

**Class**

Electrolyte

**Pharmacologic properties**

Provides rapid availability of calcium ions for the treatment of severe hypocalcemia. It binds with fluoride to produce calcium fluoride, an insoluble salt.

**Indications**

- Topical treatment for hydrofluoric acid (HF) burns. The Calcium Gluconate combines with hydrofluoric acid to neutralize the powerful ion. The immediate application of antidote gel to burn site reduces burn damage to bone and deep tissue [Protocol 25](#).

**Contraindications**

- Lack of HF burns - for external use only.

**Precautions**

- Calcium gluconate may cause nausea, constipation, and upset stomach

**Side Effects/Adverse Reactions**

- Enhances the effects of digitalis and may precipitate arrhythmias associated with Hypercalcemia

**Dosage and Administration****Adult**

- Apply Calcium Gluconate Gel liberally to the affected area(s) and continuously massaged into the skin until the pain has subsided and for at least 15 minutes afterwards.
- Application of gel should be by personnel with donned personal protective equipment, utilizing gown, mask, eye protection and nitrile gloves (two pairs).
- Remove all contaminated clothing, proceed with decontamination procedures and flood the affected area of the affected skin with copious amounts of water for at least one minute.
- Reapply gel liberally as necessary.

**Pediatric**

- No specific recommended dose.
- Follow adult dosage and administration.