**CALCIUM CHLORIDE**  
(Revised: November 2017)

**TYPE:** Electrolyte – utilised in both electrical and mechanical actions of the myocardium [no schedule]

**PRESENTATION:** 1g in 10ml – glass vial

**ACTION:** Opposes the action of high serum potassium on the myocardium.  
Onset: several minutes. Duration: 30 – 90 minutes.

**USES:**
- **ICP** 1. Emergency treatment of hyperkalaemia
- **ICP** 2. Cardiac arrest *secondary to hyperkalaemia* (i.e. hyperkalaemia is thought to be the cause of the cardiac arrest)
- **ICP** 3. Prolonged hypotension post-magnesium administration, if unresponsive to fluid

**ADVERSE EFFECTS:**
1. Tissue necrosis if extravasates
2. Precipitates out in contact with bicarbonate
3. If pushed fast:  
   - bradycardia
   - peripheral vasodilation
   - hypotension

**CONTRA-INDICATION:**
1. Known hypersensitivity
2. Digoxin overdose

**DOSE:**

**ADULT and PAEDIATRIC:**
- **ICP** *With cardiac output:* 10mg/kg (up to 1g) IV/IO – over 2 minutes.  
  Repeat once, if required.
- **ICP** *No cardiac output:* 10mg/kg (up to 1g) IV/IO – over 30 – 60 seconds.  
  Repeat once, if required.