

Pediatric Drug Volume Chart Protocol Medications

AGE	Estd Wt.	Dextrose			Diazepam		Diphenhydramine	Morphine
Route		D10*	D25**	D50	IV/IO	PR	IV/IO/IM	IV/IO/IM
Dose		5-10 mL/kg	2-4 mL/kg	1-2 mL/kg	0.1 mg/kg	0.2 mg/kg	1 mg/kg	0.1 mg/kg
Concentration					5 mg/mL		50 mg/mL	10 mg/mL
Preemie	<3 kg	Contact pediatric base station for medical direction.						
Newborn	3.5 kg	18-35 mL			0.05 mL	0.1 mL	0.05 mL	0.03 mL
3 mo.	6 kg		12-24 mL		0.1 mL	0.2 mL	0.1 mL	0.06 mL
6 mo.	8 kg		16-32 mL		0.15 mL	0.3 mL	0.15 mL	0.08 mL
1 yr.	10 kg		20-40 mL		0.2 mL	0.4 mL	0.2 mL	0.1 mL
2 yrs.	12 kg		24-48 mL		0.25 mL	0.5 mL	0.25 mL	0.12 mL
3 yrs.	15 kg			15-30 mL	0.3 mL	0.6 mL	0.3 mL	0.15 mL
4 yrs.	17 kg			17-34 mL	0.35 mL	0.7 mL	0.35 mL	0.17 mL
6 yrs.	20 kg			20-40 mL	0.4 mL	0.8 mL	0.4 mL	0.2 mL
8 yrs.	25 kg			25-50 mL	0.5 mL	1 mL	0.5 mL	0.25 mL
10 yrs.	35 kg			35-50 mL	0.7 mL	1.4 mL	0.7 mL	0.35 mL
12 yrs.	40 kg			40-50 mL	0.8 mL	1.6 mL	0.8 mL	0.4 mL
14 yrs.	50 kg			50 mL	1 mL	2 mL	1 mL	0.5 mL

* To prepare D10: discard 40 ml of D50 and add 40 ml of LR

** To prepare D25: discard 25 ml of D50 and add 25 ml of LR

Pediatric Drug Volume Chart Resuscitation Medications

AGE	Estd Wt.	Adenosine		Atropine		Epinephrine		Lidocaine	Narcan		
Route		IV/IO	IV/IO	IV/IO	ET*	IV, IO & ET ***	SC	IV/IO	IV/IO		
Dose		0.1 mg/kg	0.2 mg/kg	0.02 mg/kg	0.04 mg/kg	0.01 mg/kg 1:10 0.1 mg/kg 1:1	0.01 mg/kg 1:1	1 mg/kg	0.1 mg/kg		
Concentration		3 mg/mL		0.1 mg/mL		0.1 mg/mL 1:10 1 mg/mL 1:1	1 mg/mL 1:1	20 mg/mL	0.4 mg/mL	1 mg/mL	
Preemie	<3 kg	Contact pediatric base station for medical direction.									
Newborn	3.5 kg	0.1 mL	0.2 mL	1 mL**	2 mL	0.35 mL****	0.03 mL	0.15 mL	1 mL	0.35 mL	
3 mo.	6 kg	0.2 mL	0.4 mL	1.2 mL	2.4 mL	0.6 mL	0.06 mL	0.3 mL	1.5 mL	0.6 mL	
6 mo.	8 kg	0.25 mL	0.5 mL	1.6 mL	3.2 mL	0.8 mL	0.08 mL	0.4 mL	2 mL	0.8 mL	
1 yr.	10 kg	0.35 mL	0.7 mL	2 mL	4 mL	1 mL	0.1 mL	0.5 mL	2.5 mL	1 mL	
2 yrs.	12 kg	0.4 mL	0.8 mL	2.4 mL	4.8 mL	1.2 mL	0.12 mL	0.6 mL	3 mL	1.2 mL	
3 yrs.	15 kg	0.5 mL	1 mL	3 mL	6 mL	1.5 mL	0.15 mL	0.75 mL	4 mL	1.5 mL	
4 yrs.	17 kg	0.55 mL	1.1 mL	3.5 mL	7 mL	1.7 mL	0.17 mL	0.85 mL	4.5 mL	1.7 mL	
6 yrs.	20 kg	0.65 mL	1.3 mL	4 mL	8 mL	2 mL	0.2 mL	1 mL	5 mL	2 mL	
8 yrs.	25 kg	0.85 mL	1.7 mL	5 mL	10 mL	2.5 mL	0.25 mL	1.3 mL	5 mL	2 mL	
10 yrs.	35 kg	1.2 mL	2.3 mL	7 mL	15 mL	3.5 mL	0.3 mL	1.8 mL	5 mL	2 mL	
12 yrs.	40 kg	1.4 mL	2.7 mL	8 mL	16 mL	4 mL	0.3 mL	2 mL	5 mL	2 mL	
14 yrs.	50 kg	1.7 mL	3.3 mL	10 mL	20 mL	5 mL	0.3 mL	2.5 mL	5 mL	2 mL	

* Maximum of 5 mL for children ≤ 8 and 10 mL for children > 8 at one time

** Denotes minimum dose

*** Minimum of 2 mL volume with flush to ensure adequate drug distribution

**** Use 1:10,000 only.