

LENGTH-BASED TAPE COLOR – GRAY

Weight Range: 3-5 kg (6-11 lbs)

Defibrillation Doses: 8 J (1st) / 16 J (2nd)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.13 ml IV	Adenosine – 1 st dose	3 mg / ml	0.4 mg
0.27 ml IV	Adenosine – 2 nd dose	3 mg / ml	0.8 mg
1 ml IV	Atropine	0.1 mg / ml	0.1 mg
20 ml IV	Dextrose 10%	0.1 gm / ml	2 g
0.08 ml IV or IM	Diphenhydramine	50 mg / ml	4 mg
0.04 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.04 mg
0.4 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.04 mg
0.5 ml IM	Glucagon	1 mg / ml	0.5 mg
0.16 ml IM	Midazolam IM	5 mg / ml	0.8 mg
0.08 ml IV	Midazolam IV	5 mg / ml	0.4 mg
0.4 ml IM or IV	Naloxone	1 mg/ml	0.4 mg
80 ml IV	Normal Saline Bolus		

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

LENGTH-BASED TAPE COLOR – PINK			
Weight Range: 6-7 kg (13-15 lbs)			
Defibrillation Doses: 13 J (1st) / 26 J (2nd)			
ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.22 ml IV	Adenosine – 1 st dose	3 mg / ml	0.65 mg
0.43 ml IV	Adenosine – 2 nd dose	3 mg / ml	1.3 mg
0.64 ml IV	Amiodarone	50 mg / ml	32 mg
1.3 ml IV	Atropine	0.1 mg / ml	0.13 mg
33 ml IV	Dextrose 10%	0.1 gm / ml	3.25 g
0.13 ml IM or IV	Diphenhydramine	50 mg / ml	6.5 mg
0.06 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.065 mg
0.65 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.065 mg
0.5 ml IM	Glucagon	1 mg / ml	0.5 mg
0.16 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	3.3 mg
0.25 ml IM	Midazolam IM	5 mg / ml	1.25 mg
0.1 ml IV – initial 0.13 ml - max	Midazolam IV	5 mg / ml	0.65 mg (max.)
0.65 ml IM or IV	Naloxone	1 mg/ml	0.65 mg
130 ml IV	Normal Saline Bolus		
Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.			

LENGTH-BASED TAPE COLOR – RED

Weight Range: 8-9 kg (17-19 lbs)

Defibrillation Doses: 17 J (1st) / 34 J (2nd)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.28 ml IV	Adenosine – 1 st dose	3 mg / ml	0.85 mg
0.56 ml IV	Adenosine – 2 nd dose	3 mg / ml	1.7 mg
0.84 ml IV	Amiodarone	50 mg / ml	42 mg
1.7 ml IV	Atropine	0.1 mg / ml	0.17 mg
43 ml IV	Dextrose 10%	0.1 gm / ml	4.25 g
0.16 ml IM or IV	Diphenhydramine	50 mg / ml	8.5 mg
0.08 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.085 mg
0.85 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.085 mg
0.5 ml IM	Glucagon	1 mg / ml	0.5 mg
0.21 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	4.25 mg
0.34 ml IM	Midazolam IM	5 mg / ml	1.7 mg
0.1 ml IV – initial 0.17 ml - max	Midazolam IV	5 mg / ml	0.85 mg (max.)
0.85 ml IM or IV	Naloxone	1 mg/ml	0.85 mg
170 ml IV	Normal Saline Bolus		

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

LENGTH-BASED TAPE COLOR – PURPLE

Weight Range: 10-11 kg (22-25 lbs)

Defibrillation Doses: 20 J (1st) / 40 J (2nd)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.33 ml IV	Adenosine – 1 st dose	3 mg / ml	1 mg
0.7 ml IV	Adenosine – 2 nd dose	3 mg / ml	2.1 mg
1 ml IV	Amiodarone	50 mg / ml	52 mg
2.1 ml IV	Atropine	0.1 mg / ml	0.21 mg
53 ml IV	Dextrose 10%	0.1 gm / ml	5.25 g
0.2 ml IM or IV	Diphenhydramine	50 mg / ml	10 mg
0.1 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.1 mg
1 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.1 mg
0.5 ml IM	Glucagon	1 mg / ml	0.5 mg
0.26 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	5.25 mg
0.4 ml IM	Midazolam IM	5 mg / ml	2 mg
0.1 ml IV – initial 0.2 ml IV - max	Midazolam IV	5 mg / ml	1 mg (max.)
1 ml IM or IV	Naloxone	1 mg/ml	1 mg
210 ml IV	Normal Saline Bolus	Standard	

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

LENGTH-BASED TAPE COLOR – YELLOW			
Weight Range: 12-14 kg (27-32 lbs)			
Defibrillation Doses: 26 J (1st) / 52 J (2nd)			
ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.43 ml IV	Adenosine – 1 st dose	3 mg / ml	1.3 mg
0.9 ml IV	Adenosine – 2 nd dose	3 mg / ml	2.6 mg
1.3 ml IV	Amiodarone	50 mg / ml	65 mg
2.6 ml IV	Atropine	0.1 mg / ml	0.26 mg
65 ml IV	Dextrose 10%	0.1 gm / ml	6.5 g
0.3 ml IM or IV	Diphenhydramine	50 mg / ml	13 mg
0.13 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.13 mg
1.3 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.13 mg
0.5 ml IM	Glucagon	1 mg / ml	0.5 mg
0.33 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	6.5 mg
0.5 ml IM	Midazolam IM	5 mg / ml	2.6 mg
0.2 ml IV - initial 0.26 ml IV – max	Midazolam IV	5 mg / ml	1.3 mg (max.)
1.3 ml IM or IV	Naloxone	1 mg/ml	1.3 mg
260 ml IV	Normal Saline Bolus		
Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.			

LENGTH-BASED TAPE COLOR – WHITE

Weight Range: 15-18 kg (34-41 lbs)

Defibrillation Doses: 33 J (1st) / 66 J (2nd)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.6 ml IV	Adenosine – 1 st dose	3 mg / ml	1.7 mg
1.1 ml IV	Adenosine – 2 nd dose	3 mg / ml	3.3 mg
1.6 ml IV	Amiodarone	50 mg / ml	80 mg
3.3 ml IV	Atropine	0.1 mg / ml	0.33 mg
83 ml IV	Dextrose 10%	0.1 gm / ml	8.25 g
0.34 ml IM or IV	Diphenhydramine	50 mg / ml	17 mg
0.17 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.17 mg
1.7 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.17 mg
0.5 ml IM	Glucagon	1 mg / ml	0.5 mg
0.43 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	8.5 mg
0.7 ml IM	Midazolam IM	5 mg / ml	3.4 mg
0.2 ml IV - initial 0.34 ml IV – max	Midazolam IV	5 mg / ml	1.7 mg (max.)
1.6 ml IM or IV	Naloxone	1 mg/ml	1.6 mg
325 ml IV	Normal Saline Bolus		

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

LENGTH-BASED TAPE COLOR – BLUE

Weight Range: 19-22 kg (42-49 lbs)

Defibrillation Doses: 40 J (1st) / 80 J (2nd)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.7 ml IV	Adenosine – 1 st dose	3 mg / ml	2.1 mg
1.4 ml IV	Adenosine – 2 nd dose	3 mg / ml	4.2 mg
2.1 ml IV	Amiodarone	50 mg / ml	105 mg
4.2 ml IV	Atropine	0.1 mg / ml	0.42 mg
105 ml IV	Dextrose 10%	0.1 gm / ml	10.5 g
0.4 ml IM or IV	Diphenhydramine	50 mg / ml	21 mg
0.21 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.21 mg
2.1 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.21 mg
1 ml IM	Glucagon	1 mg / ml	1 mg
0.5 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	10.5 mg
0.8 ml IM	Midazolam IM	5 mg / ml	4 mg
0.2 ml IV - initial 0.4 ml IV – max	Midazolam IV - Titrate in 0.2 ml (1 mg) increments	5 mg / ml	2 mg (max.)
2 ml IM or IV	Naloxone	1 mg/ml	2 mg
420 ml IV	Normal Saline Bolus	Standard	

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

LENGTH-BASED TAPE COLOR – ORANGE

Weight Range: 24-28 kg (54-64 lbs)

Defibrillation Doses: 53 J (1st) / 106 J (2nd)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
0.9 ml IV	Adenosine – 1 st dose	3 mg / ml	2.7 mg
1.8 ml IV	Adenosine – 2 nd dose	3 mg / ml	5.4 mg
2.6 ml IV	Amiodarone	50 mg / ml	130 mg
5 ml IV	Atropine	0.1 mg / ml	0.5 mg
135 ml IV	Dextrose 10%	0.1 gm / ml	13.5 g
0.5 ml IM or IV	Diphenhydramine	50 mg / ml	27 mg
0.27 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.27 mg
2.7 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.27 mg
1 ml IM	Glucagon	1 mg / ml	1 mg
0.7 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	13.5 mg
1 ml IM	Midazolam IM	5 mg / ml	5.4 mg
0.2 ml IV - initial 0.5 ml IV – max	Midazolam IV - Titrate in 0.2 ml (1 mg) increments	5 mg / ml	2.7 mg (max.)
2 ml IM or IV	Naloxone	1 mg/ml	2 mg
500 ml IV	Normal Saline Bolus		

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

LENGTH-BASED TAPE COLOR – GREEN

Weight Range: 30-36 kg (65-80 lbs)

Defibrillation Doses: 66 J (1st) / 132 J (2nd)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
1.1 ml IV	Adenosine – 1 st dose	3 mg / ml	3.3 mg
2.2 ml IV	Adenosine – 2 nd dose	3 mg / ml	6.6 mg
3.3 ml IV	Amiodarone	50 mg / ml	165 mg
5 ml IV	Atropine	0.1 mg / ml	0.5 mg
165 ml IV	Dextrose 10%	0.1 gm / ml	16.5 g
0.7 ml IM or IV	Diphenhydramine	50 mg / ml	33 mg
0.3 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.3 mg
3.3 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.33 mg
1 ml IM	Glucagon	1 mg / ml	1 mg
0.8 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	16.5 mg
1.3 ml IM	Midazolam IM	5 mg / ml	6.6 mg
0.2 ml IV - initial 0.7 ml IV – max	Midazolam IV - Titrate in 0.2 ml (1 mg) increments	5 mg / ml	3.3 mg (max.)
2 ml IM or IV	Naloxone	1 mg / ml	2 mg
500 ml IV	Normal Saline Bolus		

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

For Pediatric Patients Beyond Length-Based Tape

PEDIATRIC DOSAGE – 40 kg (90 lbs)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
1.3 ml IV	Adenosine – 1 st dose	3 mg / ml	4 mg
2.7 ml IV	Adenosine – 2 nd dose	3 mg / ml	8 mg
4 ml IV	Amiodarone	50 mg / ml	200 mg
5 ml IV	Atropine	0.1 mg / ml	0.5 mg
200 ml IV	Dextrose 10%	0.1 gm / ml	20 g
0.8 ml IM or IV	Diphenhydramine	50 mg / ml	40 mg
0.3 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.3 mg
4 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.4 mg
1 ml IM	Glucagon	1 mg / ml	1 mg
1 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	20 mg
1.6 ml IM	Midazolam IM	5 mg / ml	8 mg
0.2 ml IV - initial 0.8 ml IV – max	Midazolam IV - Titrate in 0.2 ml (1 mg) increments	5 mg / ml	4 mg (max.)
2 ml IM or IV	Naloxone	1 mg / ml	2 mg
500 ml IV	Normal Saline Bolus		

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.







For Pediatric Patients Beyond Length-Based Tape

PEDIATRIC DOSAGE – 45 kg (101 lbs.)

ADMINISTER	MEDICATION	CONCENTRATION	DOSE
1.5 ml IV	Adenosine – 1 st dose	3 mg / ml	4.5 mg
3 ml IV	Adenosine – 2 nd dose	3 mg / ml	9 mg
4.5 ml IV	Amiodarone	50 mg / ml	225 mg
5 ml IV	Atropine	0.1 mg / ml	0.5 mg
225 ml IV	Dextrose 10%	0.1 gm / ml	22.5 g
0.9 ml IM or IV	Diphenhydramine	50 mg / ml	45 mg
0.3 ml SC or IM	Epinephrine 1:1000	1 mg / ml	0.3 mg
4.5 ml IV	Epinephrine 1:10,000	0.1 mg / ml	0.45 mg
1 ml IM	Glucagon	1 mg / ml	1 mg
1 ml IO	Lidocaine 2% (IO pain)	100 mg / 5 ml	20 mg
1.8 ml IM	Midazolam IM	5 mg / ml	9 mg
0.2 ml IV - initial 0.9 ml IV – max	Midazolam IV - Titrate in 0.2 ml (1 mg) increments	5 mg / ml	4.5 mg (max.)
2 ml IM or IV	Naloxone	1 mg / ml	2 mg
500 ml IV	Normal Saline Bolus		

Some volumes rounded for ease of administration. To assure accuracy, be sure the designated concentration of medication is used.

Pain Evaluation and Treatment IM MORPHINE 10 mg/ml concentration	
COLOR / WEIGHT	IM DOSE (0.1 mg/kg)
GRAY (3-5 kg)	Not Given
PINK (6-7 kg)	0.06 ml IM (0.6 mg)
RED (8-9 kg)	0.08 ml IM (0.8 mg)
PURPLE (10-11 kg)	0.1 ml IM (1 mg)
YELLOW (12-14 kg)	0.13 ml IM (1.3 mg)
WHITE (15-18 kg)	0.17 ml IM (1.7 mg)
BLUE (19-22 kg)	0.2 ml IM (2 mg)
ORANGE (24-28 kg)	0.25 ml IM (2.5 mg)
GREEN (30-36 kg)	0.35 ml IM (3.5 mg)
40 kg	0.4 ml IM (4 mg)
45 kg	0.45 ml IM (4.5 mg)
To assure accuracy, be sure the designated concentration is used.	

PAIN RATING SCALE	
	9 - 10
	7 - 8
	5 - 6
	3 - 4
	1 - 2
	0

**Pain Evaluation and Treatment
IV MORPHINE 10 mg/ml concentration**

0.05 – 0.1 mg/kg is used in children up to 18 kg. Titrate up to 10 mg as needed in patients > 18 kg.

COLOR / WEIGHT	FIRST DOSE IV	MAXIMUM TOTAL IV DOSE *
GRAY (3-5 kg)	Not Given	Not Given
PINK (6-7 kg)	0.03 ml IV (0.3 mg)	0.06 ml IV (0.6 mg)
RED (8-9 kg)	0.04 ml IV (0.4 mg)	0.08 ml IV (0.8 mg)
PURPLE (10-11 kg)	0.05 ml IV (0.5 mg)	0.1 ml IV (1 mg)
YELLOW (12-14 kg)	0.07 ml IV (0.7 mg)	0.13 ml IV (1.3 mg)
WHITE (15-18 kg)	0.08 ml IV (0.8 mg)	0.17 ml IV (1.7 mg)
BLUE (19-22 kg)	0.1 ml IV (1 mg)	1 ml (10 mg)
ORANGE (24-28 kg)	0.1-0.2 ml IV (1-2 mg)	1 ml (10 mg)
GREEN (30-36 kg)	0.1-0.2 ml IV (1-2 mg)	1 ml (10 mg)
40 kg	0.1-0.2 ml IV (1-2 mg)	1 ml (10 mg)
45 kg	0.1-0.2 ml IV (1-2 mg)	1 ml (10 mg)
<p>* Base contact required for higher doses than maximum listed. Careful titration should be done with repeat dosages. To assure accuracy, be sure the designated concentration is used.</p>		