

## CALCIUM CHLORIDE (CaCl) EMSAC JULY 2024

### **ACTION: Electrolyte**

- Increases calcium levels necessary for cardiac contractility.
- Stabilizes the myocardium in hyperkalemia or hypocalcemia associated cardiac arrhythmias.

### **INDICATIONS:**

- Hyperkalemia.
- Hypocalcemia with tetany.
- Calcium channel blocker overdose/toxicity.
- Hypermagnesemia.

### **CONTRAINDICATIONS:**

- Use with extreme caution in patients taking digitalis compounds.

### **POTENTIAL SIDE EFFECTS:**

- Bradycardia and asystole.
- V-Fib.
- Hypotension.
- Nausea and vomiting.

### **ADULT DOSE/ROUTE:**

- ⇒ **Hyperkalemia and calcium channel blocker overdose:** 500mg-1g IV/IO over 5 min IVP, may repeat in every 2-5 minutes (max dose of 1000mg) until ECG changes improve, up to a ~~Max dose~~ cumulative amount of 4g.

### **PEDIATRIC DOSE/ROUTE:**

- ⇒ 20 mg/kg IVP or IO up to 1g per dose over 5 min. May repeat in every 5 minutes up to a cumulative ~~Max dose~~ amount of 24g.

### **NOTES:**

- Ensure that you have patent IV line as calcium extravasation will cause tissue necrosis.
- Calcium precipitates in IV bag or tubing if mixed with sodium bicarbonate. Thorough 20cc IV/IO flush IV in between medications.