

FORMULARY

Calcium Chloride / Calcium Gluconate

Class of Drug	Electrolyte
Mechanism of Action	Increases cardiac contractile state (positive inotropic effect) May enhance ventricular automaticity Helps stabilize the cell membrane
Indications	Hyperkalemia Magnesium Sulfate overdose Calcium Channel Blocker toxicity
Contraindications	Hypercalcemia V-Fib during cardiac resuscitation Digitalis toxicity
Adverse Effects	Bradycardia, asystole, hypotension, peripheral vasodilation, metallic taste, local necrosis, coronary and cerebral artery spasm, vomiting.
Precautions	May worsen dysrhythmias secondary to digitalis May antagonize effects of Verapamil
Dosing/Administration	Adult: 500 – 1000 mg of 10% solution slowly IV/IO over 5 minutes; may repeat in 10 minutes; maximum 1 Gram dose Pediatric: 20 mg/kg of 10% solution slow IV/IO over 5 minutes; may repeat in 10 minutes; maximum 1 Gram dose
Pregnancy Category	Class C Uncertain safety – animal studies show adverse effect but no human studies exist