Calcium Chloride 10% - 20.080

CLASS A: Hyperkalemia, Premedication for Antidysrhythmic Use CLASS B: Calcium Channel Blocker OD (Except Cardiac Arrest),
Hydrogen Fluoride exposure

PROTOCOL(S) USED IN: Cardiac Arrest, Cardiac Dysrhythmia Tachycardia, Hyperkalemia, Poisoning & Overdoses

PHARMACOLOGY AND ACTIONS:

Increases the force of myocardial contraction by initiation of myofibril shortening. The positive inotropic effects and vasoconstricting effects produce a rise in systemic arterial pressure.

INDICATIONS:

- 1. Hyperkalemia
- Suspected Calcium Channel Blocker OD
- 3. Hypotension prior to antidysrhythmic use
- 4. Hydrogen Fluoride exposure

CONTRAINDICATIONS:

Hypercalcemia and hypercalciuria (hyperthyroidism, Vitamin D overdose, bone metastases)
Patients on Digoxin

When administered in the same IV as Sodium Bicarbonate

SIDE EFFECTS AND NOTES:

- A. Extravasation of Calcium salts will cause necrosis of tissue. The IV should be secured and free blood return into the syringe should be checked 2-3 times during administration. If extravasation does occur, immediately stop administration.
- B. Administer slowly (no faster than 200 mg/min) and stop if patient complains of distress. Inject using a small needle into a large vein.
- C. Rapid injection of Calcium may cause vasodilatation, decreased blood pressure, bradycardia, cardiac arrhythmias, syncope and cardiac arrest. May produce coronary and cerebral artery spasms.
- D. One preloaded vial of 10 ml Calcium Chloride contains 1 g of calcium chloride salt (= 270 mg elemental calcium or 14 mEq calcium or 7 mmol calcium)

ADULT DOSING:

Premedication to Diltiazem (Systolic BP <90 mmHg): 500 mg slow IV/IO

Hyperkalemia: 1 g slow IV/IO over 5-10 minutes

Calcium Blocker OD: Contact OLMC - 1 g slow IV/IO over 5-10 minutes Hydrogen Fluoride Exposure: Contact OLMC - See Exposure Protocol

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PEDIATRIC DOSING:

Hyperkalemia, Calcium Channel Blocker Overdose: 20 mg/kg slow IV/IO over 5 – 10 minutes. Max dose 1 g - Contact OLMC for OD