

CALCIUM CHLORIDE

Indications:

- Calcium channel blocker toxicity/overdose
- Acute hyperkalemia
- Acute hypocalcemia
- Acute Hypermagnesemia
- Hydrofluoric Acid Burn

Contraindications:

- None in the emergency setting

Side Effects:

- Arrhythmias
- cardiac arrest
- Syncope,
- Nausea/Vomiting
- Hypotension
- Necrosis with extravasation.
- May antagonize the effects of calcium channel blockers

Class: Inotropic Agent (electrolyte)

Mechanism of Action: Replaces elemental calcium, which is essential for regulating excitation threshold of nerves and muscles. Calcium is also essential for blood clotting mechanisms, maintenance of renal function, and bone tissues. Calcium increases myocardial contractile force and ventricular automaticity. Additionally, serves as an antidote for magnesium sulfate toxicity and calcium channel blocker toxicity. Onset and peak are immediate, lasting 20-30 minutes (possibly up to 60 minutes).

Concentration: 1.0 gram/10.0 ml

Dosage:

Adult:

- **Dialysis and Hyperkalemia**
1.0 gram IV/IO

Pediatric: Contact Medical Control