

# INTRAVENOUS STAT DOSES

## 5.5 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



*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       | 2.75 mg           | Neat or with NS/G5 to convenient vol.       |
| Atropine sulfate       | 20 microg/kg    | 110 microg        | Neat or with NS/G5 to convenient vol.       |
| Fentanyl <b>CD</b>     | 1 - 5 microg/kg | 5.5 - 27.5 microg | Neat or with NS/G5 to convenient vol.       |
| Ketamine <b>CD</b>     | 1 - 2 mg/kg     | 5.5 - 11 mg       | Neat or with NS/G5 to convenient vol.       |
| Midazolam <b>CD</b>    | 0.1 - 0.2 mg/kg | 0.55 - 1.1 mg     | Dilute to 1mg/mL with NS/G5                 |
| Rocuronium bromide     | 0.6 - 1 mg/kg   | 3.3 - 5.5 mg      | Neat or with NS/G5 to convenient vol.       |
| Suxamethonium chloride | 2 mg/kg         | 11 mg             | Neat or with NS/G5 to convenient vol.       |
| Thiopental sodium      | 2 - 5 mg/kg     | 11 - 27.5 mg      | Reconstitute to 25mg/mL with 20mL NS/G5/WFI |

### Fluid Bolus

| Dose/kg | Calculated Volume |
|---------|-------------------|
| 10mL/kg | 55 mL             |
| 5mL/kg  | 27.5 mL           |

### Maintenance Fluids

| %    | Daily Allowance | Rate       |
|------|-----------------|------------|
| 100% | 550 mL/day      | 22.9 mL/hr |
| 75%  | 412.5 mL/day    | 17.2 mL/hr |
| 50%  | 275 mL/day      | 11.5 mL/hr |

### Cardiac Arrest/Arrhythmias

| Drug                                                                      | Dose/kg         | Calculated Dose | Administer Over      | Dilution                                      |
|---------------------------------------------------------------------------|-----------------|-----------------|----------------------|-----------------------------------------------|
| Adenosine                                                                 | 0.1 - 0.5 mg/kg | 0.55 - 2.75 mg  | 2 seconds            | Neat or dilute to 0.5mg/mL with 6mL NS        |
| Adrenaline (1:10,000) [100microg/mL]                                      | 0.01 mg/kg      | 0.06 mg         | Rapid injection      | Neat                                          |
| Amiodarone hydrochloride <b>cardiac arrest loading dose - arrhythmias</b> | 5 mg/kg         | 27.5 mg         | 3 minutes            | Neat or dilute to 7.5 - 15mg/mL with G5       |
|                                                                           | 5 - 10 mg/kg    | 27.5 - 55 mg    | 20 minutes - 2 hours | Dilute to 0.6 - 2.4mg/mL with G5              |
| Calcium <u>GLUCONATE</u> 10% [0.22mmol/mL]                                | 0.11 mmol/kg    | 0.61 mmol       | 5 - 10 minutes       | Neat or dilute each 1mL with 4mL of NS/G5     |
| Glucose 10%                                                               | 2 mL/kg         | 11 mL           | 2 - 5 minutes        | Neat                                          |
| Magnesium sulfate 50% [500mg/mL]                                          | 25 - 50 mg/kg   | 138 - 275 mg    | 20 minutes           | Dilute each 1mL with 4mL of NS/G5             |
| • Potassium chloride 15% [2mmol/mL] <b>CD</b>                             | 0.4 mmol/kg     | 2.2 mmol        | 1 hour               | Dilute to 0.5mmol/mL with NS (preferred)/G5   |
| Sodium bicarbonate 8.4% [1mmol/mL]                                        | 1 mmol/kg       | 5.5 mmol        | At least 3 minutes   | <2 years: dilute with equal vol. of NS/G5/WFI |

### Seizures/Intracranial Pressure

| Drug                     | Dose/kg       | Calculated Dose | Administer Over               | Dilution                                                |
|--------------------------|---------------|-----------------|-------------------------------|---------------------------------------------------------|
| Lorazepam <b>CD</b>      | 0.1 mg/kg     | 0.55 mg         | Rapid injection over 1 minute | Dilute to 2mg/mL with equal volume of NS/G5             |
| Levetiracetam            | 40 mg/kg      | 220 mg          | 5 minutes                     | Dilute to 50mg/mL (neonates: 100mg/mL) with NS/G5       |
| Phenobarbital <b>CD</b>  | 20 mg/kg      | 110 mg          | 20 minutes                    | Dilute to 20mg/mL with WFI                              |
| Phenytoin                | 20 mg/kg      | 110 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   | 16.5 - 27.5 mL  | 10 - 15 minutes               | Neat (2.7% preferred as pre-made solution)              |
| Mannitol 20%             | 0.25 - 1 g/kg | 6.88 - 27.5 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     | 220 mg          | Over 20 minutes | Dilute to 20mL with NS   |
| Salbutamol <b>1-23 months over 2 years</b> | 5 microg/kg  | 27.5 microg     | 5-10 minutes    | Dilute to 5mL with NS/G5 |
|                                            | 15 microg/kg | 82.5 microg     | 5-10 minutes    | Dilute to 5mL with NS/G5 |

# INTRAVENOUS INFUSIONS

## 5.5 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          | 1.65 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       | 1.65 mg     | NS or G5 | 500 mL               | 0.1 - 1.5 microg/kg/min     | 10 mL/hr = 0.1 microg/kg/min   |
| ● Amiodarone hydrochloride            |                  | 82.5 mg     | G5       | 50 mL                | 5 - 25 microg/kg/min        | 1 mL/hr = 5 microg/kg/min      |
| Dinoprostone (Prostin®)               | neonates only    |             |          |                      |                             |                                |
| ● Isoprenaline                        | under 12 years   | 0.165 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   | 0.83 mL/hr = 0.5 microg/kg/min |
| ● Noradrenaline                       | central          | 1.65 mg     | NS or G5 | 50 mL                | 0.1 - 1.5 microg/kg/min     | 1 mL/hr = 0.1 microg/kg/min    |
| Noradrenaline                         | peripheral       | 1.65 mg     | NS or G5 | 500 mL               | 0.1 - 1.5 microg/kg/min     | 10 mL/hr = 0.1 microg/kg/min   |
| ● Vasopressin (argipressin)           |                  | 5.5 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                           |                  | 275 microg  | NS or G5 | 50 mL                | 1 - 10 microg/kg/hr         | 1 mL/hr = 1 microg/kg/hr       |
| ● Ketamine CD                         | central          | 165 mg      | NS or G5 | 50 mL                | 10 - 45 microg/kg/min       | 1 mL/hr = 10 microg/kg/min     |
| Ketamine CD                           | peripheral       | 165 mg      | NS or G5 | 50 mL                | 10 - 45 microg/kg/min       | 1 mL/hr = 10 microg/kg/min     |
| Morphine CD                           |                  | 5.5 mg      | NS or G5 | 50 mL                | 5 - 60 microg/kg/hr         | 1 mL/hr = 20 microg/kg/hr      |
| Midazolam CD                          |                  | 16.5 mg     | NS or G5 | 50 mL                | 30 - 300 microg/kg/hr       | 1 mL/hr = 60 microg/kg/hr      |
| Propofol 1%                           | maximum 12 hours | 500 mg      | Neat     | 50 mL                | 1 - 4 mg/kg/hr              | 0.55 mL/hr = 1 mg/kg/hr        |
| Rocuronium bromide                    |                  | 500 mg      | Neat     | 50 mL                | 300 - 1000 microg/kg/hr     | 0.55 mL/hr = 1000 microg/kg/hr |
| Bronchodilators                       |                  |             |          |                      |                             |                                |
| Infusion                              |                  | Drug Amount | Diluent  | Total Volume         | Dose                        | Rate                           |
| Aminophylline                         | loading dose     | 500 mg      | NS       | 500 mL               | 33 mg (6mg/kg)              | 33 mL over 20 minutes          |
|                                       | followed by      |             |          |                      |                             |                                |
|                                       | under 12 years   | 500 mg      | NS       | 500 mL               | 1 mg/kg/hr                  | 5.5 mL/hr = 1 mg/kg/hr         |
|                                       | over 12 years    | 500 mg      | NS       | 500 mL               | 0.5 - 0.7 mg/kg/hr          | 2.75 mL/hr = 0.5 mg/kg/hr      |
| Magnesium sulphate 50% [500mg/mL]     |                  | 5 g         | G5       | 50 mL                | 50 mg/kg/hr                 | 2.75 mL/hr over 4 hours        |
| Salbutamol                            | peripheral       | 10 mg       | NS or G5 | 50 mL                | 0.5-1 microg/kg/min         | 0.83 mL/hr = 0.5 microg/kg/min |
| monitor for extravasation             |                  |             |          | maximum 20microg/min |                             |                                |

**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. Due to stock shortages and regional variation in available preparations, not every dose can be rounded to a measurable volume - clinical judgement is required to determine the most appropriate dose.

Version 1.2 (updated December 2025), Ratified by: MFT Paediatric Medicines Management Committee (January 2025) Review date: January 2028