

## CALCIUM GLUCONATE

**Additional Names:** None listed

**Classification:** Mineral supplement, Antidote

**Indications:** Ca<sup>2+</sup> Channel Blocker Overdose  
Hydrofluoric Acid Exposure

**Contraindications:** Ventricular fibrillation  
Hypercalcemia  
Concurrent use of IV Calcium Gluconate

**Dosages:** **Adult:**  
Hydrofluoric Acid Exposure  
Skin Exposure: Gel: 2.5% TD to affected area  
Inhalation Exposure: 4ml Nebulized 2.5-5%

**Side Effects:** Nausea, Constipation

**Physiological Effects:** Calcium is the fifth most abundant element in the body and is essential for maintenance of the functional integrity of nervous, muscular, and skeletal systems and cell membrane and capillary permeability.

**Preparation:** Calcium Gluconate Gel  
Mix either of the following with 5 oz of water-soluble surgical lubricant (e.g. KY Jelly):

- 10ml of 10% Calcium Chloride
- 3.5g of Calcium Gluconate powder

Calcium Gluconate Nebulized  
To obtain 100ml of a 2.5% solution, mix 75ml of NS with 25ml of Calcium Gluconate 10%

**Additional Info:** Take appropriate BSI precautions and decontaminate the patient as needed.  
Use transdermally on fingers by applying gel to the hand, squirting additional gel into a surgical glove, and inserting affected hand into the glove to keep the gel in place.  
Reapply every 15 minutes and massage until the pain has abated.  
May cause precipitation if mixed in IV fluids that contain carbonates, phosphates, sulfates, or tartrates.