO	16.5 mEq (16.5 ml)

BLUE	CONCENTRATION	ROUTES	19-23 kg (21 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	2.1 mg (0.7 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	4.2 mg (1.4 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	105 mg (2.1 ml)
Atropine	1 mg / 10 ml	IV / IO	0.42 mg (4.2 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	1260 mg (12.6 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	10.5 G (105 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	21 mg (0.42 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.21 mg (0.21 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.21 mg (2.1 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	21 mcg (0.42 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	1 mg (1 ml)
Magnesium Sulfate	1 g / ml	IV / IO	1,050 mg (1.05 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	1,050 mg (26.25 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	42 mg (0.675 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	2.1 mg (0.42 ml)
Midazolam (Versed)	5 mg / ml	IN	4.2 mg (0.84 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	2 mg (2 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	3.15 mg (1.58 ml)
Sodium Bicarbonate 8.4%	1 mEq / ml	IV / IO	21 mEq (21 ml)



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ORANGE	CONCENTRATION	ROUTES	24 - 29 kg (26.5 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	2.65 mg (0.9 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	5.3 mg (1.8 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	132.5 mg (2.65 ml)
Atropine	1 mg / 10 ml	IV / IO	0.53 mg (5.3 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	1590 mg (15.9 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	13.25 G (132.5 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	26.5 mg (0.54 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.27 mg (0.27 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.27 mg (2.7 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	26.5 mcg (0.53 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	1 mg (1 ml)
Magnesium Sulfate	1 g / ml	IV / IO	1325 mg (1.325 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	1325 mg (33.125 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	53 mg (0.85 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	2 mg (0.4 ml)
Midazolam (Versed)	5 mg / ml	IN	5 mg (1 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	2 mg (2 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	4 mg (2 ml)
Sodium Bicarbonate 8.4%	1 mEq / ml	IV / IO	26.5 mEq (26.5 ml)

GREEN	CONCENTRATION	ROUTES	30 - 36 kg (33 kg average)
Adenosine (1st dose)	6 mg / 2 ml	IV / IO	3.3 mg (1.1 ml)
Adenosine (2nd dose)	6 mg / 2 ml	IV / IO	6.6 mg (2.2 ml)
Amiodarone (Cordarone)	150 mg / 3 ml	IV / IO	165 mg (3.3 ml)
Atropine	1 mg / 10 ml	IV / IO	0.66 mg (6.6 ml)
Calcium Gluconate	100 mg/ ml	IV / IO	1980 mg (19.8 ml)
Dextrose 10%	10 grams / 100 ml	IV / IO	16.5 G (165 ml)
Diphenhydramine (Benadryl)	50 mg / ml	IV / IO / IM	33 mg (0.66 ml)
Epinephrine 1 mg / ml (1:1,000)	1 mg / ml	IM	0.33 mg (0.33 ml)
Epinephrine 0.1 mg / ml (1:10,000)	0.1 mg / ml	IV / IO	0.33 mg (3.3 ml)
Fentanyl (Sublimaze)	100 mcg / 2 ml	IN / IV / IM	33 mcg (0.66 ml)
Glucagon (Glucagen)	1 mg / ml	IN / IM	1 mg (1 ml)
Magnesium Sulfate	1 g / ml	IV / IO	1,650 mg (1.65 ml)
Magnesium Sulfate	40 mg / ml	IV / IO	1,650 mg (41.25 ml)
Methylprednisolone (Solu-Medrol)	125 mg / 2 ml	IV / IO	66 mg (1.06 ml)
Midazolam (Versed)	5 mg / ml	IV / IO	2 mg (0.4 ml)
Midazolam (Versed)	5 mg / ml	IN	5 mg (1 ml)
Naloxone (Narcan)	2 mg / 2ml	IV / IO / IN	2 mg (2 ml)
Ondansetron (Zofran)	4 mg / 2 ml	IV / IO / PO	4 mg (2 ml)
Sodium Bicarbonate 8.4%	1 mEq / ml	IV / IO	33 mEq (33 ml)