

Calcium Gluconate

Hydrofluoric Acid Exposures and Burns

2.5% Calcium Gluconate Gel

B	Adult	After thorough irrigation, apply to burned area q 15 minutes
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Calcium Gluconate Nebulized (mix 1mL of CG with 3mL's of NS)

P	Adult	2.5% as mixed above nebulized
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Calcium Gluconate IV/IO

P	Adult	0.1 ml/kg up to 10 ml IV
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P	Pediatric	Same (monitor closely) Weight Based Pediatric Dosing Chart Link
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Adult Medical Hyperkalemia Evaluation/Treatment of H's and T's in Cardiac Arrest Adult Medical Drug Overdose Pediatric Overdose

P	Adult	Cardiac arrest: 3 Gram IV/IO slow IV push Calcium channel blocker overdose with hypotension and bradycardia: 3g (30 ml) slow IV/IO push. Dose may be repeated every 10 minutes to a total of 3 doses.
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P	Pediatric	60 mg/kg (0.6mL/kg) IV/IO over 5 minutes (max 3 grams). May repeat every 10 minutes to a total of 3 doses.
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Class:

- Electrolyte replacement, Antidote

Description of Use:

- Essential for the function and integrity of the nervous, muscular, and skeletal systems. Plays an important role in normal cardiac and renal functions, respiration, blood coagulation, cell membrane and capillary permeability. Assists in regulating the release and storage of neurotransmitters and hormones.

Pharmacokinetics: (Route: IV)

- Onset: Unknown
- Duration: Unknown
- Half-life: Unknown

Special Populations:

- Pregnancy Category: C
- Children: Extreme irritation, possible tissue necrosis or sloughing with IV. Restrict IV use due to small vasculature.
- Elderly: Oral absorption may be decreased.

Contraindications:

- Hypercalcemia, ventricular fibrillation.
- Cautions: Digoxin toxicity, dehydration, history of renal calculi, chronic renal impairment, decreased cardiac function.

Adverse reactions:

- Peripheral Vasodilation, local "burning" sensation, decreased BP