

Emergency Drug Calculator

Enter patient weight in KG

PATIENT NAME

DATE

Adrenaline 1:10,000 IV	ml (0.1ml/kg)
Adenosine	mg (100mcg/kg, MAX 500 mcg/kg)
Atropine 600 mcg/ml IV	ml (20mcg/kg). MIN 100mcg or 0.16ml
Bicarbonate 8.4% IV	ml (1ml/kg)
Calcium gluconate 10% IV	ml (0.5ml/kg)
Magnesium sulphate (asthma)	mg (40mg/kg over 20 min)
Defibrillation (Synchronised)	Joule (1 J/kg) Joule (4 J/kg) ASYNC

Infusions (sedation, inotropes and other useful agents)

Morphine IV	mg in 50ml NS, 1ml/hr = 20mcg/kg/hr
Midazolam IV	mg in 50ml NS, 1ml/hr = 1mcg/kg/min
Dopamine (peripheral) IV	mg in 50ml NS, 1ml/hr = 1mcg/kg/min
Dopamine (central) IV	mg in 50ml NS, 1ml/hr = 10mcg/kg/min
Adrenaline (central) IV	mg in 50ml NS, 1ml/hr = 0.1mcg/kg/min
Noradrenaline (central) IV	mg in 50ml NS, 1ml/hr = 0.1mcg/kg/min
Milrinone IV	mg in 50ml NS, 1ml/hr = 0.5mcg/kg/min
Prostin	MCG in 50ml NS, 1ml/hr = 10 NANOgm/kg/min
Insulin infusion	UNITS in 50ml NS, 1ml/hr = 0.05u/kg/hr
Salbutamol (weight ≤10kg)	mg in 50ml NS, 1ml/hr = 0.5mcg/kg/min

if >10kg put 25mg Salbutamol in 50mls NS, then 1ml/hr =

Anticonvulsant and CNS drugs

Lorazepam IV	mg (0.1 mg/kg)
Midazolam IV	mg (0.1 mg/kg)
Phenytoin IV	mg (20 mg/kg) 1st loading dose
Phenobarbitone IV	mg (20 mg/kg) 1st loading dose
Paraldehyde PR	ml (0.4 ml/kg). Use equal volume of oil
Mannitol IV	GRAM (0.5 grammes/kg).
3% saline IV	ml (3 ml/kg)

Muscle relaxation and intubation drugs

Suxamethonium IV	mg (2 mg/kg if <10kg else 1mg/kg)
Rocuronium IV	mg (1mg/kg) for rapid intubation
Pancuronium IV	mg (0.1 mg/kg)
Fentanyl IV	MCG (2 mcg/kg). Titrate dose 1-5 mcg/kg
Ketamine IV	mg (2 mg/kg). 4mg/kg can be used IM
Propofol IV	mg (5 mg/kg) Titrate dose 2-5 mg/kg
Thiopentone IV	mg (5 mg/kg) Titrate dose 2-5 mg/kg
Etomidate IV	mg (0.3 mg/kg) Titrate dose 0.1-0.4 mg/kg (add 2mg/kg IV hydrocortisone if used)

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Drug doses above represent average requirements in critically ill children. It's the responsibility of the clinician to ensure drugs are used appropriately according to the clinical situation