

# 70 kg Adolescent

# Emergency Drug Dosing

Emergency Drug	Dose in mL	Dose	Dose Range (in mg/grams per kg)	Notes
adenosine 3 mg/mL	<b>2 mL</b>	6.0 mg	0.1 mg/kg IVP (Max 6 mg for 1st dose)	Second dose is double the first (max 12 mg)
albuterol 2.5 mg in 3 mL	<b>6 mL</b>	5.0 mg	<30kg: 2.5 mg; >30 kg: 5 mg	Repeat every 20 minutes X3. Then, call physician.
amiodarone 50 mg/mL ampules*	<b>200 mL</b>	300 mg	3.33 mL/kg of the 1.5 mg/mL dilution*	5 mg/kg IVP. Maximum: 300 mg /dose
*dilute amiodarone 150 mg (3 mL of 50 mg/mL) in 100 mL normal saline for 100 mL of a 1.5 mg/mL dilution for infusion				
atropine 0.1 mg/mL	<b>10 mL</b>	1 mg	0.02 mg/kg/dose IV	Min: 0.1 mg/dose; Max: 1 mg/dose = 10 mL
dextrose (D25W) 250 mg/mL	<b>100 mL</b>	25 g	0.5 grams/kg	D25%W = D50%W : Sterile Water 1:1
diphenhydramine 50 mg/mL	<b>1 mL</b>	50 mg	1 mg/kg IV	Max: 50 mg/dose
diazepam 5 mg/mL	<b>1.4 mL</b>	7 mg	0.1 mg/kg/dose IV. Max: 10 mg/dose	CALL PHYSICIAN BEFORE GIVING
diazepam rectal gel 5 mg/mL	<b>4 mL</b>	20 mg	Max: 20 mg/dose	CALL PHYSICIAN BEFORE GIVING
epinephrine 1:10,000	<b>7 mL</b>	0.70 mg	0.01 mg/kg IV/IO every 3 - 5 minutes	Maximum: 1 mg/dose = 10 mL
epinephrine 1:1,000 (ETT / HIGH DOSE)	<b>7 mL</b>	7.00 mg	0.1 mg/kg ETT. (Max 10 mg) 0.1 mg/kg IV may be considered if standard doses ineffective	
epinephrine 1:1,000 (SUBCUTANEOUS)	<b>0.50 mL</b>	0.50 mg	0.01 mg/kg/dose SC	for anaphylaxis (max 0.5 mg = 0.5 mL)
lidocaine 1% 10 mg/mL	<b>7 mL</b>	70.0 mg	1 mg/kg IV/ET	
morphine 10 mg/mL	<b>0.50 mL</b>	5.00 mg	0.1 mg/kg/dose IV. Max: 5 mg/dose	CALL PHYSICIAN BEFORE GIVING
naloxone 1 mg/mL	<b>2 mL</b>	2.00 mg	0.1 mg/kg IV/ET	Maximum 2 mg/dose = 2 mL
sodium bicarbonate 8.4% (1 mEq/mL)	<b>70 - 100 mL</b>	70.0 - 100 mEq	1 - 2 mEq/kg IV	Maximum: 100 mEq/dose = 100 mL
Sodium Chloride (0.9% NaCl)	<b>1400 mL</b>		20 mL/kg	

Intubation Equipment	Size
Laryngoscope Blade Size (Miller)	<b>3</b>
Endotracheal Tube Size	<b>7.0 C</b>

Defibrillation	Joules
First attempt (2 joules/kg)	<b>140</b>
Second attempt (3 joules/kg)	<b>210</b>
Subsequent attempts (4 joules/kg)	<b>280</b>

Synchronized Cardioversion	Joules
First attempt (0.5 joules/kg)	<b>35</b>
Subsequent attempts (1 joule/kg)	<b>70</b>

**CCHMC StatLine: (513) 636-8008**  
**EMSC Education: (513) 636-6992**



Dopamine Infusion	Dopamine 240 mg in 100 mL
concentration in mg/mL =	<b>2.4</b>
<b>Dose</b>	<b>Infusion Rate (mL/hr)</b>
5 mcg/kg/min	8.8
10 mcg/kg/min	17.5
15 mcg/kg/min	26.3
20 mcg/kg/min	35.0

Lidocaine Infusion	Lidocaine 800 mg in 100 mL
concentration in mg/mL =	<b>8</b>
<b>Dose</b>	<b>Infusion Rate (mL/hr)</b>
10 mcg/kg/min	5.3
20 mcg/kg/min	10.5
30 mcg/kg/min	15.8
40 mcg/kg/min	21.0
50 mcg/kg/min	26.3