

INTRAVENOUS STAT DOSES

50 kg

Affix Patient Label Here

Diluents:

NS = Sodium Chloride 0.9%, G5 = Glucose 5%, WFI =

Water for Injections

● = Central or intraosseus route only

CD = Controlled drug

Maximum doses highlighted in red



Note: Ideal or adjusted body weight should be used where clinically appropriate

| Intubation/Induction | | | | |
|------------------------|-----------|-----------|------------------------|---|
| Drug | Dose/kg | | Calculated Dose | Dilution |
| Atracurium besilate | 0.5 | mg/kg | 25 mg | Neat or with NS/G5 to convenient vol. |
| Atropine sulfate | 20 | microg/kg | 600 microg | Neat or with NS/G5 to convenient vol. |
| Fentanyl CD | 1 - 5 | microg/kg | 50 - 200 microg | Neat or with NS/G5 to convenient vol. |
| Ketamine CD | 1 - 2 | mg/kg | 50 - 100 mg | Neat or with NS/G5 to convenient vol. |
| Midazolam CD | 0.1 - 0.2 | mg/kg | 5 mg | Neat or with NS/G5 to convenient vol. |
| Rocuronium bromide | 0.6 - 1 | mg/kg | 30 - 50 mg | Neat or with NS/G5 to convenient vol. |
| Suxamethonium chloride | 2 | mg/kg | 100 mg | Neat or with NS/G5 to convenient vol. |
| Thiopental sodium | 2 - 5 | mg/kg | 100 - 250 mg | Reconstitute to 25mg/mL with 20mL NS/G5/WFI |

| Fluid Bolus | |
|-------------|-------------------|
| Dose/kg | Calculated Volume |
| 10mL/kg | 500 mL |
| 5mL/kg | 250 mL |

| Maintenance Fluids | | |
|--------------------|--------------------|------------|
| % | Daily Allowance | Rate |
| 100% | 2000 mL/day | 83.3 mL/hr |
| 75% | 1500 mL/day | 62.5 mL/hr |
| 50% | 1000 mL/day | 41.7 mL/hr |

| Cardiac Arrest/Arrhythmias | | | | | |
|---|-----------|---------|-------------------------|-----------------------------------|---|
| Drug | Dose/kg | | Calculated Dose | Administer Over | Dilution |
| Adenosine | 0.1 - 0.5 | mg/kg | 3 - 12 mg | 2 seconds | Neat or dilute to 0.5mg/mL with 6mL NS |
| Adrenaline (1:10,000) [100microg/mL] | 0.01 | mg/kg | 0.5 mg | Rapid injection | Dilute to 10mL with NS (max. 1mg/10mL [neat]) |
| Amiodarone hydrochloride cardiac arrest loading dose - arrhythmias | 5 - 10 | mg/kg | 250 - 300 mg | 3 minutes 20 minutes - 2 hours | Neat or dilute to 7.5 - 15mg/mL with G5 Dilute to 0.6 - 2.4mg/mL with G5 |
| Calcium <u>GLUCONATE</u> 10% [0.22mmol/mL] | 0.11 | mmol/kg | 5.5 mmol | 5 - 10 minutes | Neat or dilute each 1mL with 4mL of NS/GS |
| Glucose 10% | 2 | mL/kg | 100 mL | 2 - 5 minutes | Neat |
| Magnesium sulfate 50% [500mg/mL] | 25 - 50 | mg/kg | 1250 - 2000 mg | 20 minutes | Dilute each 1mL with 4mL of NS/G5 |
| ● Potassium chloride 15% [2mmol/mL] CD | 0.4 | mmol/kg | 20 mmol | 1 hour | Dilute to 0.5mmol/mL with NS (preferred)/G5 |
| Sodium bicarbonate 8.4% [1mmol/mL] | 1 | mmol/kg | 50 mmol | Rate of 10mmol/min | <2 years: dilute with equal vol. of NS/G5/WFI |

| Seizures/Intracranial Pressure | | | | | |
|--------------------------------|----------|-------|-----------------|-------------------------------|---|
| Drug | Dose/kg | | Calculated Dose | Administer Over | Dilution |
| Lorazepam CD | 0.1 | mg/kg | 4 mg | Rapid injection over 1 minute | Dilute to 2mg/mL with equal volume of NS/G5 |
| Levetiracetam | 40 | mg/kg | 2 g | 5 minutes | Dilute to 50mg/mL (neonates: 100mg/mL) with NS/G5 |
| Phenobarbital CD | 20 | mg/kg | 1 g | 20 minutes | Dilute to 20mg/mL with WFI |
| Phenytoin | 20 | mg/kg | 1 g | Rate of 50mg/min | Dilute to 5-10mg/mL with NS (use 0.22-0.5micron filter) |
| Sodium chloride 2.7 - 3% | 3 - 5 | mL/kg | 150 - 250 mL | 10 - 15 minutes | Neat (2.7% preferred as pre-made solution) |
| Mannitol 20% | 0.25 - 1 | g/kg | 62.5 - 250 mL | 15 - 30 minutes | Neat (15micron filter recommended) |

| Asthma | | | | | |
|--|---------|-----------|-------------------|-----------------|--------------------------|
| Drug | Dose/kg | | Calculated Dose | Administer Over | Dilution |
| Magnesium sulfate 50% [500mg/mL] | 40 | mg/kg | 2 g | Over 20 minutes | Dilute to 20mL with NS |
| Salbutamol 1-23 months over 2 years | 5 | microg/kg | 250 microg | 5-10 minutes | Dilute to 5mL with NS/G5 |
| | 15 | microg/kg | 250 microg | 5-10 minutes | Dilute to 5mL with NS/G5 |

INTRAVENOUS INFUSIONS

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| Inotropes/Vasoactives | | | | | | |
|--|-------------|----------|--------------|-----------------------------|--------------|----------------------|
| Infusion | Drug Amount | Diluent | Total Volume | Dose | Rate | |
| ● Adrenaline (1:1000) [1mg/mL] central | 15 mg | NS or G5 | 50 mL | 0.1 - 1.5 microg/kg/min | 1 mL/hr = | 0.1 microg/kg/min |
| Adrenaline (1:1000) [1mg/mL] peripheral | 15 mg | NS or G5 | 500 mL | 0.1 - 1.5 microg/kg/min | 1 mL/hr = | 0.01 microg/kg/min |
| ● Amiodarone hydrochloride | 120 mg | G5 | 50 mL | 5 - 25 microg/kg/min | 12.5 mL/hr = | 10 microg/kg/min |
| Dinoprostone (Prostin®) neonates only | | | | | | |
| ● Isoprenaline under 12 years | 1.5 mg | G5 | 50 mL | 0.02 - 1 microg/kg/min | 1 mL/hr = | 0.01 microg/kg/min |
| over 12 years | 3 mg | G5 | 50 mL | 0.5 - 20 microg/min | 1 mL/hr = | 1 microg/min |
| Milrinone peripheral | 10 mg | NS or G5 | 50 mL | 0.25 - 0.75 microg/kg/min | 7.5 mL/hr = | 0.5 microg/kg/min |
| ● Noradrenaline central | 15 mg | NS or G5 | 50 mL | 0.1 - 1.5 microg/kg/min | 1 mL/hr = | 0.1 microg/kg/min |
| Noradrenaline peripheral | 8 mg | NS or G5 | 500 mL | 0.1 - 1.5 microg/kg/min | 1 mL/hr = | 0.0053 microg/kg/min |
| ● Vasopressin (argipressin) | 50 units | NS or G5 | 50 mL | 0.0003 - 0.002 units/kg/min | 1 mL/hr = | 0.0003 units/kg/min |
| Sedatives/Analgesics/Muscle Relaxants | | | | | | |
| Infusion | Drug Amount | Diluent | Total Volume | Dose | Rate | |
| Fentanyl CD | 2500 microg | Neat | 50 mL | 1 - 10 microg/kg/hr | 1 mL/hr = | 1 microg/kg/hr |
| ● Ketamine CD central | 1500 mg | NS or G5 | 50 mL | 10 - 45 microg/kg/min | 1 mL/hr = | 10 microg/kg/min |
| Ketamine CD peripheral | 500 mg | Neat | 50 mL | 10 - 45 microg/kg/min | 4.5 mL/hr = | 15 microg/kg/min |
| Morphine CD | 50 mg | NS or G5 | 50 mL | 5 - 60 microg/kg/hr | 1 mL/hr = | 20 microg/kg/hr |
| Midazolam CD | 100 mg | Neat | 50 mL | 0 - 10 mg/hr | 1 mL/hr = | 2 mg/hr |
| Propofol 1% maximum 12 hours | 500 mg | Neat | 50 mL | 50 - 200 mg/hr | 10 mL/hr = | 100 mg/hr |
| Rocuronium bromide | 500 mg | Neat | 50 mL | 300 - 1000 microg/kg/hr | 5 mL/hr = | 1000 microg/kg/hr |
| Bronchodilators | | | | | | |
| Infusion | Drug Amount | Diluent | Total Volume | Dose | Rate | |
| Aminophylline loading dose | 500 mg | NS | 500 mL | 300 mg (6mg/kg) | 300 mL | over 20 minutes |
| followed by under 12 years | 500 mg | NS | 500 mL | 1 mg/kg/hr | 50 mL/hr = | 1 mg/kg/hr |
| over 12 years | 500 mg | NS | 500 mL | 0.5 - 0.7 mg/kg/hr | 25 mL/hr = | 0.5 mg/kg/hr |
| Magnesium sulphate 50% [500mg/mL] | 5 g | G5 | 50 mL | 2 g/hr | 20 mL/hr | over 4 hours |
| Salbutamol peripheral | 10 mg | NS or G5 | 50 mL | 20 microg/min | 6 mL/hr = | 20 microg/min |
| monitor for extravasation | | | | | | |

Disclaimer: All medicines to be given INTRAVENOUSLY unless otherwise stated. It is the responsibility of the clinician to ensure drugs are used appropriately according to the clinical situation and doses double checked. NWTs/ODN does not accept any liability. Use of these monographs is at the clinician's own risk.