# INTRAVENOUS STAT DOSES

# 40 kg

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

North West & North Wales Paediatric Transport Service

***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 | | 20 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 | | 40 - 200 microg | | Neat or with NS/G5 to convenient vol. |
| Ketamine CD | 1 - 2 mg/kg | | 40 - 80 mg | | Neat or with NS/G5 to convenient vol. |
| Midazolam CD | 0.1 - 0.2 mg/kg | | 4 - 5 mg | | Neat or with NS/G5 to convenient vol. |
| Rocuronium bromide | 0.6 - 1 mg/kg | | 24 - 40 mg | | Neat or with NS/G5 to convenient vol. |
| Suxamethonium chloride | 2 mg/kg | | 80 mg | | Neat or with NS/G5 to convenient vol. |
| Thiopental sodium | 2 - 5 mg/kg | | 80 - 200 mg | | Reconstitute to 25mg/mL with 20mL NS/G5/WFI |

## Fluid Bolus

| Dose/kg | Calculated Volume |
|---|---|
| 10mL/kg | 400 mL |
| 5mL/kg | 200 mL |

## Maintenance Fluids

| % | Daily Allowance | Rate |
|---|---|---|
| 100% | 1900 mL/day | 79.2 mL/hr |
| 75% | 1425 mL/day | 59.4 mL/hr |
| 50% | 950 mL/day | 39.6 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 | | 0.4 mg | | Rapid injection | Neat |
| Amiodarone hydrochloride cardiac arrest | 5 mg/kg | | 200 mg | | 3 minutes | Neat or dilute to 7.5 - 15mg/mL with G5 |
| loading dose - arrhythmias | 5 - 10 mg/kg | | 200 - 300 mg | | 20 minutes - 2 hours | Dilute to 0.6 - 2.4mg/mL with G5 |
| Calcium GLUCONATE 10% [0.22mmol/mL] | 0.11 mmol/kg | | 4.4 mmol | | 5 - 10 minutes | Neat or dilute each 1mL with 4mL of NS/GS |
| Glucose 10% | 2 mL/kg | | 80 mL | | 2 - 5 minutes | Neat |
| Magnesium sulfate 50% [500mg/mL] | 25 - 50 mg/kg | | 1000 - 2000 mg | | 20 minutes | Dilute each 1mL with 4mL of NS/G5 |
| ● **Potassium chloride 15% [2mmol/mL]** CD | 0.4 mmol/kg | | 16 mmol | | 1 hour | Dilute to 0.5mmol/mL with NS (preferred)/G5 |
| Sodium bicarbonate 8.4% [1mmol/mL] | 1 mmol/kg | | 40 mmol | | Rate of 10mmol/min | <2 years: dilute with equal vol. of NS/G5/WFI |

## Seizures/Intracranial Pressure

| Drug | Dose/kg | | Calculated Dose | | Adminster 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 |
| Levitiracetam | 40 mg/kg | | 1.6 g | | 5 minutes | Dilute to 50mg/mL (neonates: 100mg/mL) with NS/G5 |
| Phenobarbital CD | 20 mg/kg | | 800 mg | | 20 minutes | Dilute to 20mg/mL with WFI |
| Phenytoin | 20 mg/kg | | 800 mg | | 20 minutes | Dilute to 5-10mg/mL with NS (use 0.22-0.5micron filter) |
| Sodium chloride 2.7 - 3% | 3 - 5 mL/kg | | 120 - 200 mL | | 10 - 15 minutes | Neat (2.7% preferred as pre-made solution) |
| Mannitol 20% | 0.25 - 1 g/kg | | 50 - 200 mL | | 15 - 30 minutes | Neat (15micron filter recommended) |

## Asthma

| Drug | Dose/kg | | Calculated Dose | | Adminster Over | Dilution |
|---|---|---|---|---|---|---|
| Magnesium sulfate 50% [500mg/mL] | 40 mg/kg | | 1.6 g | | Over 20 minutes | Dilute to 20mL with NS |
| Salbutamol 1-23 months | 5 microg/kg | | 200 microg | | 5-10 minutes | Dilute to 5mL with NS/G5 |
| over 2 years | 15 microg/kg | | 250 microg | | 5-10 minutes | Dilute to 5mL with NS/G5 |

# INTRAVENOUS INFUSIONS

# 40 kg

Affix Patient Label Here

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## *Inotropes/Vasoactives*

| Infusion | | Drug Amount | Diluent | Total Volume | Dose | Rate |
|---|---|---|---|---|---|---|
| ● **Adrenaline (1:1000)** [1mg/mL] | central | 12 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 | 12 mg | NS or G5 | 500 mL | 0.1 - 1.5 microg/kg/min | 10 mL/hr = 0.1 microg/kg/min |
| ● **Amiodarone hydrochloride** | | 120 mg | G5 | 50 mL | 5 - 25 microg/kg/min | 10 mL/hr = 10 microg/kg/min |
| Dinoprostone (Prostin®) | neonates only | | | | | |
| ● **Isoprenaline** | under 12 years | 1.2 mg | G5 | 50 mL | 0.02 - 1 microg/kg/min | 10 mL/hr = 0.1 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 | 6 mL/hr = 0.5 microg/kg/min |
| ● **Noradrenaline** | central | 12 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 | 15 mL/hr = 0.1 microg/kg/min |
| ● **Vasopressin (argipressin)** | | 40 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 | al Volume | Dose | Rate |
|---|---|---|---|---|---|---|
| Fentanyl CD | | 2000 microg | NS or G5 | 50 mL | 1 - 10 microg/kg/hr | 1 mL/hr = 1 microg/kg/hr |
| ● **Ketamine** CD | central | 1200 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 | 3.6 mL/hr = 15 microg/kg/min |
| Morphine CD | | 40 mg | NS or G5 | 50 mL | 5 - 60 microg/kg/hr | 1 mL/hr = 20 microg/kg/hr |
| Midazolam CD | | 100 mg | NS or G5 or Neat | 50 mL | 0 - 10 mg/hr | 1 mL/hr = 2 mg/hr |
| Propofol 1% | maximum 12 hours | 500 mg | Neat | 50 mL | 1 - 4 mg/kg/hr | 4 mL/hr = 1 mg/kg/hr |
| Rocuronium bromide | | 500 mg | Neat | 50 mL | 300 - 1000 microg/kg/hr | 4 mL/hr = 1000 microg/kg/hr |

## *Bronchodilators*

| Infusion | | Drug Amount | Diluent | al Volume | Dose | Rate |
|---|---|---|---|---|---|---|
| Aminophylline | loading dose | 500 mg | NS | 500 mL | 240 mg (6mg/kg) | 240 mL over 20 minutes |
| followed by | under 12 years | 500 mg | NS | 500 mL | 1 mg/kg/hr | 40 mL/hr = 1 mg/kg/hr |
| | over 12 years | 500 mg | NS | 500 mL | 0.5 - 0.7 mg/kg/hr | 20 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 | | | | | | |



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