**Calcium Chloride 10%**

**Class:** Electrolyte

**Packaging:** 1 g / 10 ml (*prefilled syringe*)

**Dose:** 500 mg to 1000 mg IV (peds 20mg/kg)

**Route:** IV or IO

**Action:** Acts as an activator in the transmission of nerve impulses and contraction of cardiac, skeletal, and smooth muscles. Maintains cell membrane and capillary permeability

**Onset:** Immediate

**Duration:** Depending on dose, may be up to 4 hours

**Indications:** KNOWN calcium channel blocker overdose / post hemodialysis arrest

**Contraindications:** Cardiopulmonary arrest not associated with calcium channel blocker toxicity, hypocalcemia, or hyperkalemia.

**Precautions:** Calcium chloride should not be administered in the same infusion with sodium bicarbonate since calcium will combine with sodium bicarbonate to form an insoluble precipitate (calcium carbonate). Calcium chloride should be given with extreme caution, and in reduced dosage, to persons taking digitalis because it increases ventricular irritability and may precipitate digitalis toxicity.