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 (syncronised)	**Joule** (1 J/kg)
Defibrillation (asyncharnous)	**Joule** (4 J/kg)

Infusions (sedation, inotropes and other useful agents)

Morphine IV	**mg** in 50ml NS, 1ml/hr = 20mcg/kg/hr
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	**mg** in 50ml NS, 1ml/hr = 0.5mcg/kg/min if >10kg run NEAT salbutamol (1 vial = 0.5mg/ml)

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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
Propfol 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)T itrate dose 0.1-0.4 mg/kg (add 2mg/kg IVI hydrocortisone if used)

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