

Calcium Chloride (10%)

By Jim Moss

Indications:

- Reversal agent for calcium channel blocker and beta-blocker overdose
- Hyperkalemia and hypocalcemia
- Magnesium sulfate overdose

Precautions/Contraindications:

- Not for routine use in cardiac arrest
- Do not push in same IV line as Sodium Bicarbonate, mixture will precipitate.
- Digitalis toxicity

Dosing: HYPERKALEMIA, HYPOCALCEMIA and OVERDOSE

ADULTS— 8-16 mg/kg IV slow infusion (Per ACLS)

PEDIATRIC— 20 mg/kg IV slow infusion (Per PALS)



Scenario: 55 y/o Male presents with altered mental status, per family. Family states that pt has had a “cold” and has missed his past two dialysis appointments. He receives dialysis on M, W, F, and today is Thursday. RR 30, HR 80, SPO2 90% RA, BP 92/74. Weight: 100 kg

Plan of care: Frequent Vital Signs

Oxygen Therapy

12-Lead ECG (confirm *hyperkalemia*-as shown by hyperacute T-waves)

Obtain SAMPLE history to rule out contraindications

IV access, X2 sites (preferably NOT in the same arm)

Albuterol 2.5 mg NEB (promotes cellular reuptake of potassium)

Calcium Chloride 1000 mg IV infusion, slow

Sodium Bicarbonate 100 mEq (dose: 1 mEq/kg) IV infusion

ED treatment: Insulin/D50 regimen, Kayexalate, possible emergent dialysis