**DRUG:** Adrenaline

**PRESENTATION:**
- Ampoule: 1 in 10,000, (1mg/10mL) 10mL
- Ampoule: 1 in 1,000, (1mg/mL) 1mL
- Respirator Solution: 1% 15mL

**ACTION & INDICATION:**
- Sympathomimetic agent
- For cardiac arrest, severe bradycardia, acute hypotension, bronchospasm.
- Low cardiac output

**DOSE:**
- Intravenous:
  - **USE 1 IN 10,000 AMPOULE ONLY**
  - 0.1 – 0.3mL/kg/dose

- Intravenous infusion:
  - **USE 1 IN 1000 AMPOULE ONLY**
  - To be further diluted (see Preparation section)
  - Initially 0.1 microgram/kg/minute, increasing to a maximum of 1 microgram/kg/min

- Endotracheal tube:
  - **USE 1 IN 10,000 AMPOULE ONLY**
  - 0.1 – 0.3mL/kg/dose
  - For ease of calculation in an acute resuscitation a dose of 1mL may be given in a term infant and 0.5mL in a preterm infant. Repeated doses may be required.

- Nebulisation:
  - **Using Respirator Solution**
  - 0.05mL/kg/dose
  - **Using 1 in 1000 ampoule only**
  - 0.5mL/kg/dose
  - Dilute to 2-4mL with saline.

**PREPARATION:**
- **Use solution prepared in Pharmacy if available.**
  - To give a dose of 0.1 microgram/kg/min when infused at 1mL/hr:
  - Take 0.3mg of adrenaline (ie 0.3mL of 1:1000) per kilogram of baby's weight and dilute to 50mL with glucose or glucose / saline solutions.
  - If a different concentration is required, refer to the Calculation of Drug Infusion table.
| ADMINISTRATION:                  | Intravenous injection                  |
|                                 | Intravenous infusion                  |
|                                 | Umbilical arterial/venous injection   |
|                                 | Nebulisation                           |
| ADVERSE EFFECTS:               | Tachycardia, dysrhythmias, hypertension, tremor, cold extremities, agitation. |
| COMMENTS:                      | Incompatible with sodium bicarbonate |
|                                 | If possible correct acidosis prior to adrenaline administration |
| REFERENCES:                    | NNF 6th Ed 2011                       |
|                                 | Neofax 2012                           |
|                                 | Neonatal Pharmacopoeia 2nd Ed 2005 Royal Women’s Hospital; Melbourne |
| DATE:                          | August 2013                           |