

Drugs Calculator	kg	Dose/kg BW	Amount	Unit	Remarks
BW in kg =	10				
Fentanyl	50	500	mcg		
Cefazolin	50	500	mg		
Heparin	300	3000	IU		
Protamine	3	30	mg		ONLY BY CONSULTANT
Adrenaline	10	100	mcg		
Phenylephrine	10	100	mcg		
Atropine	0.02	0.2	mg		
Bicarb (8.4%)	1	10	mL		
CaCl ₂ (10%)	0.2	2	mL		
Amiodarone	5	50	mg		over 20-60 minutes
Amiodarone infusion	15	150	mg/50mL _{D5W}		1mL/hr=5mcg/kg/min, 1-3 ml/hr
Adenosine	0.1	1	mg		first bolus (max 6 mg)
Adenosine	0.2	2	mg		second bolus (max 12mg)
Synch cardioversion	0.5	5	J		SVT/VT with pulse
Synch cardioversion	1	10	J		SVT/VT with pulse
First defibrillation	2	20	J		VF/VT pulseless
Succeeding defibrillation	4	40	J		VF/VT pulseless

Adrenaline/Noradrenaline/Isoprenaline	BW x 0.3 mg/50mL	3	mg/50mL	1mL/hr=0.1mcg/kg/min
Milrinone (≤ 16kg)	BW x 3 mg/50mL	30	mg/50mL	1mL/hr=1.0mcg/kg/min
Milrinone (> 16kg) (USE SMART PUMP)	50 mg/50 mL	50	mg/50mL	1mL/hr= 1.7 mcg/kg/min
Dopamine	BW x 30 mg/50mL	300	mg/50mL	1mL/hr=10mcg/kg/min
Dobutamine	BW x 15 mg/50mL	150	mg/50mL	1mL/hr=5mcg/kg/min
GTN/Nipride (≤ 16kg)	BW x 3 mg/50mL	30	mg/50mL	1mL/hr=1.0mcg/kg/min
GTN/Nipride (> 16kg) (USE SMART PUMP)	50 mg/50 mL	50	mg/50mL	1mL/hr= 1.7 mcg/kg/min
Phentolamine	BW x 15 mg/50mL	150	mg/50mL	1-10mL/hr=5-50mcg/kg/min

Tranexemic acid (≤ 40kg)	BW x 50 mg/20mL	500	mg/20mL	1mL/hr=2.5 mg/kg/hr (10ml/hr for 1hr → 1ml/hr)
Tranexemic acid (> 40kg) (USE SMART PUMP)	2000mg/20 mL	2000 mg	mg/20mL	0.3 mL/hr=2.5 mg/kg/hr
Dexmedetomidine (3 in 1 cocktail)	BW x 10 mcg/50mL	100	mcg/50mL	1mL/hr=0.2mcg/kg/hr
Midazolam	BW x 3 mg/50mL	30	mg/50mL	1mL/hr= 1.0mcg/kg/min
Fentanyl	BW x 250 mcg/50mL	2500	mcg/50mL	1mL/hr= 5mcg/kg/hr
Rocuronium	BW x 25 mg/50mL	250	mg/50mL	1mL/hr= 0.5mg/kg/hr

Labeling of infusions must be clear and legible and follow this format:

iv (drug) _____ mg in total _____ mls _____ (diluent)
1ml/hr = _____ mcg/kg/min

