Anaphylaxis

**IM Adrenaline** 0.13 mL 1:1000 (small ampoule) or GREEN autoinjector

**IV fluid bolus**
- Tranexamic acid
- Severe uncontrolled haemorrhage

**Initial (ward) adrenaline infusion**
- 1mg adrenaline in 1 litre of sodium chloride 0.9%
- commence at 65 mL/hour

Repeat once if necessary

Call for urgent assistance

Resuscitation

**Adrenaline IV (cardiac arrest)**
- 10 micrograms/kg
- 130 micrograms of 1:10,000 (large ampoule)
- 1.3 mL

**Fluid bolus**
- 20 mL/kg
- of Sodium chloride 0.9%
- 260 mL

**Glucose (10%)**
- 2 mL/kg
- of Glucose 10%
- 26 mL

**DC shock**
- 4 J/kg
- Use adult/child pads
- 50 Joules

**ATROPine**
- 20 micrograms/kg
- 260 micrograms
- Dilute 600 micrograms to 6 mL
- 2.6 mL

**AmIODAROne**
- 5 mg/kg
- 65 mg
- Dilute 1 ampoule (150mg in 3mL) to 25mL in Glucose 5%
- 10.8 mL

**Adenosine (1st dose)**
- 0.1 mg/kg
- 1.3 mg
- Undiluted (6 mg in 2 mL); use 1 or 3 mL syringe.
- 0.4 mL

**Adenosine (2nd dose)**
- 0.2 mg/kg
- 2.6 mg
- 0.9 mL

**Adenosine (3rd dose)**
- 0.3 mg/kg
- 3.9 mg
- 1.3 mL

**Nebulised Adrenaline** for upper airway obstruction / croup: 5 mL of 1:1000 (small ampoule) OR 0.5 mL of 1% solution diluted to 4 mL

Intubation (prepare one size above/below)

**ET tube size (uncuffed)** (Age/4) + 4
- 4.5

**ET tube size (Microcuff**)
- 4

**ET tube size (cuffed)** (Age/4) + 3.5
- 4

**Depth:**
- 13 cm to lip
- 16 cm to nose

**LMA size:** 2

**Laryngoscope:** 2

**Suction:** 10 Fr

Induction agents

**Ketamine**
- 1-2 mg/kg
- 13 - 26 mg
- Dilute 200mg in 20 mL
- OR dilute 100mg in 10mL
- 1.3 – 2.6 mL

**Propofol**
- 2.5 – 3.5 mg/kg
- 32.5 – 45.5 mg
- Risk CVS ↓
- Undiluted
- 3.2 – 4.5 mL

**Thiopentone**
- 2.5-5 mg/kg
- 32.5 – 65.5 mg
- Risk CVS ↓
- Reconstitute 500mg in 20 mL water for injection
- Dilute 100 micrograms to 10 mL
- 1.3 – 2.6 mL

**Fentanyl**
- 2 micrograms/kg
- 26 micrograms
- 2.6 mL

**Midazolam**
- 0.1 mg/kg
- 1.3 mg
- Dilute 5 mg to 5 mL
- 1.3 mL

Paralytic agents

**Suxamethonium**
- 2 mg/kg
- 26 mg
- Dilute 100 mg to 10 mL
- 2.6 mL

**Rocuronium**
- 1.2 mg/kg
- 15.6 mg
- Undiluted
- 1.6 mL

**Vecuronium**
- 0.1 mg/kg
- 1.3 mg
- Reconstitute 10 mg in 10 mL water for injection
- 1.3 mL

**Pancuronium**
- 0.1 mg/kg
- 1.3 mg
- Dilute 4mg to 4mL
- 1.3 mL

**Atracurium**
- 0.5 mg/kg
- 6.5 mg
- Dilute 25mg to 10mL
- 2.6 mL

**Cisatracurium**
- 0.1 mg/kg
- 1.3 mg
- Undiluted
- 0.65 mL

Antidotes

**Sugammadex**
- 16 mg/kg
- 208 mg
- Undiluted (100 mg/mL)
- 2.1 mL

**Naloxone**
- 0.2 micrograms/kg
- 26 micrograms
- Dilute 400 micrograms (1mL ampoule) to 20 mL
- 1.3 mL repeat PRN

Severe uncontrolled haemorrhage – use WARMED fluids

**Tranexamic acid** (15 mg/kg)
- Undiluted: 195 mg (1.95 mL) slow push

**Packed cells / FFP** (5 mL/kg)
- 65 mL (aim 1:1 ratio)

**Platelets** (10-15 mL/kg)
- 130 - 195 mL

**Cryoprecipitate** (10 mL/kg)
- 130 mL
### Seizures / Neurology (see seizure flowchart)

<table>
<thead>
<tr>
<th>Midazolam (5 mg/1 mL – small ampoule)</th>
<th>IV Midazolam (5 mg/5 mL – large ampoule)</th>
<th>IV Clonazepam</th>
<th>IV Diazepam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intramuscular: (0.15 mg/kg) = 1.95 mg = 0.4 mL IM</td>
<td>IV: (0.15 mg/kg) = 1.95 mg = 1.95 mL IV</td>
<td>0.5 mg</td>
<td>3.25 mg</td>
</tr>
<tr>
<td>Buccal / nasal: (0.3 mg/kg) = 3.9 mg = 0.78 mL intranasal or buccal</td>
<td></td>
<td>Over 20-30 minutes for raised ICP</td>
<td></td>
</tr>
<tr>
<td>Phenobarbitone 20 mg/kg</td>
<td>260 mg</td>
<td>Undiluted (preferred). May dilute up to 45 mL (max); give over 20 min</td>
<td></td>
</tr>
<tr>
<td>Levetiracetam 40 mg/kg</td>
<td>520 mg</td>
<td>Dilute 1 x 500 mg vial to 10 mL (will need 2 vials). Give 10.4 mL over 5 min</td>
<td></td>
</tr>
<tr>
<td>PheNobarbitone 20 mg/kg</td>
<td>260 mg</td>
<td>Dilute to at least 1:10; give over 20 min</td>
<td></td>
</tr>
<tr>
<td>Paraldehyde. 0.4 mL/kg (undiluted)</td>
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</table>

- Dilute 1 ampoule (5 mL) to a total of 10 mL with olive oil or 0.9% sodium chloride. Give 10 mL PR

| Mannitol 20% | 32.5 mL | Over 20-30 minutes for raised ICP |
| Sodium chloride 3% (“Hypertonic Saline”) | 39 mL | Over 10-20 minutes for raised ICP |

### Electrolyte abnormalities

#### Hyperkaemia
- Calcium gluconate 10% **6.5 mL** slow IV (peripheral / central)
- OR Calcium chloride 10% **1.3 – 2.6 mL** (central)
- Salbutamol 2.5 mg nebulised
- Glucose 10% **65 mL** with Actrapid 1.3 units/hour IV
- Sodium bicarbonate 8.4% **13 - 39 mL** (if acidosis)

**Calcium and bicarbonate should be given using different lines**

#### Critical hyponatraemia with seizures (Do NOT correct >8 mmol/L/day)

52 mL of Sodium Chloride 3% over 20 minutes

### “Push-dosepressors”

| Metaraminol | 10 micrograms/kg | 130 micrograms | 10 mg (1 ampoule) in 100 mL bag. Draw up 10 mL. (OR dilute 2 mL (1 mg) from 3 mg/6 mL vial up to 10 mL) |
| Phenylephrine | 5 micrograms/kg | 65 micrograms | 10 mg (1 ampoule) in 100 mL bag. Draw up 10 mL. |
| Adrenaline | 1 micrograms/kg | 13 micrograms | Dilute 1.3 mL of 1:10,000 Adrenaline (large ampoule) to total volume of 10 mL |

### Infusions

<table>
<thead>
<tr>
<th>Infusion</th>
<th>Order</th>
<th>1 mL / h is equal to</th>
<th>Starting dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrenaline / Noradrenaline (Central / IO)</td>
<td>1.95 mg made up to 50 mL (Glucose 5%)</td>
<td>0.05 micrograms/kg/min</td>
<td>1 – 10 mL/h</td>
</tr>
<tr>
<td>Noradrenaline / Adrenaline (Peripheral)</td>
<td>6 mg made up to 1000 mL (1 L) [or 3 mg in 500 mL]. Starting dose = 6.5 mL/h; titrate by 6.5 mL/h</td>
<td>(Dilute Adrenaline with 0.9% sodium chloride; and dilute Noradrenaline with Glucose 5% + 0.9% sodium chloride)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>ml/h= microgram/kg/min:</strong> 6.5 = 0.05; 13 = 0.1; **19.5 = 0.15; 26 = 0.2; 32.5 = 0.25; 39 = 0.3; 52 = 0.4; 65 = 0.5; 130=1</td>
<td></td>
</tr>
<tr>
<td>Dobutamine</td>
<td>195 mg made up to 50 mL (Glucose 5%)</td>
<td>5 micrograms/kg/min</td>
<td>1 – 4 mL/h</td>
</tr>
<tr>
<td>Morphine</td>
<td>13 mg made up to 50 mL (Glucose 5% preferred; can also use sodium chloride 0.9%)</td>
<td>20 micrograms/kg/hour</td>
<td>1 – 4 mL/h</td>
</tr>
<tr>
<td>Midazolam</td>
<td>39 mg made up to 50 mL (Glucose 5% preferred; can also use sodium chloride 0.9%)</td>
<td>1 micrograms/kg/min</td>
<td>1 - 4 mL/h</td>
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