

**WEIGHT                      20 KG**

Nasal Trumpet	22	Suction Catheters	10-12 Fr
Oral Airway	60-80	Nasogastric Tubes	12 Fr
Intubation Blades	Miller and Mac 2	Foley Size	10-12 Fr
Endotracheal Tubes	5.5	Chest Tubes	20 Fr

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<b>Cardioversion #1</b>	0.5joules/kg	<u>10 J</u>	<b>Defibrillation #1</b>	2joules/kg	<u>50 J</u>
(synchronized) #2	1joules/kg	<u>20 J</u>	(asynchronized) #2	4joules/kg	<u>100 J</u>
#3	2joules/kg	<u>50 J</u>	#3	4joules/kg	<u>100 J</u>

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**ADENOSINE**            (3mg/ml)            100mcg/kg            100mcg x 20 kg = 2000mcg = 0.67 MLS  
 3000mcg/ml

**AMIODARONE**            (50 mg/ml)            5mg/kg            5mg x 20 kg = 100 mg = 2 MLS  
 (Bolus for VF or pulseless VT ONLY, over 20 to 60 min for VT with pulse)

**ATROPINE**            (0.1mg/ml)            0.02mg/kg            0.02mg x 20 kg = 0.4 mg = 4 MLS  
 Minimum Dose: 0.1mg or 1ml / Maximum dose: 2 mg or 20 mls

**CA. CHLORIDE 10%**    (100mg/ml)            20mg/kg            20mg x 20 kg = 400 mg = 4 MLS

**EPINEPHRINE 1:10,000** (0.1mg/ml)            0.01mg/kg            0.01mg x 20 kg = 0.2 mg = 2 MLS  
 (ALL IV DOSES, may increase dosage for pulseless rhythms)

**EPINEPHRINE 1:1,000** (1mg/ml)            0.1mg/kg            0.1mg x 20 kg = 2 mg = 2 MLS  
 (ALL ETT DOSES ONLY)

**GLUCOSE--D25%**    (250mg/ml)            0.5gm/kg            0.5gm x 20 kg = 10 gm = 40 MLS

**HCO3-8.4%**            (1meq/ml)            1meq/kg            1meq x 20 kg = 20 meq = 20 MLS

**LIDOCAINE**            (20mg/1ml)            1mg/kg            1mg x 20 kg = 20 mg = 1 MLS

**MAGNESIUM**            (500mg/ml)            25mg/kg            25mg x 20 kg = 500 mg = 1 MLS

**NALOXONE (NARCAN)** (1mg/ml)            0.1mg/kg            0.1mg x 20 kg = 2 mg = 2 MLS

**FLUMAZENIL**            (0.1mg/ml)            0.01mg/kg            0.01mg x 20 kg = 0.2 mg = 2 MLS

**DILANTIN**            (50mg/1ml)            20mg/kg            20mg x 20 kg = 400 mg = 8 MLS

**FENTANYL**            (50mcg/ml)            1mcg/kg            1mcg x 20 kg = 20 mcg = 0.4 MLS

**KETAMINE**            (10mg/ml)            1mg/kg            1mg x 20 kg = 20 mg = 2 MLS

**THIOPENTAL**            (25mg/ml)            2mg/kg            2mg x 20 kg = 40 mg = 1.6 MLS

**VERSED**            (1mg/ml)            0.1mg/kg            0.1mg x 20 kg = 2 mg = 2 MLS

**ROCURONIUM**            (10mg/ml)            1mg/kg            1mg x 20 kg = 20 mg = 2 MLS

**VECURONIUM** (dilute 10mg/vial) 0.1mg/kg            0.1mg x 20 kg = 2 mg = 2 MLS  
 (with 10 ml sterile water = 1mg/ml)

20 KG DRIP CALCULATIONS VASOCONSTRICTOR / INOTROPIC MEDICATIONS

<b>MEDICATION</b>	(concentration)	*****																		
<b>DOBUTAMINE</b>	(1 mg/ml)	(Premixed bag = 250 mg/250 ml D5W)																		
	Dosage: mcg/kg/min																			
	1 2 3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
ml/hr	1.2 2.4 3.6 4.8	6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	19.2	20.4	21.6	22.8	24			
<b>DOBUTAMINE</b>	(2 mg/ml)	*** In a Code 99 situation, this concentration is in the crash cart in a pre-mixed IV bag. ***																		
	Dosage: mcg/kg/min	(Premixed bag = 500 mg/250 ml D5W)																		
	1 2 3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
ml/hr	0.6 1.2 1.8 2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	7.8	8.4	9	9.6	10.2	10.8	11.4	12			
<b>MEDICATION</b>	(concentration)	*****																		
<b>DOPAMINE</b>	(0.8 mg/ml)	(Premixed bag = 200 mg/250 ml D5W)																		
	Dosage: mcg/kg/min																			
	1 2 3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
ml/hr	1.5 3 4.5 6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30			
<b>DOPAMINE</b>	(1.6 mg/ml)	*** In a Code 99 situation, this concentration is in the crash cart in a pre-mixed IV bag. ***																		
	Dosage: mcg/kg/min	(Premixed bag = 400 mg/250 ml D5W)																		
	1 2 3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
ml/hr	0.8 1.5 2.3 3	3.8	4.5	5.3	6	6.8	7.5	8.3	9	9.8	10.5	11.3	12	12.8	13.5	14.3	15			
<b>DOPAMINE</b>	(3.2 mg/ml)	(Premixed bag = 800 mg/250 ml D5W)																		
	Dosage: mcg/kg/min																			
	1 2 3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
ml/hr	0.4 0.8 1.1 1.5	1.9	2.3	2.6	3	3.4	3.8	4.1	4.5	4.9	5.3	5.6	6	6.4	6.8	7.1	7.5			
<b>*** MEDICATION</b>	*****	(concentration)	*****																	
<b>EPINEPHRINE / ISOPROTERENOL / PHENYLEPHRINE</b>			(0.02 mg/ml)																	
	Dosage: mcg/kg/min																			
	0.05 0.06 0.07 0.08 0.09 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2																			
ml/hr	3 3.6 4.2 4.8 5.4 6 12 18 24 30 36 42 48 54 60 90 X																			
<b>EPINEPHRINE / ISOPROTERENOL / PHENYLEPHRINE</b>			(0.05 mg/ml)																	
	Dosage: mcg/kg/min																			
	0.05 0.06 0.07 0.08 0.09 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2																			
ml/hr	1.2 1.4 1.7 1.9 2.2 2.4 4.8 7.2 9.6 12 14.4 16.8 19.2 21.6 24 36 48																			
<b>EPINEPHRINE</b>	(0.1 mg/ml)	** In a Code 99 situation, draw up 45 ml's of D5W in a 60 ml syringe and add 5 ml's of 1:1,000 Epinephrine (vial) for a final concentration of 0.1 mg/ml. **																		
	Dosage: mcg/kg/min																			
	0.05 0.06 0.07 0.08 0.09 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2																			
ml/hr	0.6 0.7 0.8 1 1.1 1.2 2.4 3.6 4.8 6 7.2 8.4 9.6 10.8 12 18 24																			

20 KG DRIP CALCULATIONS VASOCONSTRICTOR / INOTROPIC MEDICATIONS

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

MILRINONE (0.1 mg/ml)

Dosage: mcg/kg/min

	0.1	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1
ml/hr	1.2	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	7.8	8.4	9	9.6	10.2	10.8	11.4	12

MILRINONE (0.2 mg/ml) (Premixed bag = 40 mg/200 ml D5W)

Dosage: mcg/kg/min

	0.1	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1
ml/hr	0.6	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6

\*\*\* MEDICATION (concentration) \*\*\*\*\*

NOREPINEPHRINE (0.02 mg/ml)

Dosage: mcg/kg/min

	0.05	0.06	0.07	0.08	0.09	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.5	2
ml/hr	3	3.6	4.2	4.8	5.4	6	12	18	24	30	36	42	48	54	60	90	X

NOREPINEPHRINE (0.04 mg/ml)

Dosage: mcg/kg/min

	0.05	0.06	0.07	0.08	0.09	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.5	2
ml/hr	1.5	1.8	2.1	2.4	2.7	3	6	9	12	15	18	21	24	27	30	45	60

20 KG DRIP CALCULATIONS ANTIARRHYTHMIC

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

\*\*\* In a Code 99 situation, draw up 48 ml's of D5W in a 60 cc syringe and add 1.8 ml's of Amiodarone for a concentration of 1.8 mg/ml. \*\*\*

AMIODARONE (1.8 mg/ml)

Dosage: mcg/kg/min

	5	6	7	8	9	10	11	12	13	14	15
ml/hr	3.3	4	4.7	5.3	6	6.7	7.3	8	8.7	9.3	10

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

\*\*\* In a Code 99 situation, this concentration is in the crash cart in a pre-mixed IV bag. \*\*\*

LIDOCAINE (4 mg/ml) (Premixed bag = 2 grams/500 ml D5W)

Dosage: mcg/kg/min

	10	15	20	25	30	35	40	45	50
ml/hr	3	4.5	6	7.5	9	10.5	12	13.5	15

20 KG DRIP CALCULATIONS FOR VASODILATOR/ANTIHYPERTENSIVE MEDICATIONS

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

NICARDIPINE (1 mg/ml)

Dosage: mcg/kg/min

	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
ml/hr	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

NITROPRUSSIDE (1 mg/ml)

Dosage: mcg/kg/min

	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
ml/hr	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	7.8	8.4	9	9.6

MEDICATION (concentration) \*\*\*\*\*

NITROGLYCERIN (0.8 mg/ml)

Dosage: mcg/kg/min

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ml/hr	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30

**20 KG DRIP CALCULATIONS CALCIUM CHLORIDE**

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

CALCIUM CHLORIDE (10 mg/ml)  
 Dosage: mg/kg/hour

	1	2	3	4	5
ml/hr	2	4	6	8	10

CALCIUM CHLORIDE (50 mg/ml)  
 Dosage: mg/kg/hour

	1	2	3	4	5
ml/hr	0.4	0.8	1.2	1.6	2

**20 KG DRIP CALCULATIONS FENTANYL AND VERSED**

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

FENTANYL (25 mcg/ml = 0.025 mg/ml)  
 Dosage: mcg/kg/hour

	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
ml/hr	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4

FENTANYL (50 mcg/ml = 0.05 mg/ml)  
 Dosage: mcg/kg/hour

	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
ml/hr	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2

\*\*\*\*\* MEDICATION (concentration) \*\*\*\*\*

VERSED (1 mg/ml)  
 Dosage: mg/kg/hour

	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5
ml/hr	1	2	3	4	5	6	7	8	9	10

VERSED (5 mg/ml)  
 Dosage: mg/kg/hour

	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5
ml/hr	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2