

Subject: Scope of Practice/Procedure - ALS
Calcium Chloride 10% Solution

Associated Policies: 5402, 5421, 5428, 6504, 6505, 6507, 6516, 6539

- I. Class
 - A. Electrolyte.

- II. Indications
 - A. Hyperkalemia in renal dialysis patients.
 - B. Cardiac Arrest in the renal dialysis patients.
 - C. Hypocalcemia.
 - D. Calcium channel blocker toxicity.
 - E. Magnesium sulfate overdose or signs of toxicity..

- III. Therapeutic Effect
 - A. Increases serum calcium levels.

- IV. Contraindications
 - A. Absolute:
 - 1. Hypercalcemia.
 - B. Relative:
 - 1. Digitalis therapy (Use with caution, may cause ventricular fibrillation or bradycardia).

- V. Adverse Effects
 - A. Bradycardia.
 - B. Asystole.
 - C. Hypotension.
 - D. Nausea and vomiting.
 - E. Peripheral vasodilatation.

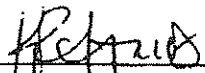
- VI. Administration and Dosage
 - A. Adult:
 - 1. Bradycardia due to Calcium channel blocker toxicity -500 mg of 10% solution, IV slowly over 60 seconds, may repeat once in 10 minutes, if necessary..
 - 2. Cardiac Arrest- 1 Gram IV push.
 - 3. Hypermagnesemia – 500mg over 2-3 minutes. Repeat as needed if CNS depressions persist.

 - B. Pediatric: 20-25 mg/kg (0.2-0.25 ml/kg) of 10% solution, IV slowly over 60 seconds.

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- VII. Special Information
- A. Precipitates if mixed with Sodium Bicarbonate (into Calcium Bicarbonate).
 - B. Potent local irritant at injection site.

Approved: 

Approved as to Form: 