

**CALCIUM CHLORIDE**  
**(KAL-see-um KLOH-ryd)**  
**Calcium Salt**

**PHARMACOLOGICAL CLASSIFICATION:**

-calcium supplement

**THERAPEUTIC CLASSIFICATION:**

-agent for electrolyte balance  
-cardiotonic

**MECHANISM OF ACTION:**

-causes a significant increase in the myocardial contractile force and increases ventricular automaticity  
-calcium is essential for maintaining the functional integrity of the nervous, muscular, and skeletal systems, and for cell membrane and capillary permeability

**INDICATIONS:**

-hyperkalemia (dangerously high potassium level)  
-hypocalcemia (dangerously low calcium level)  
-calcium channel blocker toxicity

**CONTRAINDICATIONS:**

-patients taking digitalis (precipitates toxicity)  
-hypercalcemia

**SIDE EFFECTS:**

-CNS: tingling sensations, headache, weakness, syncope  
-CV: mild fall in BP, vasodilation, bradycardia, arrhythmias, cardiac arrest (with rapid IV administration)  
-vein irritation (with IV use)

**INTERACTIONS:**

-use with cardiac glycosides increases digitalis toxicity  
-calcium may antagonize the effects of calcium channel blockers  
-should not be mixed with bicarbonates, sulfates, or phosphates (precipitate formation)

**DOSAGE:**

-250-500 mg IV, may be repeated every 10 minutes

**SPECIAL INFORMATION:**

-extravasation can cause severe necrosis, sloughing, or abscess formation  
-be sure to flush the IV line between administrations of calcium chloride and sodium bicarbonate